



# FACULTY REPORT 2022/2023

CREATING  
CHANGE  
TOGETHER



*“The certainty that our Caribbean people can create and shape genuine development if we work together for the good of all, enhancing our capacity to lead with new ideas and approaches.”*

This was the call to action and the challenge issued by newly inducted Campus Principal, Professor Rose-Marie Belle Antoine. It seems fitting therefore to review her first year in office through this lens.

As we navigate through the annual report, we witness the Campus’s response to this challenge. The vivid tableau on the cover—a kaleidoscope of colours and shapes—symbolises the unique contributions of each member of our Campus community as well as our stakeholders. It is a reminder that while individual pieces may vary in shape and hue when we come together – university, government, private sector, staff, students, alumni and the public, we can create something new and beautiful.

The placement of the half image on the cover also reminds us that sometimes you need to step back – or turn the page – to appreciate the full picture.

Cover Art Credit: Nicole Huggins-Boucaud using *Adobe Firefly*





## contents

Faculty of Engineering	<b>2</b>
Faculty of Food & Agriculture	<b>16</b>
Faculty of Humanities & Education	<b>36</b>
Faculty of Law	<b>64</b>
Faculty of Medical Sciences	<b>70</b>
Faculty of Science & Technology	<b>90</b>
Faculty of Social Sciences	<b>112</b>
Faculty of Sport	<b>130</b>
Centres & Units	<b>136</b>
ANSA McAl Psychological Research Centre	<b>136</b>
Centre for Health Economics (HEU)	<b>142</b>
Institute for Gender & Development Studies (IGDS)	<b>150</b>
Institute of International Relations (IIR)	<b>162</b>
Seismic Research Centre (SRC)	<b>175</b>
Sir Arthur Lewis Institute of Social & Economic Studies (SALISES)	<b>180</b>
Publications & Conferences (ONLINE ONLY)	<b>184</b>

A PUBLICATION OF THE MARKETING & COMMUNICATIONS OFFICE,  
THE UNIVERSITY OF THE WEST INDIES, ST. AUGUSTINE CAMPUS



# FACULTY OF ENGINEERING



Professor Bheshem Ramlal  
**Dean**

## Dean's Summary

In 2022/2023, the Faculty of Engineering accomplished significant achievements that aligned with Phase II: Revenue Revolution of The UWI's Triple "A" Strategies and its six strategic objectives established through collaborative strategic planning. These were embedded into Departmental and Faculty operations in teaching and learning, re-accreditation of postgraduate and undergraduate programmes, research and innovation, outreach, national, regional, and international engagement, staff development, professional service, safety, collaborations and alliances with industry, governmental agencies, and international universities, and curriculum and quality assurance reviews.

In 2022/2023, the Department of Chemical Engineering continued its strategic initiatives through outreach, training staff in the Virtual Learning Environment, presenting six patents and six technical reports, and providing public and professional services to industrial and governmental institutions. The Department has been developing a BSc part-time programme to increase full-fee-paying students, professional micro-credentialing and postgraduate short courses, and a tutor-tutee system to improve student experience and performance.

The Department of Civil & Environmental Engineering's outreach efforts have focused on continuing productive relationships with alumni and industry through its Industry Liaison Committees and student internships to train students jointly and aid in improving their output. The Department continued its initiatives despite financial constraints that delayed purchasing crucial equipment and losing some key academic staff. For the first time, the Department offered part-time programmes in the BSc Civil Engineering and Civil with Environmental Engineering, which assisted in maintaining and, in some instances, increased student enrolment in these programmes.

The Department of Electrical & Computer Engineering acknowledged its accrediting body's long-standing recommendation to review the external examiner framework for the undergraduate and postgraduate levels. This comprehensive process garnered positive feedback from all institutional tiers. The Department also pledged to advance postgraduate Artificial Intelligence (AI) programmes. In collaboration with the Dean's Office, the Solar EV Charging station installation was completed after a safety delay. The Department encouraged student engagement in technical events and university competitions/challenges. Three students participated in the FCB/UWI Internship for the first time in 2022/2023, and four students participated in Huawei's rebranded Seeds for the Future two-week virtual internship. **Mr Lane Amichan** won the Top Performing Students Award at the Graduation and Award Ceremony on 10 January 2023. Later that month, Huawei's Innovation Centre in Panama invited him to an ICT Learning Workshop at Huawei's Innovation Centre in Panama.

The Department of Geomatics Engineering and Land Management's staff received honours and recognition from The UWI, other tertiary institutions, international development organisations, and nongovernmental organisations for their local, regional, and international achievements. Staff remained active in public and professional service, leading top international and local professional societies. Their efforts continued to boost The UWI's international reputation within Geomatics/Geoinformatics, Urban and Regional Planning, and other academic, professional, and stakeholder communities. The Department introduced BSc part-time Geomatics Engineering and Land Management programmes in 2022/2023 and attracted Caribbean and Central American students.

The Department of Mechanical and Manufacturing Engineering (DMME) conducted research, teaching, and outreach following UWI's Triple "A" Strategy. Twenty-seven peer-reviewed journal articles and 27 conference papers were published by DMME faculty.

## Faculty Highlights

### *Staff Achievements*

#### *Department of Chemical Engineering*

**Professor Abrahams Mwasha** - Promoted to the rank of Professor effective 17 May 2023.

#### *Department of Electrical & Computer Engineering*

**Professor Sanjay Bahadoorsingh** - Promoted to the rank of Professor effective 01 February 2023.

#### *Department of Geomatics Engineering & Land Management*

**Professor Michelle Mycoo** - Gulbenkian Prize for Humanity 2022. Awarded to Co-Laureate, the Intergovernmental Panel for

# FACULTY OF ENGINEERING

Climate Change Scientists for Outstanding Action in Fighting against the Ecological and Climate Crisis on the Basis that Scientific Evidence is of the Utmost Importance for Accelerating Climate Action.

Selected by UNESCO-International Scientific Committee Foresight Expert Panel as one of 20 distinguished scholars across the global scientific community to contribute to UNEP's 2022-2023 Programme of Work and Medium-Term Strategy 2022-2025, Science-Policy Sub-Programme: Developing and Implementing a Strategic Foresight Trajectory.

## *Department of Mechanical & Manufacturing Engineering*

**Professor Kit Fai Pun** - Awarded the Hummingbird Medal (Gold) for Engineering, Education and Research (2022).

Ranked number one in Trinidad & Tobago among the Best Scientists for 2023 in the field of Business and Management

## **Dr Krishpersad Manohar**

Designated as lead academic researcher in the UNDP US\$5.152 million Global Environmental Facility (GEF) grant-funded project entitled "Promoting Energy Efficiency through the Development of Low Carbon Refrigeration and Air Conditioning Technologies in Trinidad & Tobago". The project was officially launched on 16 November 2022.

## *Student Achievements*

Department of Electrical & Computer Engineering

**Mr Lane Amichan** won the Top Performing Students Award at the Seeds for the Future Graduation and Award Ceremony on 10 January 2023. He was also selected to participate in an ICT Learning Workshop at Huawei's Innovation Centre in Panama later that month.

## *Department of Mechanical & Manufacturing Engineering*

The Department's MPhil candidate, **Mr Johnny Tui**, was a member of the duo that secured the second position in the University category of the Shell.ai Hackathon for Sustainable and Affordable Energy. The project involved the development of an optimal strategy for the replacement of EV charging stations.

The MME- Industrial Engineering Office sponsored four engineering students, namely **Mr Pradeep Mahair, Mr Jonathan Carrera, Mr Josiah Fitzallen** and **Mr Julien Stenson** to attend and complete the IISE-LSSYB (Lean Six Sigma Yellow Belt) Training.

The valedictorian for the Faculty of Engineering/Law in October 2022 was **Mr Reyshard Deokiesingh**, who graduated with First Class Honours from the Industrial Engineering programme offered by the Department of Mechanical and Manufacturing Engineering.

**Mr Ezekiel Yorke**, PhD candidate in Manufacturing Engineering candidate, was honoured with the Aldwyn L. Lequay Award for Exceptional Young Engineer 2023 from the Association of Professional Engineers of Trinidad & Tobago (APETT) in March 2023.

## Research

### *Department of Chemical Engineering*

Research continued in the different disciplines within the Department - Chemical and Process Engineering, Food Science and Technology, and Petroleum studies—resulting in 24 publications and over eight conferences and technical presentations from staff and students.

The Department collaborated with local, regional, and international institutions and agencies to seek scholarships for the Department's MPhil and PhD students in alignment with research to fit industry needs via internships and research projects, which were facilitated by joint academic and industry supervision and to share technical and short-course training capabilities with industry.

In Chemical and Process Engineering, the major areas of research were as follows:

- Energy Studies
- Corrosion Studies
- Membrane Technology
- Flow Assurance and Computational Fluid Dynamics
- Bio-fluid mechanics and Cardiovascular Technology
- Supercritical Fluid and Solvent Extraction
- Carbon Dioxide Utilisation
- Process Control and Optimisation
- Life Cycle Sustainability Assessments
- Waste Valorisation and Resource Circular Process systems.

Research collaborations with the Ministry of Food Production, the Ministry of Trade Industry Investment and Communication, the Cocoa Research Centre, VEMCO are ongoing in the Food Science and Technology Unit. The major areas of research were as follows:

- Food Preservation, Processing and Packaging
- Food Microbiology, Sanitation and Quality Assurance
- Food Product Development
- Nutrition, Health and Wellness
- Postharvest Technology
- Good Agricultural Practices to Facilitate Agro Processing
- Good Manufacturing Practices and HACCP
- Food Regulations and Compliance

- Culinary Development and Innovation for the Food Service Industry
- Techno-economic Studies for the Food and Beverage Industry

In the Petroleum Studies Unit, the major areas of research are as follows:

- Geochemistry, Mineralogy and Petrology
- Rock Mechanics, Rock Preparation and Thin Sections
- Unconventional Reservoirs: Heavy Oil, Shale Oil, Tar Sands and Gas Hydrates
- Sedimentology, Stratigraphy and Sequence stratigraphy
- Seismic Studies
- Biostratigraphy and Environmental Paleontology
- Oil and Gas PVT and Phase Behaviour Studies
- Carbon Dioxide Sequestration, EOR and CERM
- Reservoir Characterisation with Nano-Particle Technology Application
- Drilling Technology and Wellbore Stability

The Department is focused on the Commercialisation of its research in the areas of Environmental Sustainability Assessment, Corrosion Studies, Solvent Extraction, Membrane Technology, Waste Utilisation, Rock Mechanics, Heavy Oil, Carbon Capture, Storage and utilisation.

#### *Department of Civil & Environmental Engineering*

##### **Dr Lee Leon**

Danny's Enterprises Co. Ltd. – The University of the West Indies, Highway Engineering Laboratory provides laboratory testing services to Danny's Enterprises Co. Ltd. The test carried out are (a) Aggregate Materials, (b) Asphalt Concrete Mix Design, (c) Asphalt Mix QA/QC evaluation (d) Bitumen Stabilized Material (BSM) and Cement Stabilized Material (CSM) Evaluation. (On Going) TT\$55,305.

# FACULTY OF ENGINEERING

Principal Investigator for a project sponsored by CARIRI. Title of the project: *Asphalt Concrete - Crumb Rubber Mixture Design*. (On Going) Projects Cost - TT\$27,758.

Project Lead - UWI Engineering Institute training workshop (April 2023) under the Strengthening of Materials Laboratory Project sponsored by the Disaster Vulnerability Reduction Project, Department of Economic Development, Government of St Lucia. Title of the project: *Material and Testing Training Workshop*". Project Cost – US\$25,3700.

Project Lead of training workshop (Dec 2022) sponsored by the Highways Division, Ministry of Works and Transport, Government of The Republic of Trinidad & Tobago. Title of the project: *Pavement Materials & Performance Evaluation Training*.

## **Dr Deborah Villaroel-Lamb**

Future Earth: received funding of US\$300,000 for the project - *Engineering the Design of Nature-Based Solutions for Sustainable Development*. Role: Lead Investigator.

Irish Aid: Funding was received in the amount of €400,000 for the project - *Ecosystem-Based Adaptation and Digital Sensing Technologies to Enhance Climate Resilience and Empower Coastal Communities in Jamaica*. Role: Co-Investigator.

## *Department of Electrical & Computer Engineering*

The UWI COVID-19 Engineering Response Team was formed by the St. Augustine Campus Principal in March 2020. The team consisted of DECE staff with the aim of investigating ways in which The UWI can leveraged its engineering expertise to support the nation and the wider region in responding to the then-emerging pandemic. The team identified several critical areas with some of the following initiatives and systems realised and some still ongoing:

- *The Protect a Doctor Kit* and donations of video laryngoscopes aimed to provide doctors with the necessary PPE.
- *The UWI-Shield*: The UWI entered into licensing agreements to mass manufacture this face protection equipment.
- *The UWI-ARAD*: An air recirculation and decontamination unit that when independently tested achieved ISO clean room levels. Conversations are ongoing for the adoption of these units in NWRHA hospitals.
- *The UWI-Vent*: A high acuity medical ventilator to combat the existing global shortages.
- *The UWI-Sentry*: An autonomous disinfection robotic platform to reduce the rate of fomite-mediated transmissions.

The team was awarded an RDI grant of TT\$650,000 to fund three of the projects led by **Dr Craig Ramlal**. The Department would also like to recognise the appointment of **Mr Jeevan Persad**, who chaired the CARICOM's Regional Project Team to develop Regional Standards for Face Masks. The Department recognises the need to establish a medical engineering and manufacturing industry to insulate the region from future outbreaks. These pilot projects represent the initial steppingstone towards that ideal.

## *Department of Geomatics Engineering & Land Management*

### **Professor Bheshem Ramlal and Dr Raid Al-Tahir**

Developing a Methodology and Prototype for using Satellite Imagery, Unmanned Aerial Vehicle (Drones) and Remote Sensing Technology for collecting geospatial data to estimate and forecast crop production levels in Trinidad & Tobago, NAMDEVCO, Ministry of Agriculture, Lands and Fisheries, GORTT, **July 2022- June 2024, TT\$920,000**



**Professor Bheshem Ramlal**

A Geospatial Earth Observation Data Cube for the Caribbean (Digital Earth Caribbean) was launched. This work is being done in collaboration with the Mexican National Institute for Geography and Statistics (INEGI) and the Ministry of Foreign Affairs, Government of Mexico (SRE) to develop and implement a system hosted by the UWI St. Augustine with participation from all UWI Campuses and all countries in the Caribbean Region. July 2022 – July 2027. US\$400,000.

*Department of Mechanical & Manufacturing Engineering***Professor Boppana Chowdary**

- Fused Deposition Modelling (FDM) Process for part quality improvement
- Application of PLA as an Eco-Friendly Alternative to Petroleum-Based Plastics in Trinidad & Tobago
- Development of Empirical Models for the Material Extrusion Process
- Analysis of Part Defects in ABS Samples Generated from an Additive Manufacturing Process
- Design Complexity as a Driver for Additive Manufacturing Process Improvement
- Enhancement of Manufacturing Engineering Education in Trinidad and Tobago
- Effects of Process Parameters on the Flexural Strength of 3D Printed Plastics

**Professor Edwin Ekwue**

- Greenhouse technology and controlled environment agriculture
- Effect of machinery traffic and soil amendments on soil erosion and cultivation
- Effect of organic and other amendments on soil physical and engineering properties

- Design and Development of equipment for conducting experiments on soils.

**Professor Krishpersad Manohar**

- Novel designs of wind turbine systems
- Thermoelectric Air conditioning systems
- Replacement of traditional refrigerants in air conditioning systems
- Wave Energy conversion systems

**Professor Kit Fai Pun**

- Leader, Technology Transfer and Management Research Group,
- Leader, Industrial Engineering and Management Research Group
- Collaborative (Book) Project: Sustainable Supply Chain Design and Operations for Small Island Nations Ref. CRP.2.NOV.17.5 (1): 2021); *Value Engineering and Management Practices in Industrial Enterprises*: Preparing for a Casebook Publication (commenced August 2021)

**Dr Anthony Adeyanju**

- Research in Biomass Gasification and PYROLYSIS using local biomass indigenous to produce SYNGAS/ BIOGAS that could replace natural gas for downstream petrochemical industries.
- Research in wind Energy Technologies, such as perpendicular wind turbines, dual wind turbine generator systems, and bladeless windmills (VORTEX TYPE).
- Research in Solar Thermal Energy Technologies such as automated solar lawn mowers.
- Research in Energy, such as electric harvesting tiles.
- Research in Refrigeration and air conditioning.

# FACULTY OF ENGINEERING

## **Dr Richard Bachoo**

- Flow-induced vibration in Process Piping systems (CRP.3.MAR17.3(2))
- High-frequency structural vibration
- Vibration of composite materials

## **Dr Jacqueline Bridge**

- Shape Memory Alloys for vibration mitigation.
- Nonlinear dynamics in engineering structures
- Mathematical modelling and analysis of wave energy conversion systems.

## **Dr Ruel Ellis**

- E-Learning Curriculum Design, Development and Implementation.
- Protected Agriculture Systems Design and Development

## **Dr Chris Maharaj**

- Alternative use of waste materials (e.g. plastic and tyre waste)
- Mechanical design optimisation (mechanical and electromechanical systems)
- Failure analysis of mechanical and structural components
- Life assessment of components subjected to severe conditions.
- Innovation management
- Student motivation
- Flipped classroom methods.

## **Dr Renique Murray**

- Energy harvesting
- Biofuels
- Development of Agricultural Machinery

## **Dr Cilla Pemberton**

- Value Stream Mapping of Indigenous Industries
- Lean Healthcare
- Engineering Entrepreneurship Education

## Outreach & Collaborative Initiatives

The Faculty of Engineering participated in several outreach activities during the 2022/2023 academic year. Between February and May 2023, the Faculty visited the following schools: which included school visits to secondary schools:

- Iere High School, Career Day, Siparia
- Trinity East College Career Day, Trincity
- St. Charles High School Career Day, Tunapuna
- Tranquility Government Secondary School, Woodbrook, Port of Spain
- Bishop Anstey High School, Port of Spain

## *Department of Chemical Engineering*

**Professor Raffie Hosein** served as a judge in the SPE student paper contest and Petro-bowl competition and reviewed abstracts for the student paper contest, student chapter annual reports competition and abstracts for SPE conferences and served as moderator in the SPE student paper contests. He also served as a member of SPE eMentoring programme.

## Research Collaborations

- UWI and the NGC – Corrosion project with support from the National Gas Company
- UWI/SHELL and Penn State University research project on Gas Hydrates, scholarship support from SHELL US\$30,000 annually for three years to a PhD student
- UWI/SHELL Research Collaboration on Well Bore Stability during Drilling Operations
- UWI/UTT/UT - MoU signed to conduct a research project

on Carbon Capture and Storage: Developing a National Carbon Capture and Storage Programme in Trinidad & Tobago

- Environmental Sustainability Assessment with Proman Limited (Trinidad & Tobago)
- Key Performance Indicators for Greater Sustainable Development within Current Mega- Methanol (MM) Production in collaboration with Proman Limited (Trinidad & Tobago)
- New technological advances in synthesis gas sustainable operations of the global methanol industry with Johnson Matthey, UK
- ODPM partnership with the Petroleum Studies Unit in monitoring the Piparo Mud Volcano
- University of Guadeloupe - Research Project on waste utilisation.
- Research on Membrane Technology with support from Blue Mountains
- Research on Solvent Extraction - Funding for Equipment provided by the Ministry of Energy and Energy Industries (MEEI)
- Research on Rock Mechanics - Funding from MEEI, bpTT, Faculty of Engineering, Department of Chemical Engineering, TT\$3.0MM

The Student Chapters of the Society of Petroleum Engineers (SPE), American Association of Petroleum Geologists (AAPG), Society of Exploration Geophysicists (SEG), Geological Society of Trinidad & Tobago (GSTT), and the IChemETT were very active, participating in clean up campaigns, charity drives, hosting of technical presentations and conducting outreach activities. The students from the Petroleum Studies programme participated in the Imperial Barrel Awards, the PetroBowl competition and presented technical papers at regional and international conferences.

## Strategic Review

### Access

During the period under review, the Faculty hired a consultant to assist staff with creating online accessible postgraduate courses. The faculty also increased its engagement with the Engineering Student Society to better understand and act on students' challenges and needs. Many students enrolled in the Pre-Engineering programme, which occurred alongside an increased number of part-time programmes being offered. Additional human resources were sought to help with outreach activities for student recruitment as an improvement in engagement and student interest was noted. The faculty also was able to scrutinise all programme and course reviews through the Faculty Curriculum Committee.

The Department of Chemical Engineering (DCE) successfully carried out the self-financing UWI MSc Petroleum Engineering programme, first offered at the University of Guyana on August 31, 2019.

The Department is now fully capable of offering online courses and programmes, and provide remote access to software training, virtual labs and field trips. The Chemical Engineering instruments lab, the Rock Mechanics Facilities, were able to provide services to industry and other faculties/ departments. Other courses and programmes were offered during the period under review. These included short courses on software training, lab facilities, and workshops on how to use basic chemicals, simulators, and instruments for product scale-up. FSTU was particularly successful in implementing the Diploma as an exit route.

# FACULTY OF engineering

The DCE's website was updated to highlight its accomplishments and services that can be offered to various stakeholders. Orientation and Academic Advising were all conducted online, while delivery and assessments (labs, field trips, and internships) were changed to face-to-face and traditional final assessments and course work, although students had the option to use simulator remotely for lab and research assignments. The MSc programme in Chemical & Process Engineering was conducted in blended mode. Learning Outcomes (LO) were delivered as per the accreditor's requirement in face-to-face mode.

As recommended in a report presented to the AQAC, Nov 2022 the Department worked on par with the recommendations of the Accreditation and Quality Assurance review. A virtual re-accreditation visit was conducted in November 2022, and Chemical & Process got accreditation up to 2026. The Institute of Food Science and Technology (IFST), UK, gave accreditation to the MSc Food Science and Technology programme.

A number of upgrades were done during the period under review. With regards to laboratories, facilities in Block 8: Wet Lab, Analytical and Science of Materials Lab and Block 9: Food Science and Technology Lab were upgraded and five Rooms in Block 9 were refurbished to provide offices for Research Assistants. With regards to the curriculum, updates were made to course outlines, and course content was adjusted to include sustainable, renewable and hydrogen energy, green methanol and green ammonia, carbon capture, utilization and storage (CCUS), machine learning and artificial intelligence.

Within the area of improving the quality, quantity and impact of research, innovation and publication, the Department of Chemical Engineering continued the Lunchtime seminar series hosted by the Centre of Excellence (Research) Committee,

and also hosted the IChemE TTMG Webinar - Process System Engineering: A Flexible Approach by Dr Maria Papathanasiou, Imperial College, London. Six students and staff members made presentations at international conferences and more than twenty technical papers were published in international peer reviewed journals with high impact factor.

The Department continued to encourage collaboration among staff to increase the number and quality of research output, while looking for opportunities to pursue joint research with other universities/ institutes. Funding was received from the Ministry of Energy and Energy Industries, bpTT, Johnson Matthey, PowerGen, and SWMCOL. The DMME published 44 journal articles, six book chapters and 28 peer-reviewed conference proceedings papers, and Professor Kit Fai Pun presented at the 1st FOE Research Cluster Seminar that was held at the Faculty, on behalf of the IEM group. At the DGELM, staff members were involved in high-level international research initiatives, such as the Intergovernmental Panel on Climate Change Special Report on the Ocean and the Cryosphere

The DECE continued to review its programmes with a view to delivering modules online to provide greater access to Caribbean students, working nationals enrolled in graduate programmes, and international students. At the DCEE, undergraduate programmes were revised to incorporate BSc Part-time degree in Civil and Environmental Engineering. This made the programmes flexible for qualified students who held full-time jobs. The MSc programme in Coastal Engineering was also restructured into blended delivery format to increase student enrolment. The PG course, Performance-based Seismic Design was updated to include 23 30-minute videos for teaching and learning.

During the reporting period, the Department also initiated an RDI Project on Sustainable construction solutions through municipal solid waste recycling in Trinidad & Tobago. The DECE submitted several reports during the period under review. These included its Quality Assurance Action Plan Report on 07 June 2022, IET Annual Report 2020/2021 on 03 January 2022, and its Semester I & II 2020/2021 IET COVID-Impact Report on 19 March 2022, and 13 August 2022, respectively. The DECE also submitted its Quality Assurance Review Action Plan One Year update to AQAC in January 2023. The IET Monitoring Review was held in April 2022 and both UG and PG programmes received a two-year Accreditation extension to 2024/2025. The DGELM completed the curriculum review and renewal of the BSc Geomatics Engineering and BSc Land Management (Valuation).

The DECE revised the BSc programme to be AHEP 4 to satisfy IET Accreditation Compliance and also submitted a budgetary request for the post facto review for its courses for the academic years 2019/2020, 2020/2021 and 2021/2022 in the total amount of US\$31,950.00. Twelve chairs for the Power Electronics Lab, 17 Laptops for the Department, 36 computers for the Lab, 14 computers for Staff, and 26 Oscilloscopes were all purchased.

Several challenges were encountered during the period. These included the uncertainty surrounding the funding of a 4th year (GATE and CGC) of the revised programme for CEng status, as well as the issue of understaffing. Understaffing results in a smaller number of faculty to share administrative work resulting in less time for research. Lack of funding for Postgraduate students, Research Assistants etc., meant that full time research degrees were not feasible for many prospective research students from a financial standpoint.

However, a number of grants were awarded for the development of COVID-19 related projects. These were, the RDI Grant TT\$650,000, NGC COVID-19 special project fund: TT\$60,000, Ministry of Health: \$100,000, and a Canadian High Commission grant for new servers and high processing computers to enable/facilitate intensive simulation and research. TT\$100,000.

The DMME engaged in in-person marketing of the MSc Engineering Management programme. Consequently, enough suitable applicants were gained in order to deliver the programme in the 2023/2024 academic year after a hiatus of one year. Foreign applicants were also attracted to the MSc Engineering Asset Management programme, although for most programmes some qualified candidates were unable to take up their admission offers because the MSc programmes were primarily taught in a face-to-face modality. The DMME is working on changing this to a blended format. Poorly maintained infrastructure (audiovisual equipment; air conditioning; whiteboards and screens) negatively affected the student experience, which has been often noted in student evaluation forms.

The delivery of a training workshop for the IICA Delegation to Trinidad & Tobago over the period 4-10 June 2023, was done by the DGELM, with the total payment for designing and delivering the training is TTD36,500.

### **Alignment**

During the period under review, the UWI Engineering Institute acted as the Administrator for the South Oropouche Flood Mitigation Project supporting the Latin American Development Bank (CAF). The UN Adaptation Fund approved the Concept Note (CN) for the project "Multi-sectoral Adaptation Measures to Climate Change in the South Oropouche Basin for River



# FACULTY OF engineering

Flood Relief". The CN was prepared by a UWI/Viridia projects collaboration. Work has begun to develop the full proposal for the project, which is worth USD10M which will be executed by the Engineering Institute /STACIE.

At the DECE, conversations on the bMobile-UWI Innovation Laboratory powered by Huawei MOU were reopened between The UWI, Bmobile and Huawei as the MOU has since expired. Topics discussed included intended funding and commitments, equipment obsolescence, and managing expectations and reputational damage to The UWI. The Community Service Learning (CSL) programme successfully continued during Semester II 2022/2023 but the delays with the acquisition of parts for project execution led to delays with final submissions and inevitable Semester I registration challenges.

The Department of Chemical Engineering updated their website to highlight their programmes, achievements, opportunities available to students, and services that can be offered to stakeholders. Several projects were considered and undertaken. These included the research project, *Proman -UWI Waste-to-Bio-resource Supply Chain Analysis Within Trinidad & Tobago* between Proman Global Development LLC and The UWI, and a *Sustainable Optimisation of Energy Pathways* project to be undertaken at PowerGen. A decarbonisation within the power sector project by way of supplying clean energy to the national grid was also pursued. The DCE also had a complement of students and staff at competitions, conferences, and contests. Staff were present at the AIChE, IChemE, and European Chemical Engineering Soc, while students' participation in the SPE PetroBowl competition, paper contest and Imperial Barrel Award.

The University of the West Indies, Highway Engineering Laboratory provided ongoing laboratory testing services to Danny's Enterprises Co. Ltd. The tests carried out were (a) Aggregate Materials, (b) Asphalt Concrete Mix Design, (c) Asphalt Mix QA/QC evaluation (d) Bitumen Stabilized Material (BSM) and Cement Stabilized Material (CSM) Evaluation at the cost of \$TT55,305. A detailed review of twenty-five (25) courses was carried out at the DCEE for the new two-year B.Tech programme for the University of Belize. Review instruments were completed for each course as well as signing of the official CSRs.

At the DCEE, a Floor Assessment for Intended Manufacturing at Block 11, and a Post-Fire Assessment of the Lloyd Brathwaite Student Administration Building were undertaken. Research and innovation at the Department involved the development of laboratory equipment for research and partnership in Concrete Technology, Fracture Behaviour of Bitumen Stabilized Material Using the SCB Test, and the Design and Construction of a Prototype for a New Hurricane-resistant Roof; Proof-of-concept testing of new types of earthquake-resistant walls. Research on the impact of agricultural practices on river water quality in Guanapo, was also done in collaboration with the Ministry of Agriculture, as part of a Material Transfer Agreement (being) formulated with UWI. The Department received a Future Earth Grant Award of US\$300,000.00 for research titled, "Engineering the Design of Nature-Based Solutions for Sustainable Development." Staff at the DCEE made a technical presentation at the 11th International Road Federation (IRF) Caribbean Regional Congress, June 2023, Paradise Island, The Bahamas.

**Dr Renique Murray** of the DMME received a TT\$99,475 to provide a "Preliminary Feasibility Assessment of Methanol Use as a fuel for Trinidad & Tobago" from Methanex & the National Energy Corporation of Trinidad & Tobago. Within the DMME, most commercially viable projects require the input of technical staff. However, the current compensation mechanisms for them serve as a disincentive to involvement.

Alumni in the Institute of Surveyors of Trinidad & Tobago and Survey companies continue to sponsor prizes and awards to the DGELM to the tune of \$10,000 per year. Alumni often continue to form part of the Industrial Liaison Committees however, economic challenges in the society affected the ability of the alumni to continue to provide financial support but engagement in kind continued

### Agility

The Faculty secured consulting projects through the Engineering Institute that would provide additional income. Other areas of income generation included the Department of Chemical Engineering's delivery of the MSc Petroleum Engineering programme at the University of Guyana (UG). This is a self-financing programme which requires a minimum of ten students at the cost of US\$8,400 per student per year. The Department also received TT\$3.0 M from the MEEI for the operations of the BSc Petroleum Geoscience programme, and to offer 30 scholarships and incentives to students in the BSc and MSc programmes in the Petroleum Studies Unit; TT\$1M from bpTT for the operations of the BSc Petroleum Geoscience, and MSc Reservoir Engineering programmes and to offer scholarships for three BSc Petroleum Geoscience students at a value of TT\$30,000 each. Funding support of US\$150, 000 from Proman Limited (Trinidad & Tobago) for the Dennis Patrick MHTL Chair in Petroleum Engineering was also received by the

Department. The DCEE ensured that its activities contained cost/increase efficiency with a view to using less than the budget annually.

During the review period, members of the Academic Staff at the Department of Chemical Engineering participated in Course and Programme Development, Course Delivery and Course Assessment, Using myeLearning for Alternative Assessment, Moving from Face-to-Face to Online Teaching. Technical and Administrative staff continue to successfully attain Associate, Bachelors and Graduate Degrees. Academic and ATS staff continue to attend Academic Advising, Management, and CETL Workshops/Seminars. Administrative Staff participated in in-house courses/workshops that included Academic Advising, Create your Professional Image, Minute Taking, Records Management (Advanced), How to Become an Effective Secretary, Banner (Student), Banner (Finance), eRecruit, Parenting during COVID-19, and Managing Your Health During COVID-19.

During the 2022/2023 period the Department of Chemical Engineering developed short courses, software training programmes, and offered lab and research facilities to provide a service to stakeholders. The Department is now fully capable of offering online courses and programmes, academic advising, remote access to software training, virtual labs, and fieldtrips. Efforts at the DCEE are ongoing to recruit three academic staff for the three vacancies approved for the Department. Ongoing action plan on internal Quality Evaluation Review as well as preparation for the next cycle of internal review. Advertising for the Posts of Professor Electrical and Computer Engineering, Senior Lecturer/ Lecturer in Control Systems, and a Grade 9 Administrative Assistant were posted at the DMME but were not without challenges.

# FACULTY OF ENGINEERING

At the DECE COVID-19 projects are ready to be commercialised. With partnerships with officials from the MoH, prototypes were developed and tested with invention disclosures completed for: Air Recirculation and Decontamination unit (ARAD), and the UWI-V+ continuous positive airway pressure device. An invention disclosure form was submitted for ARAD, however additional funding is needed for manufacturing the product. Challenges to these included issues spending funds for simple materials for development of prototypes, from hardware and electronic stores, alongside a lack of autonomy with funds. The DECE also updated the revision sessions for CCREEE on Basic Demand Projection, Basic Demand Side Management 2021.09.28 and Grid Modelling 2021.10.26. Participants involved were from key organisations across CARICOM. The DMME's administrative staff participated in the CRM Recruit Training. This enabled a swifter turnaround time between an applicant beginning the MSc admission process and final decision, as they were able to make direct contact with the prospective students to assist with any uncompleted tasks.

## Distinguished Visitors

### **Dr Ricardo Baeza-Yates**

Director of Research, Institute for Experiential AI  
Northeastern University, Bay Area, Responsible Artificial Intelligence (AI),

### **Prof Rickey Dubay**

Professor of Mechanical Engineering & Director of Graduate Studies  
University of New Brunswick (UNB), Canada

### **Professor Ravi Droopad**

Materials Research for Next-Generation Device Applications  
Fellow of the Institute of Electrical and Electronics Engineers

### **Professor Stephan Mai**

University of Mainz, Germany

### **Professor John Yilin Wang**

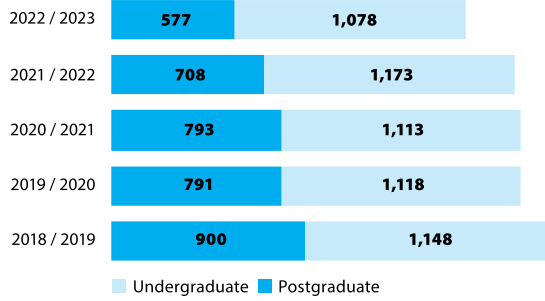
Associate Professor of Petroleum and Natural Gas Engineering  
Director of 3S Laboratory  
Pennsylvania State University

### **Mr Irwin Williams**

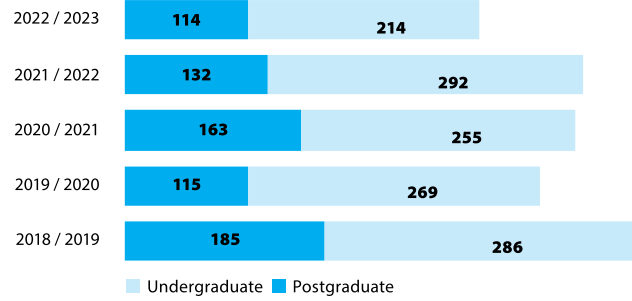
Unlocking a New World of Learning with ChatGPT

## Enrolment & Graduation Trends

### Enrolment Trends – Engineering



### Graduation Trends – Engineering



# FACULTY OF FOOD and AGRICULTURE

## Dean's Summary

In the reporting year, 2022-2023, the Faculty of Food and Agriculture (FFA) produced work of the highest calibre through its many initiatives. The FFA, through its Departments of Agricultural Economics and Extension (DAEE), Food Production (DFP), Geography (DG), and its Business Development Unit (BDU), worked tirelessly to (among many other initiatives) promote the Faculty through outreach, make improvements in its curriculum, and forge partnerships with new stakeholders. The Faculty led the Caribbean Universities in formulating the Consortium of Universities of CARICOM involved in Agricultural Education and Research (CUCAER) to implement projects in order to lower the CARICOM Food Import Bill by 25% by 2025. During the reporting period the Faculty also drafted a memorandum of agreement (MOA) between CUCAER and

Professor  
Mark Wuddivira  
**Dean**





the CARICOM Private Sector Organisation (CPSO), launched the Faculty Alumni Association in July 2023, created the Terms of Reference and received approval for the Faculty's Advisory Board, launched the Faculty's Market Place in March 2023, reorganised and revitalised the Faculty's farm at Orange Grove to ensure ongoing crops to service the Market Place and planned and executed the Faculty's TechAgri Expo which had not been held since 2019.

In the reporting year, the FFA through a Service Level Agreement with the Ministry of Youth Development and National Security (MYDNS) successfully taught and graduated the first cohort the professional certificate (CPE) in Shade House Production and Management to 100 youths selected by the MYDNS and specially admitted to the University. The proposal to train 100 youths in Aquaculture was developed and approved during the reporting period. The impactful and lucrative Global Environment Facility (GEF) Projects on fisheries worth 10 million US Dollars was started and is underway, the new and some existing teaching staff members completed PG Certificates in University Teaching and Learning, again produced impactful publications, continued to engage the Faculty in fun, team-building activities, all while ensuring that its students were facilitated and successfully graduated.

The FFA graduated 87 undergraduate students, 11 of them with First Class Honor Degrees.

A total of 40 postgraduate degrees were awarded in the following areas:

- **PhD - 4** (PhD Livestock Science, PhD Soil Science, PhD Agricultural Economics, PhD Agricultural Extension)
- **MPhil - 2** (MPhil Human Ecology, MPhil In Geography)

- **MSc - 13** (MSc Agricultural Economics, Food Safety and Quality, Livestock Science, Soil Science, Tropical Crop Protection, Agri-Food Safety and Quality Assurance, Tropical Animal Science and Production, Tropical Crop Protection, Value Addition for Food and Nutrition Security, Food Security).
- **PG Diploma - 21** (Postgraduate Diploma in Agri-Food Safety and Quality Assurance, Postgraduate Diploma in Pesticide Technology and Management, Postgraduate Diploma in Pesticide Technology and Management, Postgraduate Diploma in Tropical Animal Science and Production)

The FFA's strategy focused are aligned to The UWI Strategic Objectives to promote Phase 2 of the Triple A Strategic Plan (2022-2027), that of Revenue Revolution through non-traditional programmes, blended delivery of its Master's programmes, and professional short courses.

Additionally, through the Business Development Unit, eight courses were offered for the reporting period including Aquaponics, Hydroponics 1, Hydroponics 2, Broiler Rabbit Production and Management, Home Gardening and Crop Protection, Nutrition Fundamentals, and a second cycle of Hydroponics 1. The Sugarcane Feeds Centre, Ministry of Agriculture and Fisheries sponsored nine members of their staff to an Aquaponics Training Session which was held over five days, intermittently. In addition to that group another person registered, totaling 10 people, for this special training session where they visited the aquaponics setup at the UWI UFS on more occasions than the standard Aquaponics sessions. Two more courses came on board for the first time this year, Rabbit Production and Management and Nutrition Fundamentals.

# FACULTY OF FOOD AND AGRICULTURE

The FFA is particularly proud to have launched the FFA Market Place to The UWI community and general public. There was continued income generation through the Agro-Environmental Services (AES) in areas such as Plant Health Diagnostics, Food Lab Testing and Animal Nutrition and Feed Analysis which were made available to stakeholders such as farmers, gardeners, various industries, land managers, commercial nurseries, Agro-processors, environmental firms and agencies.

The FFA also provided support services to MYDNS Youth Homestead Programme to assess soil health and nutrition and also engaged in face to face and online and development training programmes for staff and students in collaboration with Sofia Technical University (Bulgaria) and China.

As we look toward the upcoming academic year 2023-24, the FFA will continue its collaboration with the MYDNS aimed at delivering training to approximately 100 youth in aquaculture production at the University Field Station (UFS). Similarly, for the Shade House Programme another cohort of 100 are expected to join in the same academic year. Plans are also underway toward the creation of a Climate-Smart Hub at the University Field Station.

## Graduation

### *New Cohorts*

The Faculty celebrated the first cohorts to graduate from the following programmes:

- **Postgraduate Diploma in Pesticide Technology Management** – 14 (seven with Distinction)
- **MSc Food Security** – 4 (three with Distinction)

### *PhD Awards*

**Dr Ronen Francis, PhD Soil Science** – Successfully completed and defended his PhD Oral of *“Slaking Sensitivity and Hydraulic Properties of Humid Tropical Soils as affected by Liming and Residue Management”* on 09 September 2022. Supervisor: Professor Mark Wuddivira.

**Dr Omardath Maharaj**, PhD Agricultural Economics – successfully completed his PhD Oral Defence of *“Deepening the Understanding of International Trade Relations and Flows: Advancing Methods and Techniques for Trade Policy”* on 13 September 2022. Supervisor: Dr Govind Seepersad.

**Dr Jeet Ramjattan**, PhD Agricultural Extension - successfully completed his PhD Oral Defence of *“Dynamics of Social Media Use: Building Social Capital Among Agricultural Communities of Practice in Trinidad & Tobago.”* on 23 November 2022. Supervisor: Professor Wayne Ganpat.

**Dr Andell Edwards**, PhD Livestock Science - successfully completed his PhD Oral Defence of *“Nutritional Assessment Of Leucaena Leucocephala And Gliricidia Sepium Pods As Protein Supplements For Barbados Black Belly Rams.”* on 19 January 2023. Supervisor: Dr Martin Hughes.

**Dr Leann Metivier**, PhD Soil Science - successfully completed his PhD Oral Defence of *“Nitrous Oxide Emissions in a range of Agricultural Soils Receiving N Fertilizers.”* 12 December 2022. Supervisor: Dr Gregory Gouveia.

## Anniversaries, Achievements & Awards

### Alumni

**Ms Lakeyia Joseph**, a past BSc Agribusiness with Entrepreneurship student, received the National Youth Leader of the Year Award in Dominica.

**Ms Nandani Samuel** was awarded as a Youth Champion in Health and Wellness at the Trinidad & Tobago National Youth Awards 2022. She is a former BSc Human Nutrition and Dietetics student. She also graduated from our Diploma in Institutional and Community Dietetics and Nutrition programme in 2018. She is a member of SAND and is a registered Dietitian.

**Ms Milagro Heredia**, past student BSc Tropical Landscaping and Agribusiness 2016 featured in article, Milagro Heredia – Leader In Landscaping At Sandals Grande, Milagro Heredia – Leader In Landscaping At Sandals Grande - St. Lucia Times (stluciatimes.com)

## Students

### Scholarship Awards

**Ms Tynessa Gay** (Technical Assistant and PhD Agricultural Economics candidate) was awarded an internship as part of the 2022 cohort of the McGill-UWI Queen Elizabeth Scholars (QES) Climate Adaptation and Resilient Communities: Policy, Research and Practice programme in partnership with the University of the West Indies, her participation was deferred to 2023.

The McGill-UWI Queen Elizabeth Scholars Scholarship programme, funded by Universities Canada, builds on over 30 years of close inter-university collaborations between McGill University and the University of the West Indies (UWI) to implement a scholarship programme focused on a critical current challenge to Canada, the Caribbean region and globally. Ms Gay carried out work over a three-month period (June – September 2023) at the McGill University, Canada on the *“Expected and Unexpected Consequences of Government Policies to Reduce Flood Risk in Quebec”*.

**Ms Sunshine De Caires** (PhD candidate in Tropical Earth and Environmental Science) was an award recipient of the *Emerging Leaders in the Americas Programme* (ELAP) scholarship paid for by the Canadian Bureau for International Education on behalf of the Department of Foreign Affairs and International Trade Canada. This scholarship was provided on academic merit and Ms De Caires was a Graduate Research Trainee for six months (February to July 2022) at the University of Saskatchewan, Saskatoon, Canada.

## Academic Highlights

### Student Interns from Foreign Universities

The Faculty played host to two interns from universities in Canada and France:

- **Ms Kervelle Baird** from Université Côte d’Azur, Nice, France: March to August 2023 - Disaster Risk Management Policy Assessment and water resource management
- **Ms Vanessa Nichols** from McGill University, Canada: May to August 2023 - Insect farming and feed policy assessment

# FACULTY OF FOOD AND AGRICULTURE

## Special Prizes

Twenty-seven special prizes to students who had produced an outstanding performance over the course of the year. In this review period, three of those prizes went to **Mr Xavier Joseph**, including the prize or the best performance in the BSc Agriculture over the three years of the programme. His awards are as follows:

- The Professor Richard A.I. Brathwaite Prize Awarded for the best performance in the *BSc Agriculture Year III*
- The Frederick Hardy Prize Awarded to the year III student who obtains the *highest marks in courses taken in Soil Science* at the levels II and III examinations including the Project
- The Principal's Prize Awarded for the best performance in the *BSc Agriculture over Years I to III*

## Research

### Research Grants & Impactful Research Activities:

**Project: "To support the improvement and/or development of national school feeding policy instruments for Suriname and St. Vincent and the Grenadines"**

The Cost-Benefit analyses carried out suggest that the developed Action Plans for the SFPs in Saint Vincent and the Grenadines and Suriname will provide positive net benefits to the populations of these CARICOM Member States and therefore the fiscal expenditures to implement the Action Plans in the Road Maps are justified.

The study developed a methodology for the formulation of a policy framework for school feeding programmes which could gain wide applicability worldwide.

The webinar "*School feeding governance, policy and legal frameworks*" held on 6 June 2023, was a success and provided Caribbean practitioners with additional insights into school feeding governance and policy as well as an opportunity to share knowledge and good practice in school feeding.

The study again focused attention on the absence of a functioning national SFP in Suriname. What the study also discovered was the urgent need for such a national SFP especially as expressed by parents and staff of the schools in the project survey.

For St. Vincent and the Grenadines, the project survey of increased the awareness of the farmers of the opportunities for supplying food products to the SFP and many farmers indicated their willingness to supply the SFP.

For St. Vincent and the Grenadines, the project promoted intersectoral collaboration of the different institutions. It also highlighted the need for the improved functioning of the national school feeding programme. The study facilitated heightened awareness of the impact of different institutions on the SFP as well as highlighted the impact on the direct beneficiaries.

**Project: "Addressing the Climate-Change and Poverty Nexus"**

The project Addressing the Climate-Change and Poverty Nexus was conducted over the period 01 September – 31 October 2022. It involved a combination of focus groups and workshops for members of the Orange Valley community to generally increase knowledge of the interactions between poverty and climate change as well as explore vulnerabilities that the residents deal with in the conduct of their livelihoods.

Emanating out of the project were interesting findings. Poverty from a multidimensional perspective can be said to exist, particularly in relation to health and education. Due to the volatility of income from fishing, which is related to volatility in fish catch, there is transient poverty where the household is mostly reliant on earnings from the sale of fish. However, the community, which possesses a high stock of social capital has an interesting adaptation strategy of preserving (freezing) fish stocks from high catches to cope when fish stock is low, therefore, leading to a somewhat steady supply of fish. Another interesting finding was that the major source of climate change information received by the youth is from social media. Therefore, any future communication efforts to this demographic should take these findings into account.

Key impacts that this project had on the community would be greater permeability of the climate-change and poverty nexus concept which may assist in the formulation of any future improvement projects in the community.

- Services for Market-preferred sweet potato varieties research activity under the CARDI's project "Regional sweet potato industry value chain enhancement and technology transfer" (US\$78,400.00). Project lead Dr Oral Daley.
- Insect Farming/IBR Facility to be established at the UFS funded by FAO (US\$63,000.00).

**Project: Government of Dominica: "In Service Strengthening of Extension Officers in Climate Resilience Practices for Improved Agricultural Production"**

The project objective was to Improve the knowledge of Extension Officers in restoring agricultural livelihoods and promoting climate resilience through training and capacity building of extension service providers.

More specifically:

1. To train extension providers in all aspects of Sustainable Agricultural Production with ONE MODULE on Crop Production and ONE MODULE on Animal Production
2. To improve Animal and Plant Health to new and emerging Pests and Diseases with ONE MODULE on Agricultural Health and Food Safety including Animal and Plant Quarantine.
3. To enhance extension communication tools, processes and networking capacity to enhance beneficiaries' behaviours and attitudes towards service providers in ONE MODULE
4. To empower extension service providers to meet the challenges of climate change and contribute to building sustainable agricultural enterprises in promotion of Salt and Soil Management Principles in ONE MODULE

**Project: Caribbean WaterNet and CapNet UNDP - "Conservation and Innovation: Changing the Regional Water Paradigm,"**

Caribbean WaterNet partnered with GWP-C and jointly hosted the 2nd virtual Caribbean Science Symposium on Water (CSSW) on 21 and 22 March 2023. The overall theme of the 2023 CSSW is "Conservation and Innovation: Changing the Regional Water Paradigm," and it will focus on sharing research outcomes and bridging the gap between science and policy for the water sector. This second Symposium builds on the first by focusing on conservation and innovation priorities for the regional water sector.

The network also partnered with GWP-C to host the 2023 GWP-C Water Academy for Youth (GWP-C WAY) between the period July – September 2023. GWP-C WAY is a three-month training programme for young Caribbean persons between the ages of 20 – 35 with a keen interest in water resources management.



# FACULTY OF FOOD AND AGRICULTURE

**Project: “CSIDS-SOILCARE Phase 1: Caribbean Small Island Developing States (SIDS) multicountry soil management initiative for Integrated Landscape Restoration and climate-resilient food systems.”**

The UWI has signed a PSA with the PISLM to execute activities under Components 1, 4 and 5 of the project. The scope of the PCA includes:

1. The Agreement sets forth the terms and conditions of the cooperation between the Parties for the execution of aspects of Component 1, Component 4 and Component 5 of the project **“CSIDS-SOILCARE PHASE 1”** (hereinafter referred to as the “project”) as fully described in the Project Document.
2. The main objective of the project is an integrated land management model that includes agricultural, forestry and natural resources management practices that generate development and critical environmental benefits in tandem in eight Caribbean island states (Antigua and Barbuda, Barbados, Belize, Grenada, Guyana, Jamaica, Haiti and St Lucia).

The FFA is the competent faculty facilitating the process. Under Component 1 there are a few activities all of which are advanced and underway. The following provides a summary of the status of the workplan and accomplishments to date.

- A1: Updating of Soils Data
- A2: Establishment of CARSOLAN and improvement in testing capacity
- A3: Establishment of CARSIS
- A4: Scholarships
- A5: Research and Innovation Facility at AIP

**Project: FAO – To provide Technical support for the analysis of country-level impacts and capacity building in the identification of agriculture and livelihoods risk management options and policy interventions.**

The project objectives were:

- a. Identification of impacts on fertiliser and feeds demand, prices and availability from the project countries (Grenada, Guyana, St Vincent and the Grenadines and St Lucia).
- b. Cost-effective risk mitigating agriculture and livelihoods options using the results of the data collection for validation.
- c. Capacity building on priority/selected risk management options.
- d. Policy recommendations to inform food security and livelihoods resilience.

## Interventions

1. Technical support for the training of community youth groups in climate smart agriculture and the development of decision support-tools for precision irrigation and pathogen risk monitoring. The project objectives are:
  - a. Conduct/facilitate a Training on Climate Smart Dry Land Farming Agricultural Practices for Community Youth Groups
  - b. Provide technical support to the implementation, monitoring and lesson learning of/on Climate Smart Dry Land Farming Agricultural Practices. Based on the identified Climate Smart Dry Land Farming Agricultural Practices as part of Activity 1
  - c. Provide technical inputs and advice on the development, calibration, operationalization, and iteration of the following decision support-tools that will be rolled out in collaboration with the National Agricultural Research Council of Italy (CREA Italy).

2. Development of a proposal outlining the design and the sustainability case for a Caribbean Agriculture Extension Platform. The project objectives are:
  - a. Develop a proposal outlining the design and the sustainability case for a Caribbean Agriculture Extension Platform
  - b. Enable collaboration of UWI extension team in planned FAO extension training.

**Project: “Commercialization of Sewerage Biosolids from Wastewater Treatment Plants operated by WASA”**

The UWI has executed a service agreement with the Water and Sewerage Authority for the provision of services towards the project entitled “Commercialization of Sewerage Biosolids from Wastewater Treatment Plants operated by WASA.” The activities include:

*Component 1: Evaluating biosolid composting and compost use in tropical agronomy.*

1. Evaluation of composting systems and compost recipes on compost quality.
2. Monitoring of compost quality and safety.
3. Assessment and recommendations on compost use as a soil amendment and plant health stimulant.
4. Monitoring of soil quality and plant nutrient status.
5. Selection of farmers for collaboration and training on different types of composting systems and anticipated impact on soil quality.
6. Collection of data to facilitate the identification/development of crop management practices.

*Component 2: Development of Technical Packages*

1. Preparation/printing of information products on compost use in agronomy and influences on soil quality, subject to the prior review and approval of the Water and Sewerage Authority.

*Component 3: Training Workshops, Information Dissemination and Showcasing of Technology*

1. Conduct workshops for technicians, agro shops and farmers in Trinidad & Tobago.
2. Conduct stakeholder sensitisation and perception surveys.
3. Distribution of information products to relevant crop industry stakeholders.
4. Showcasing WASA’s Technology to the local farming community on FFA, UWI Agricultural Innovation Park (AIP), Orange Grove.

**Project: “Food Security and Livelihoods Resilience”**

Dr Martin Hughes and Dr Gaius Eudoxie - Execute final phase of the UNJP/SLC/024/UNJ “Food Security and Livelihoods Resilience” - Development Emergency Modality Project through training and capacity building.

**Project: “Advancing Global Biosecurity Governance through the Promotion of the Tianjin Biosecurity Guidelines”**

Professor Neela Badrie - Successful application as a member for the InterAcademy Partnership (IAP) member academies grant. Global Young Academy. Representing the Caribbean Academy of Sciences representative of CAS. \$20,000 US.

**Project: “NIHR-funded Global CFaH project”**

Dr Arlette Saint Ville

- As part of the NIHR-funded Global CFaH project conducted site visits and stakeholder meetings with over a dozen (public sector, community-based organisations, farmer groups and NGOs) in Saint Lucia and Saint Vincent (22- 28th January) accompanied by an agroecology expert from James Hutton Institute to select sites for the project’s living lab interventions.

# FACULTY OF FOOD AND AGRICULTURE

- Co-investigator (Stakeholder engagement), on a two-year project valued at US\$300,000 led by PI Dr Deborah Villarroel-Lamb, Faculty of Engineering. The project is funded by the Future Earth NGO. The project seeks to implement nature-based solutions for hazard mitigation and adaptations strategies in the coastal zone. Workshop held in Panama, 25 -29 June 2023.
- The IGDS/FFA (MOOC) titled “Gender, Climate Justice and Food Systems Resilience” was launched on the Future Learn platform. The online course is free but students desiring to obtain a certificate will pay a cost of approximately US\$30.

## **Project: “The development of low-cost Unmanned Aerial Vehicle Systems (UAVs/drone) technologies to examine stream water quality”**

Dr Kegan Farrick

- Received funding from the UWI-CRP for a Project entitled “The development of low-cost Unmanned Aerial Vehicle Systems (UAVs/drone) technologies to examine stream water quality”. Worth TT\$51,389.07.
- Awarded a research grant by the IAEA for €15,000 for the project “ High Intensity Storm Event Contributions to Stormflow and Stream Residence Time in a Watershed in Northern Trinidad”. The aim of the project is to enhance the methodologies used to assess high intensity storm events under projected climate change scenarios.

## **Project: “Clara Lionel Foundation Project”**

Dr Gabrielle Thongs

- Lead Researcher, Clara Lionel Foundation Project. The project seeks to create an online spatial database of Climate Change (CC) and Disaster Risk Reduction (DRR) projects completed by the UWI. The database will assist with identifying research gaps in CC and DRR projects in

the region. The project is being coordinated through the Office of Global Affairs, UWI and the budget is US\$144,000.

- Project Technical Lead and Scientific Coordinator, Geoact Caring Project: GEOACT (€300,000) - Georisks and climate change in the Caribbean region based on a transdisciplinary and trans-sectorial approach: Integrating science and end-users needs for innovative and sustainable mitigation and adaptation solutions has commenced.

## Data and Metrics

For the Academic Year 2022/2023 the Faculty of Food & Agriculture produced the following:

- |                          |    |
|--------------------------|----|
| • Peer Reviewed Journals | 60 |
| • Conference Proceedings | 22 |
| • Technical Reports      | 6  |

## Outreach & Collaborative Initiatives

### Outreach Activities

The faculty has continued to showcase itself and its diverse offerings on social media, which has been impactful on visibility and student interest. The recruitment committee met once for the reporting period to determine the approach to the recruitment drive for academic year 2023/2024. It was agreed that each department will lead the efforts in promoting and marketing their programmes with backstopping from the Deputy Dean Outreach. Nevertheless, the DDO coordinated outreach upon request to a number of schools and other exhibitions in collaboration with all departments. The following list shows the events attended:

*Student Recruitment Events*

11 Jan 2023	Pigeon Peas Festival 2023
24 Feb 2023	Iere High School Career Day
3 Mar 2023	Five Rivers Sec Career Day
6 Mar 2023	St Stephen's College Fair
8 Mar 2023	Arima Girls RC Career Fair
17 Mar 2023	ASJA Girls College, Barrackpore Career Day
22 Mar 2023	Trinity College East, Trincity Career Day
12 May 2023	Penal Secondary School – UFS Tour
24 May 2023 am	Success Laventille Secondary Career Day
24 May 2023 pm	Morvant Laventille Secondary Career Day
2 June 2023	Toco Secondary School Career Day
7 June 2023	Barrackpore West Secondary Science Day
18 & 19 October 2023	World Food Day 2023 (Tobago)
15 November 2023	Five Rivers Secondary School Career Day
17 November 2023	UWI School of Education, Persons with Disabilities as Change Agents Open Forum
29 Nov to 1 Dec 2023	FORMEO Student Fair (Martinique)

Departmental representatives also participated in the “Ask UWI about...” series with both radio and television interviews. The Deputy Dean, Outreach did interviews with CNC 3 on the Morning Brew and Slam 100.5.

The events culminated in a magnificent presentation at the UWI Open Days 2023 where the interest in faculty programmes was very high. I take this opportunity to formally thank all those who participated and supported the recruitment activities.

Conference/Seminar/Workshop/Webinar Presentations

**Dr Oral Daley**

Presented two papers at the 34th West Indies Agricultural Economics Conference, held by The Caribbean Agro-Economic Society in Nassau Bahamas, 4 - 9 June 2023.

An Investigation into Factor Affecting the Root and Tuber Crops Subsector in St. Kitts and Nevis by Oral Daley, Evlyn Nisbett, Donald Palmer and Nequesha Dalrymple.

An Investigation into the Prospects for Increased Utilization of Topi-Tambo (Calathea allouia) in Trinidad & Tobago by Oral Daley, Hakeem Letren, Nequesha Dalrymple and Donald Palmer.

**Dr Ronald Roopnarine**

Green Solutions for Slope Stability: Regulating Soil Moisture Content in Expansive Clays, Connecting Nature-based Solutions with Disaster Risk Reduction in Trinidad (Akil Crichlow, Ronald Roopnarine, and Gaius Eudoxie). GWP-C Caribbean Science Symposium on 21 – 22 Water March, 2023.

Land Use Policy: Agriculture and Water Management, ISTT, Land Use Policy Conference The University Inn and Conference Centre (Ronald Roopnarine) 22 -23 March 2023.

Chair- GWP-C's Caribbean Science Symposium on Water 21– 22 March 2023.

**Professor Neela Badrie**

Tyndall, M., Badrie, N. and Singh, M. (2023) Consumers' knowledge, attitudes and perception towards the safety of street foods in Guyana, South America. Internal Association of Food Protection (IAFP), Moines, USA. P&J Li P&J Live, Aberdeen, Scotland. United Kingdom, 5 May 2023. Presentation ID# 31702(refereed abstract).

Badrie, N. (2023) Food safety concerns: The economic cost of foodborne illness for Caribbean countries (accepted). To be presented at the 34th West Indies Agricultural Economics Conference, The Caribbean Agro-Economic Society (CAAES) and the Bahamas Agriculture & Marine Science Institute (BAMSI), merging Challenges and opportunities for Food system climate change and Tourism nexus 4 -9 June 2023, Breezes Resorts & Spas Bay Street, Cable Beach, Nassau, The Bahamas Nassau Bahamas.

# FACULTY OF FOOD AND AGRICULTURE

## **Dr Martin Hughes**

Presentation at the Joint Conference of the Caribbean Agricultural Extension Provider's Network (CAEPNet) and the 56th Annual Meeting of the Caribbean Food Crops Society (CFCS) – 12 July 2023, Grand Anse, Grenada. "Towards the development of an operational model for community/communal forage banks for smallholder ruminant livestock farmers in the Caribbean: the focus group approach."

## **Dr Arlette Saint Ville**

- Stakeholder meeting with key stakeholders from the Ministry of Education, Ms Vindra Cassie, Curriculum Coordinator of the Social Sciences Unit in the Curriculum Planning Development Division and unit staff, Ms Diane Boochoon, and Ms Simone Robinson. Priority areas of training were identified to enhance secondary school and sixth form teacher capacity in teaching Geography.
- Staff mobility and Erasmus+ opportunity, travelled to McGill University via the Erasmus Exchange Programme with Oradea University, Department of Geography and Tourism, to support collaborative course development and shared research agenda.
- Facilitator, of a one-day stakeholder workshop in Panama in collaboration with Dr Deborah Villarroel-Lamb (CREC-SA.1984//02/2023) on a research project titled "Engineering the Design of Nature-Based Solutions for Sustainable Development" (US\$300,000) funded by Future Earth from 25 June - 13 July 2023.

## **Dr Kegan Farrick**

- Judge, FFA Research Day, poster presentations, March 2023.
- Panelist, World Town Planning Day, "Caribbean Urbanisation in the Time of Climate Change and Limited Resources". Department of Geomatics Engineering and

Land Management, UWI, St. Augustine, November 2022.

- Presenter, Earth Science Week, Petroleum Geoscience Unit, The Department of Chemical Engineering, UWI, St. Augustine, November 2022.
- Host, Geography Awareness Week Career Panel, UWI, St. Augustine (2022).
- Joined the STORM (Isotope Network of Tropical Tempestology) with Dr Ricardo Sanchez-Murillo at the University of Texas, Arlington. The research group aims to understand how tropical storms and hurricanes develop using novel stable isotope techniques.
- Research and training fellowship granted by the International Atomic Energy Agency (IAEA). To be taken up at the University of Western Australia, Perth, Australia. This is part of a collaborative initiative between the IAEA, the Water Resources Agency and The UWI in improving the capacity for greater water resource management in Trinidad & Tobago.
- Participated in an IAEA expert mission with Dr Ricardo Sanchez Murillo and isotope sampling and analysis with the Water Resources Agency (WRA) from Jan 2 to 5th, 2023. This is part of a larger project characterizing water resources and recharge rates in the northern gravels in Trinidad & Tobago. In addition, two postgraduate students and two research assistants received training in these areas.
- IAEA isotope hydrology symposium - Ricardo Sánchez-Murillo, Germain Esquivel-Hernandez, Christian Birkel, Ana María Durán-Quesada, Kristen Welsh-Unwala, Kegan Farrick, Yelba Flores-Meza, Bianca Castillo-Treminio, Jorge Cardona, Saúl García-Santos, Tania Peña-Paz, Junior Hernández-Ortiz, Laura Gil-Urrutia, Roberto Cerón, Marcia Barrera de Calderón, Alejandro García-Moya, Deborah Hernández, Wendy Harrison-Smith1, Juan Perez Quezadas,



Miguel Mejía-González, Luis González-Hita, Natalie Cooper, Rene Price, Diego Riveros-Iregui, Ny Riavo G. Voarintsoa, Sylvia Dee, Jan Boll, "Isotope Network of Tropical Tempestology (STORM): the genesis and development of collaborative research across the intra-America Seas and the eastern Pacific Ocean".

- European Geophysical Union meeting - Kegan Farrick and Nicola Mathura Hillside Quarry Impacts on Streamflow and Stormflow response in a Tropical Watershed: A Geochemical and Hydrometric Investigation.
  - Regional expert in isotope hydrology, meeting RLA0063: Using Nuclear Techniques for Climate Change Adaptation and Mitigation Project Preparation Synthesis Report (PPSR) run by the IAEA. This meeting brought together regional experts in hydrology and water resources to assess the needs for hydrological work and the incorporation of isotopes in hydrology.
- Dr Gabrielle Thongs**
- Facilitator, of a two-day GIS based workshop for the Basel Convention Regional Centre, a division of the Ministry of Planning and Development.
  - Vice-Chair, Alumni Giving Project Working Group of the UWI, St Augustine. This committee continues to seek funding for faculty and UWI based projects.
  - Trainee, The UWI partnered with USAID and Cadmus to implement a new applied political economy analysis (PEA) methodology in 11 Caribbean countries including Trinidad & Tobago. The new methodology is only being taught to 11 persons in the Caribbean. These trainees will then become trainers for the UWI and the Caribbean.
  - Implemented the CCRIT tool in Trinidad and SVG.
  - Assisted Water and Sewerage Authority (WASA), Tobago with creating a GIS department.
  - Facilitator, of a two-day workshop for the Caribbean Disaster Emergency Management Agency (CDEMA) Nov 23-24, 2022.
  - Presenter and Host, of a virtual lab at the 12th Caribbean Conference on Comprehensive Disaster Management (CDM) on December 7-9, 2022, in Barbados
  - The UWI Lead in preparation and development of the MOU between the Ministry of National Security and The UWI, St Augustine Campus signed on 18th January 2023.
  - Thongs, Gabrielle, Clive Murray, and Evan Iniss-Springer. 21st February 2023. Risk and vulnerability analysis and tools in Antigua and Barbuda. Children's Climate and Disaster Risk model (CCDRM) for Antigua and Barbuda Consultation Workshop.
  - Thongs, Gabrielle, Clive Murray, and Iniss-Springer. 7th March 2023. Risk and vulnerability analysis and tools in Dominica. Children's Climate and Disaster Risk model (CCDRM) for Dominica Consultation Workshop.
  - Thongs, Gabrielle. 16th March 2023. The Use of GIS as a Teaching and Assessment Strategy for CAPE. Ministry of Education, Trinidad & Tobago. (Almost 90 teachers attended)
  - Coordinator and Moderator, of the "Innovative approaches for building disaster and climate change resilient communities" Webinar. 16th March 2023. This webinar was a collaboration among the UWI Office of Global Affairs, the Institute of the Environment and Sustainability at UCLA and the Clara Lionel Foundation. It will be rebroadcasted on UWI-TV.
  - Completed courses: The Nature-based Solutions for Disaster and Climate Resilience developed by the United Nations Environment Programme (UNEP) and Building Climate Resilience through Ecosystem-based Adaptation Planning.

# FACULTY OF FOOD AND AGRICULTURE

## **Dr Melissa Atwell**

- Staff mobility and Erasmus+ opportunity, travelled to Birmingham City University, United Kingdom from the 02 - 08 July 2023.

DAEE staff engaged in facilitating workshops during the March – April 2023 period under the FAO funded project “Technical Support for the Analysis of Country-Level Impacts and Capacity Building in the Identification of Agriculture and Livelihoods Risk Management Options and Policy Interventions.” This project relies on interdisciplinary input from staff at both the DAEE (**Dr Omardath Maharaj, Dr Jeanelle Joseph and Mr Nicholas Boodram**) and Department of Food Production. It focused on the impacts reported at the farming level based on the COVID-19 pandemic effects, conflict and climate change. Therefore, policy recommendations were made to inform food security and livelihoods resilience interventions.

## Strategic Review

### **Access**

In an effort to attract and increase the number of fee-paying students, the FFA hosted several outreach activities in various Secondary Schools during the period under review. The faculty also hosted the Geography Awareness Week 2022 along with a Secondary School Photo competition in which six schools participated. A survey was also conducted with data sourced from all secondary schools in Trinidad & Tobago that teach Geography. The names of Geography coordinators, email addresses, and other contact information were then put into a database to improve access and communication on offerings. Through COPIR, data was sourced to identify schools over the past 10 years that were source schools for recruits.

However, there is a need to build capacity in house, or to source new skillsets to support more social media engagement plans with key demographics in order to attract and increase the number of fee-paying students in senate-approved programmes. With limited staff resources, human resources are stretched to capacity to facilitate outreach events. OJTs requested via HR to supplement lack of human resources in several areas were not received. The Department of Geography especially needs at least two OJTs since there is no budget for an AA and a clerical assistant which are needed.

The action plan created from the Quality Assurance recommendations in one department by the review team was executed and the short, medium- and long-term goals implemented. Progress is slow because of the lack of administrative support with one secretary and one temporary AA supporting/juggling competing tasks and deadlines.

### *Academic Improvements*

First cohort for the following programmes graduated in 2022/2023:

- Postgraduate Diploma in Pesticide Technology Management - 14 (seven with Distinction)
- MSc Food Security - 10 enrolled four awarded (three with Distinction)
- First cohort of Professional Certificate in Shade House Production and Management completed (64 students to graduate)
- Promotional webinars were held to promote all MSc programmes by Programme Coordinators
- Each programme attracted increased numbers.

The following new Graduate programmes were approved for offer:

- MSc Marketing and Agribusiness
- MSc Agricultural Economics
- Postgraduate Diploma in Climate Resilient Agricultural Extension for Community Development

### *New Programmes and Initiatives*

- Revisions to existing MSc Value Addition for Food and Nutrition Security to attract potential new student and inclusion of new courses in research skills and statistics and project management to course.
- Development of new MScs in Agronomy, Agroecology and Climate-Smart Farming in the Tropics.
- Development of MPhil/PhD in Tropical Agricultural Development to target graduates from MSc Food Security.
- Consolidation of certificate programmes to increase student enrolment in the Faculty.
- Introduction of short courses through the BDU in:
  - Tropical Commodity Utilization or Food Preservation
  - Farm Business Management and Financial Planning
  - Postharvest handling and storage techniques
  - Farm to Table Culinary Workshops
  - Sustainable Livestock Farming Practices
  - Soil testing and Analysis Workshops
  - IPM Testing
  - Food Safety Auditing and Certification

BUS approval and ACTT Work is ongoing in developing a recruitment and marketing strategy plan that involves the launch of the GIS Minor for the September 2024 student intake.

As part of its ongoing drive to improve curriculum and learning, there is continued revision of course outlines, with many modified to include blended learning. A total of thirteen Geography courses were revised and approved at all levels and forwarded to Banner to be updated on the system. Most of the courses have been converted to blended/online learning and are 100% coursework.

The review of undergraduate offerings of the majors in Geography, and ENRM and the BSc (Special) in Geography as part of the Quality Assurance review. The Department of Geography is conducting an assessment on the primary areas for revision and developing a timeline for these changes.

Revision of the ENRM major is a priority in the quality assurance review. All FFA Department Heads met to discuss the review of the ENRM programme. An online questionnaire was developed and sent out to stakeholders and all lecturers in the FFA to assess the core ENRM courses and electives. Changes are planned for the revision of the ENRM curriculum revision move away from a pure natural resource focus to more current issues regarding environmental sustainability.

MSc and postgraduate certificate in Environment, Resilience and Sustainability is still under development after feedback from the last FFA CRC meeting. Work is ongoing on the skills training certificates as part of the revenue generation recommendation.

Consolidation of the Certificate in Environmental Geography, work is ongoing to consolidate the FFA Certificate programmes to grant a student entry into any BSc programme offered by any department of the FFA.

# FACULTY OF FOOD AND AGRICULTURE

F&GPC approval was received for MSc Marketing and Agribusiness, MSc Agricultural Economics, and the Postgraduate Diploma in Climate Resilient Agricultural Extension for Community Development in April 2023. These programmes are available effective AY 2023/2024.

## *Curriculum Review*

The Board of Graduate Studies and Research provided approval on 23 March 2023 for the permanent conversion of courses (AGBU 6401: Economics of Food Security, AGBU 6402: Food Policy and Food Security, AGBU 6002: International Trade and Marketing) to be 100% coursework effective Semester II 2022/2023. This change in course component weightings is reflective on Banner.

BUS approval (May 2023) and ACTT approval (July 2023) were granted for the revised BSc Human Nutrition and Dietetics. GATE approval is pending.

AQAC requested that the Minor in Communication Technology and Extension be revised from an online mode to a blended mode, and additional comments to be received from the Faculty of Humanities and Education - this is being processed.

## *ERASMUS Staff/Student Mobility with Technical University of Sofia, Bulgaria*

**Mr Renaldo Lewis**, Laboratory Technician attended training from the Technical University of Sofia, Bulgaria under the Erasmus Staff-Student Mobility Project in June-July 2023. The training was focused on the use of Microfluidics as a tool in metagenomics research.

**Dr Nicole Vesselinova Christoff** visited The UWI Campus, Department of Food Production from 12-23 July 2023 on acceptance of the ERASMUS programme agreement Staff Mobility.

## *Quality Assurance Review*

The Quality Assurance Review process was started in the DAEE in September 2022. Staff met and developed a develop a “Quality Evaluation Report (QER)”, which was submitted to the Quality Assurance Unit (QAU). A Quality Assurance Review (QAR) Orientation was later held with the Department by the QAU in November 2023 to evaluate the QER. The key elements of the meeting were:

1. The purpose of the Quality Evaluation
2. Quality Evaluation in the Context of the UWI Quality Policy
3. Review of the Evaluation Instrument of the Department of Agricultural Economics and Extension
4. Orientation Session: Preparing for a Quality Assurance Review

The QAU provided the “Report of the Quality Evaluation of the Department of Agricultural Economics and Extension”, on 25 November 2022.

Subsequently the Department collated additional supporting documents and several staff meetings were held during the period, April – July 2023 to develop the “DAEE Self-Assessment Report” which was submitted in August 2023. The DAEE also engaged an external consultant in May 2023 to assist the staff in development of the DAEE’s vision, mission, goals, and strategic objectives and outcomes. The department also produced a 10-minute Virtual Tour of the DAEE facilities with an introduction by the Head of Department, Dr Sharon Hutchinson.

## Alignment

The Faculty engaged in and completed several research projects during the 2022/2023 academic year. The Clara Lionel Foundation Project, which seeks to create an online spatial database of Climate Change (CC) and Disaster Risk Reduction (DRR) projects was completed by the UWI. The database will assist with identifying research gaps in CC and DRR projects in the region. The project is being coordinated through the Office of Global Affairs, UWI and the budget is US\$ 144,000. The Geoact Caring Project, GEOACT - Georisks and climate change in the Caribbean region was signed as of 01 July. This €300,000 project, based on a transdisciplinary and trans-sectorial approach is a project that seeks to integrate science and end-users needs for innovative and sustainable mitigation and adaptation solutions.

Research grants were also received during the period under review. These included the award of €15,000 by the IAEA for the project “High Intensity Storm Event Contributions to Stormflow and Stream Residence Time in a Watershed in Northern Trinidad”. The aim of the project is to enhance the methodologies used to assess high intensity storm events under projected climate change scenarios.

A two-year project valued at US\$300,000 to commence May 2023 was funded by the Future Earth NGO. The project seeks to implement nature-based solutions for hazard mitigation and adaptations strategies in the coastal zone. Funding was also received from the UWI-CRP for a project entitled “The development of low-cost Unmanned Aerial Vehicle Systems (UAVs/drone) technologies to examine stream water quality” in the amount of TT\$51,389.07.

Services for Market-preferred sweet potato varieties research activity under the CARDI's project “Regional sweet potato industry value chain enhancement and technology transfer was awarded US\$78,400.00 and the Insect Farming/IBR Facility to be established at the UFS was funded by FAO (US\$63,000.00). Seamless support needed from campus departments was not available and saw ongoing delays in receipt of funds with submission of the first invoice that have resulted in a pause of the project.

A proposal for the refurbishment of the GIS Lab, a Summer internship programme for Geography/ENRM students, and a small fund to promote sustainable development goals in the Caribbean was submitted to the Alumni Giving Project Group of the UWI St. Augustine. A virtual career panel was held and featured Alumni Geographers who shared their road map of experiences and adventures since earning their degrees.

The Faculty generated income via a number of different methods. The rental of lab equipment (Guelph Permeameter for eight days) for use as part of an Environmental Consulting Project (TT\$8,000.00), the sale of GIS services to a foreign professor (TT\$500.00), and the facilitation of a two-day GIS workshop on 20 - 21 July 2023 for the Basel Convention Regional Centre (BCRC) of the Ministry of Planning and Development (TT\$25,000.00). Biophyte agriproduct was commercialised and made available for sale, and Agro-Environmental Services (AES) were offered to the public.

# FACULTY OF FOOD AND AGRICULTURE

## **Agility**

The Faculty partnered with the Ministry of Youth Development and National Service to train 100 students in Shade House Production and Management. FFA Farms continued to generate income, and several projects amounting to over \$10m with FFA as the principal executing organisation were received and executed. There was also continued income generation through the Agro-Environmental Services (AES) in: Plant Health Diagnostics, Food Lab Testing, and Animal Nutrition and Feed Analysis. These services are made available to Farmers, Gardeners, Industries, Land Managers, Commercial Nurseries, Agro-processors, Environmental Firms and Agencies.

Support services to the Ministry's Homestead Programme to assess soil health and nutrition were also provided. However, the infrastructure limitations at Farms, Soils and faculty buildings delayed delivery of services offered. There is need for a new pasteurizer, tractors, brush cutters and dedicated, driven staff. The Faculty noted gaps in the management at the UFS farm in the reporting year and the Market Place initiative needs a large injection of capital to hire staff and upgrade the facilities to make it a state-of-the-art teaching facility.

## *Training for ATSS Staff*

The Embassy of the People's Republic of China in Trinidad & Tobago invited UWI staff to participate in seminars sponsored by the Chinese government. These seminars, held both in-person in China and virtually, covered various topics related to agricultural technology and development. For those attending in-person seminars in China, expenses such as international flights, accommodation, and transportation were covered.

Six ATSS staff members attended these seminars between August and September 2023. They were trained in areas such as Tissue Culture Training, Agriculture Water-saving Irrigation, Storage and Preservation Technologies for Fruits and Vegetables, and Green Agricultural Development. Additionally, one staff member completed a virtual training course on Practical Technology of Small Agricultural Machinery.

## *First Aid Training*

The Department of Food Production (DFP) funded First Aid Training for 11 lab staff and three field staff. The persons were selected by the supervisors based on their First Aider status in the high-risk environment. This training was held on the 1<sup>st</sup> and 2<sup>nd</sup> December 2022.

## *Improved Amenities*

Equipment installation and upgrade in FFA classrooms were completed to facilitate delivery of Hybrid teaching. During the transition year from online back to face-to-face teaching, the DAEE facilitated a couple of its final year students; one who resides in Tobago as well as another who is employed full time via hybrid teaching to ensure they successfully graduated during academic year 2022/23. The students were appreciative of the efforts afforded to allow them the opportunity to complete their course of study and attain their first degree in Agriculture.



### *Equipment*

The DAEE purchased the following, as part of its drive to upgrade outdated equipment, for use by academic staff, the Head of Department and the Administrative Assistant:

- One Laptop was received in July 2023
- Six Desktop Computers were received in May 2023, to replace written-off computers.
- The main printer was replaced with a new one from Eric Solis Ltd on 17 July 2023.

### *Administrative Improvements*

Activation and increase in departmental committees to include:

- Outreach – Schools
- Outreach – Communities
- Research and Grants
- DFP-Field Station (meetings held to address health and safety improvement measures) and focus on revenue generation.
- Department Website and Media
- Agro-Environmental Services.
- Diversity and Inclusion (two other committees to set up – Alumni Engagement and Sustainability Committee.

Reassignment of the Department of Food Production Administrative staff in the position of Technical Assistant to support the revenue generating strategies of planning, teaching, research and outreach services, as well as new self-funded programmes. The duties of the Technical Assistant include assisting in research grant proposals, preparing contracts and processing of payments for self-funded postgraduate programmes.

The review and update of Staff Student Liaison Committee meeting processes. Students encouraged to give feedback via feedback forms and a survey format was adopted, this should be fully operationalised in 2023/2024.

The faculty's secretaries and the administrative assistants engaged in Procurement Training on 17 March 2023. The UWI's Procurement Unit with support from the Bursary and Campus Legal Office facilitated this session.

# FACULTY OF FOOD AND AGRICULTURE

## Distinguished Visitors

### **Dr Nicole Christoff**

Assistant Professor  
Radiocommunications and Video technologies Department  
Technical University of Sofia, Bulgaria

### **Dr Levi Gahman**

Reader and ISRF Fellow of Geography and Planning,  
Department of Geography, University of Liverpool, Liverpool, United Kingdom

### **Professor Alexander Ilies**

Dean of Faculty of Geography, Tourism and Sport,  
Department of Geography, Tourism and Territorial Planning, Faculty of Geography,  
Tourism and Sport, The University of Oradea, Oradea, Romania

### **Professor Dorina Camelia Ilies**

Editor-in-Chief of the GeoJournal of Tourism and Geosites,  
Department of Geography, Tourism and Territorial Planning, Faculty of Geography,  
Tourism and Sport, The University of Oradea, Oradea, Romania

### **Professor Ioana Josan**

Doctoral University Lecturer,  
Department of Economic and Administrative Sciences, Faculty of Administration  
and Business, The University of Bucharest, Bucharest, Romania

### **Dr Andrew Le**

Assistant Professor of Sociology,  
T. Denny Sanford School of Social and Family Dynamics, Arizona State University  
(ASU), Arizona, United States of America

### **Dr Theo Reeves-Evison**

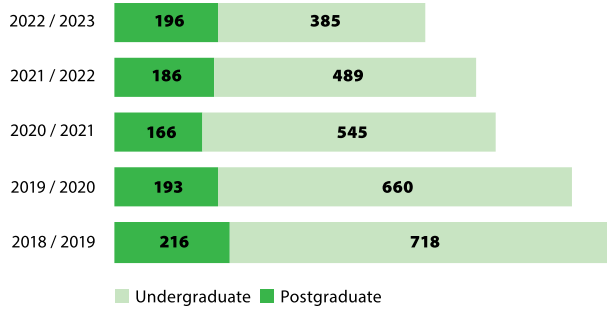
Senior Lecturer of Theoretical and Contextual Studies,  
Birmingham School of Art, Birmingham City University, Birmingham, United  
Kingdom

### **Ms Mihaela Ungureanu**

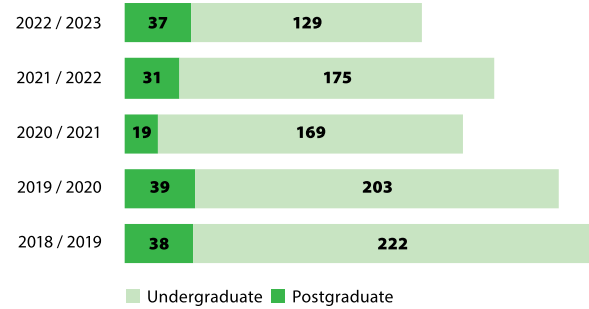
Chief Executive Officer,  
Saugatuck Rowing and Fitness Club, Connecticut, United States of America

## Enrolment & Graduation Trends

### Enrolment Trends – Food & Agriculture



### Graduation Trends – Food & Agriculture



# FACULTY OF Humanities and eDUCATION



## Dean's Summary

The Academic Year 2022/2023 saw the emergence of students physically back out in the classrooms and the full complement of staff in the offices, post the COVID-19 pandemic.

Despite challenges faced due to the pandemic, the Faculty still managed to have had an active year.

Most of our activities were successfully transitioned from online to physical. The Faculty continued to apply some online measures of teaching and learning as well as our administrative processes, such as meetings.

In 2022/2023 we were also able to continue operationalising The UWI's Triple-A Strategic Plan and its strategic themes of Access, Alignment and Agility, through its 'Phase II' component: *The Revenue Revolution*.

Professor Elizabeth Walcott-Hackshaw  
**Dean**

Given *The Revenue Revolution*, the Faculty adjusted its efforts to focus mainly on critical areas with respect to entrepreneurship, teaching and learning, and pressing societal outreach activities. This was done through hosting several targeted workshops and webinars, creation of new revenue-earning Continuous Professional Education (CPE) courses and Micro-credential Accelerator Plan (MAP) bundles and the conceptualisation of a Faculty business venture, *Humankind Studios*.

The FHE staff also worked assiduously on a number of publications in the review period as listed below.

- Books – total of 10
- Chapters in Books – total of 14
- Refereed Articles – total of 38
- Additional scholarly activities:
  - 8 Creative Works (Short Fiction/Plays/Musical Compositions)
  - 16 Productions, Exhibitions, Screenings and Films
  - 4 Online Publications (blogs, podcasts, articles)
  - 5 Newspaper Articles/Newsletters

#### **CHALLENGES in the period under review**

- Funding for Faculty projects/initiatives.
- Timeliness of approval processes.
- Staffing challenges.

## Anniversaries, Achievements and Awards

### *Individual Awards/Honours:*

#### *Department of Creative & Festival Arts (DCFA)*

**Dr Marsha Pearce** was awarded Campus Research and Publication Fund to support her ekphrastic book project *'Black Light Void'*, pairing Edward Bowen paintings and short stories in its exploration of Caribbean place and identity (March 2023).

**Dr Jo-Anne Tull** received a Visiting Professorship at UFR Sciences juridiques et économiques, Université des Antilles, Pôle Guadeloupe: to conduct research, teach a course in Festival Economics to students in the BA Tourism programme; and develop papers for a conference around the field of Festival Economics (January 8-February 8).

#### *Department of Modern Languages & Linguistics (DMLL)*

**Dr Renee Figuera** was awarded a Fulbright Fellowship from the US Department of State and in TESOL at Vanderbilt University, Nashville, Tennessee (2022/2023). She was also awarded a College Residency Fellowship by the Institute of International Education, Department of State, Washington DC, at Community College of Baltimore County, Maryland, USA. The opportunity entailed sharing research and collaboration opportunities in Linguistics and TESOL and included a bursary of US\$800.

#### *Department of History*

**Dr Jerome Teelucksingh** received from the President of the Republic of Trinidad & Tobago, Paula Mae Weekes, the Hummingbird Medal Gold for national service in education and volunteerism.

#### *Office of the Dean - Film Programme*

**Dr Primnath Gooptar** (Part-time Film lecturer) was awarded the Hummingbird Medal, Gold, for his singular contribution to national culture.

**Mr Oyetayo Raymond Ojoade's** (Alumnus) movie *The Hidden Crime* won best documentary at the Coal City Film Festival and the Kaduna International Film Festival, Nigeria, August 2023.

# FACULTY OF HUMANITIES AND EDUCATION

## *Departmental Anniversaries/Achievements/Awards/Honours Centre for Language Learning (CLL)*

- 5th Japanese Language Speech Contest held on 30 September 2022.
- CLL Open House 2023 held on 24 -25 March 2023.
- Chinese Drawing Contest: held 29 May to 20 June 2023

## *Department of History*

The Department succeeded in using its Guild Fest 2022 event to revive the History Society, and thereafter, a register was opened for interested students to sign up for membership. The vibrancy of the History Society was manifested through their Campus History Treasure Hunt and Nelson Island Tour. Members also served as ushers during the Polish History Guest Lecture held in February 2023 and were active in History Fest 2023 and the History Department's Conference on the Trinidad & Tobago Black Power Revolution 1970 held in May 2023 hosted by the Sir Arthur Lewis Institute of the Faculty of Social Sciences. The Department also celebrated the 9th anniversary of the History Fest event.

## *Office of the Dean*

The Faculty Office, in collaboration with **Mr Juma Bannister** of Relate Studios, developed and offered its first Continuing Professional Education (CPE) course entitled *Practical Social Media Video Creation*, which was offered during Summer 2022/2023.

## *Office of the Dean - Film Programme*

The soundtrack of film lecturer **Mr Andreas Antonopoulos'** latest film "Cheenee" got digital distribution and is now available on Spotify, Amazon, and iTunes. Music Lecturer at the Department for Creative & Festival Arts (DCFA), Khion De Las, contributed to the soundtrack. The film is a documentary researching and exploring the culture and history of Trinidad & Tobago through a mixture of narrative documentary and contemporary dance.

Solange Plaza, Part-time lecturer and alumna, authored one of the winning scripts coming out of FilmTT's Script to Screen programme. The world premiere of her short film, *'I Dream of Calypso'* was held at a red-carpet gala at Central Bank Auditorium in August 2022.

The Final Year Capstone film *'Oya'* was screened at the 2022 Trinidad & Tobago Film Festival.

Alumnus Andrei Pierre's film, *'My Maxi'*, was screened at the Barbican Centre's *'Snapshots: Caribbean Cinema Up Close'* in London/UK, May 2023.

The resumption of Secret Cinema weekly film screenings at The UWI Film Studio, an initiative of film lecturer Mr Andreas Antonopoulos. Screenings were opened to The UWI community and the public (October 2022).

The Film Programme hosted the following:

- *Micro-Budgeting for Film*: A workshop for creatives who want to learn how to fund their film project on a smaller budget. The seminar was led by Pomegranate Studios, a youth-led media company focused on imagination, efficiency and flexibility (November 2022).
- *'A Story is a Machine: An Interactive Storytelling Workshop'* with Amanda Zilla. This event featured an informative lecture followed by an interactive workshop (November 2022).
- *Making the Cut: End of Year Screening*. An event that showcased selected student work across a range of courses. It was free and open to the public. The screening had an audience of 80 patrons (May 2023).

### *Department of Literary, Cultural and Communication Studies (LCCS)*

**Ms Deborah Matthews** (PhD candidate) Cultural Studies was shortlisted for the Commonwealth Short Story Award in April 2023.

### *Department of Modern Languages and Linguistics*

The Speech-Language Pathology (SLP) Section hosted the following SLP Webinars during the period of review:

- Acquired Cognitive Disorders – 19 July 2023
- Motor Speech Disorders – 21 July 2023
- Aphasia – 24 July
- Dysphagia – 26 July 2023
- Voice and Resonance Disorders – 28 July 2023

The Spanish Section hosted the following activities:

- Latin American Film Festival PRAGDA (28 March – 25 April 2023)
- Spanish Language Day – 24 April 2023

The Linguistics Section organised a student field trip to Paramin (French Lexicon Creole).

### *Department of Creative and Festival Arts*

The following are the activities of the Carnival Studies Section for the period under review:

- Students of CANV3602 Festival Management as part of their coursework served as project management assistants in the execution of a Carnival event managed and hosted by event management company EEmpire during the 2023 Carnival season. Led by **Ms Tamara Da Breo** (January 2023).

- The Old Yard 2023 – The UWI's Department of Creative and Festival Arts annual Carnival event (February 2023). UWI Today also published a feature on The Old Yard 2023 with **Dr Jo-anne Tull**.

The Dance Section engaged in the following activities during the review period:

- In August 2022 the Dance Section hosted a workshop of secondary school dance teachers in collaboration with the Dance Educators Association of Trinidad & Tobago (SSDEATT).
- In November 2022 the Section hosted *Festival of Movement: Rhythm of Culture* for BA and Certificate students in concert at the Little Carib Theatre, Woodbrook.

The following are the activities of the Musical Arts Section for the period under review:

- The UWI Arts Chorale performed at the face-to-face Matriculation Ceremony on The UWI quadrangle. **Mr Jessel Murray**, Conductor (September 2022).
- Lecture Demonstration of the Sarangi, presented by **Maestro Panka Mishra** at Studio IV Musical Arts Unit, DCFA (September 2022).
- The UWI Arts Steel and DCFA Music Unit alumni and students performed at The UWI, St. Augustine Campus graduation exercises at the Centre of Excellence, Macoya. **Mr Jessel Murray** and **Mr Khion De Las**, were Co-Directors (October 2022).
- *A Percussive Christmas* – The UWI Arts Percussion Ensemble held a concert at Lecture Room 3, (DCFA) Cheesman Building. **Dr Jeannine Remy**, Director (December 2022).



# FACULTY OF HUMANITIES AND EDUCATION

- *Jazz Around the World* – The UWI Arts Jazz Ensemble held a concert at Lecture Room 3, (DCFA) Cheesman Building including the premiere of “*Fresh Start*” by Mr Khion De Las. **Mr Khion De Las**, Director (December 2022).
- *When You Believe* – The UWI Arts Chorale & The UWI Arts Steel Concert performed at St Paul’s Anglican Church, Harris Promenade. **Mr Jessel Murray** and **Mr Khion De Las**, Directors (December 2022).
- *Holiday Concert* - UWI Arts Wind Ensemble performed at Lecture Room 3, (DCFA) Cheesman Building. **Mr Jessel Murray** and **Mr Isaiah Clement** were Directors (December 2022).
- *University of Minnesota Chamber Orchestra* – concert at Lecture Room 3, (DCFA) Cheesman Building. **Mr Jean R. Perrault** was the Artistic Director (January 2023).
- *Ensembles on the Greens* –The UWI Arts Percussion Ensemble in concert with The UWI Arts Jazz Ensemble on the Greens of the DCFA, Gordon St. Augustine. **Dr Jeannine Remy** and Khion De Las were Directors (April 2023).
- *Music of the Diaspora* – The UWI Indian Classical Ensemble in concert with The UWI Arts Intermediate Pan Ensemble at Daaga Auditorium, The UWI, St. Augustine. **Mr Shivannand Maharaj** and **Ms Alexica Adams** were Directors (April 2023).
- *Révérance* – The UWI Arts Chorale and The UWI Arts Steel in Concert at the Church of the Assumption, Maraval. Mr Jessel Murray and Mr Khion De Las were Directors (April 2023).
- *Festive Concert* – The UWI Arts Wind Ensemble at Lecture Room 3, (DCFA) Cheesman Building. **Mr Jessel Murray** and **Mr Isaiah Clement** were Directors (May 2023).
- *Cabaret* – The UWI Arts Chorale at Kafe Blue, Port-of-Spain. **Mr Jessel Murray** was Director and Bandleader (May 2023).
- *200th Anniversary of the Holy Trinity Cathedral* – The UWI Arts

Steel at Queen’s Park Savannah. **Mr Jessel Murray** was the conductor (June 2023).

The Theatre Arts Section engaged in the following activities during the review period:

- *New Directors Forum: A Festival of Plays* – Students pursuing a BA in Theatre Arts staged virtual theatrical presentations as part of the Directing II course. Chaired by **Dr Travis Weekes** (November 2022).
- *Festival of Scenes* – Students pursuing a BA in Theatre Arts staged theatrical presentations online as part of the Directing I course. Chaired by **Mr Brendon LaCaille** (December 2022).
- *A Midsummer Night’s Dream* – Annual Student Theatre Production directed by **Ms Michailean Taylor**. Learning Resource Auditorium (LRC), The UWI (March-April 2023).

The Visual Arts Section engaged in the following activities during the review period:

- *Carnival Artisan Pop Up Market* – C3 Centre, San Fernando (February 2023).
- *Presentation* – “Sybil Atteck” Biography & Works by Keith Atteck LR3, DCFA Cheesman Bldg, Gordon Street, St Augustine (March 2023).
- *Visual Arts Certificate Exhibition*, Foyer, DCFA Cheesman Bldg. (April 2023).
- *Visual Arts Degree Exhibition “Live”*– Multi Site Show. The Art Society of Trinidad & Tobago & Medulla Art Gallery (April-May 2023).
- Artist Talk: *Visual Arts Degree Exhibition “Live”*, The Art Society of Trinidad & Tobago (May 2023).
- Artist Talk: *Visual Arts Degree Exhibition “Live”*, Medulla Art Gallery (May 2023).
- The UWI St Augustine Campus: *Open Day* - Display of Artworks and public outreach (July 2023).

## School of Education

The School of Education hosted the following activities during the review period:

- Inaugural Public Lecture: *Social Justice Leadership: Evidence from Practice* by **Professor Paul Miller** – April 2023
- Modern Foreign Languages (MFL) Open day – June 2023
- 4<sup>th</sup> Regional Mixed Methods Conference themed Mixed Methods Matter! Charting the Course Towards Full(er) Integration – July 2023
- Persons With Disabilities (PWD) Symposium – November 2023

## Academic Highlights

### Faculty

#### *Graduating Students: Undergraduate Diplomas, and Certificates 2022/2023*

The FHE awarded 45 undergraduate diplomas and certificates in 2022/2023 compared with 35 in 2021/2022.

#### *Graduating Students: Undergraduate Degrees 2022/2023*

The FHE awarded 205 undergraduate degrees in 2022/2023, compared with 217 in 2021/2022. Of the 205 undergraduate degrees awarded in 2022/2023, 53 were First Class Honours degrees, compared with 62 First Class Honours degrees in 2021/2022. 99 were awarded Upper Second-Class degrees, 38 obtained Lower Second Class and 15 were awarded Pass degrees. Altogether, a total of 250 students graduated from The FHE undergraduate programmes in 2022/2023.

#### *Top Undergraduate Student in the academic year 2022/2023*

The top student in the FHE was Rayne Affonso who graduated with a Bachelor of Arts Degree in Spanish and Literatures in English (double-major). Ms Affonso obtained a Grade Point Average of 4.15.

#### *Graduating Students: Postgraduate Degrees awarded in 2022/2023*

The Faculty awarded 239 postgraduate diploma/certificates in 2022/2023. The Faculty also awarded 60 postgraduate degrees, of which 49 were MFA/MA/MEd/MPhil degrees and 11 PhD degrees in 2022/2023. Of the 11 doctoral degrees awarded, two students received their awards with high commendation.

## Academic Improvements

### *Centre for Language Learning (CLL)*

In September 2022 The UWI began its roll out of the Foreign Language Requirement (FLR) which saw the offering of four Blended Beginners courses for the first time in Mandarin Chinese, Japanese, French and Spanish. The courses were offered as four hours in-person and two hours online weekly.

### *Department of Creative & Festival Arts (DCFA)*

Students in the Department continued to receive support through a bursary: The Derek Walcott Theatre Arts Scholarship, for students in the final year of the Theatre Arts Degree programme. The Department is hopeful that more bursaries to support the effort of the students will become available.

The Department's public offerings "*Season of the Arts*" were presented over two semesters and saw just over 30 productions in Music, Dance, Theatre Arts and Carnival Studies and exhibitions from the Visual Arts Unit, as well as selected symposia and guest presentations. These included the mainstage theatre offering of Shakespeare's *A Midsummer Night's Dream*, *The Old Yard* at Carnival and a guest performance from the University of Minnesota at Duluth Chamber Orchestra at the start of the second semester. There was also the debut of "*Check De Scene*" an open forum for students to perform in any genre monthly.

# FACULTY OF HUMANITIES AND EDUCATION

## *Department of Literary, Cultural and Communication Studies (LCCS)*

The Cultural Studies Section hosted the first Cultural Studies practice-based exhibition entitled *Crossing Lines, Blurring Boundaries* on 16-17 June 2023. This exhibition showcased the work of 17 postgraduates who brought their artistic work into conversation with cultural studies theories. The event attracted audiences from various segments of society including artists and policymakers. The students shared the processes and methods used to inform their work. The Department envisaged that moving forward, this exhibition could be held biennially.

The Cultural Studies Section also introduced additional continuous assessment initiatives in two of its courses, CLTR 8002 and CLTR 6100. Students were asked to anonymously complete survey instruments at the end of each topic or module and this information was then analysed to address any outstanding issues in the specific topic area as well as to evaluate and enhance teaching strategies going forward.

## *Department of History*

In Semester II of the academic year under review, the History Department successfully participated in The UWI Multi Campus Teaching and Learning Initiative through its offering of the course HIST 2807 - Digital History. The course was designed and taught by Dr Debbie Mc Collin of the St Augustine Campus in collaboration with the Head of the History Department at the Cave Hill Campus in Barbados. Students from both St Augustine and Cave Hill completed the course in Semester II of the academic year 2022/2023. It is hoped that this initiative could raise the enrolment of the course moving forward.

The Department also engaged in the following events during the review period:

- CAPE Lecture Series. Online Forum. Department of History and Archaeology, UWI, Mona, Jamaica. 14 April 2023. Seminar Presented: "Decolonisation in India."
- UWI History Cross Campus Seminar. Online Forum. 17 March 2023. Seminar Presented: "The Formation of Indian Communities in the Caribbean."
- CSEC Workshop. Fatima College, Port-of-Spain. 6 January 2023. Seminar Presented: "Indian Indenture in the Caribbean."

## *Department of Modern Languages and Linguistics*

During the academic year 2022/2023 seven DMLL students participated in Study Abroad and Exchange programmes. Three second year students were selected and given a special dispensation to do Semester I of the Academic Year 2022/2023 at the Universidad de Valladolid in Spain:

- Mikaela Garnette
- Duane Millien
- Britney Reynold

Four French students were able to take up English Assistant positions in French secondary schools:

- Jade Persad
- Simran Kanhai
- Phillip Mitchell
- Amaiya Carrington

### *School of Education (SoE)*

The School of Education reported the following with respect to academic improvement for the Academic Year 2022/2023:

- Working towards the revision of the B.Ed. Primary General programme guided by the Ministry of Education's PCR curriculum.
- Revision of the In-Service PG Dip Ed programme continued.
- Proposal for a self-financing PG Dip Ed programme has been approved by The UWI. The Unit will offer the MoE's sponsored In-Service programme given the Ministry's agreement to continue to sponsor participants for the 2023/2024 academic year.
- The Pre-Service PG Dip Ed programme proposal to be reviewed with a view to offer a Pre-Service option in the near future.
- Full use of the CRM platform for reviewing & recommending of PG applicants.
- Streamlining of admissions committee for Dip Ed and Postgraduate matters.
- Programme review of the M.Ed. (Concentration in curriculum), M.Ed. (Youth Guidance) & M.Ed. Inclusive & Special Education is ongoing.
- Programme review of the renewed MATVET & the M.Ed. Health Promotion completed.
- Developed three Micro-credential Accelerator Plan (MAP) bundles for upskilling or micro-credentialing:
  - Inclusion and Youth Development in TVET
  - Keys to Evidenced-Based Literacy Instruction-Unlocking Your Potential
  - Curriculum Leadership

The work of the SOE Curriculum Committee continued with a formalised structure to ensure continuous review and evaluation of programmes at departmental level. A formal approval process was instituted at the Departmental level.

### *Staff Training and Higher Degrees*

During the Academic Year 2022/2023, various departments at the Faculty facilitated professional development opportunities for their academic and research staff. These initiatives aimed to enhance skills and knowledge across different areas of expertise.

At the Centre for Language Learning (CLL), staff members engaged in training activities in areas such as leadership specifically for administrators in the Humanities, data visualization and poster science communication, artificial intelligence in teaching, instructional video creation, online teaching, and instructional materials development.

At the Department of Creative and Festival Arts (DCFA), one staff member completed an advanced graduate studies programme in music education, while staff at the Department of Modern Languages and Linguistics (DMLL) participated in workshops covering various topics such as curriculum and assessment design with AI, business etiquette, mindfulness, and mental health in English language teaching.

Staff at the School of Education (SOE) participated in workshops on 3-D printing, artificial intelligence, and online teaching and learning.

## Research, Innovation & Entrepreneurship

### *Centre for Language Learning*

**Drs Diego Mideros, Nicole Roberts** and **Beverly-Anne Carter**, together with Professor Hayo Reinders (Anaheim University, USA and KMUTT, Thailand) were involved in a research project on Innovation in Foreign Language Learning and Teaching in the Caribbean.

# FACULTY OF HUMANITIES AND EDUCATION

A book launch event was held for a trilogy of books celebrating the CLL's First Director Dr Sylvia Moodie-Kublalsingh on 27 January 2023.

## *Department of History*

To mark the 60<sup>th</sup> anniversary of independence in Trinidad & Tobago in 2022, the Department agreed to embark on a publication entitled "Independence, Colonial Relics and Monuments in the Caribbean". **Dr Jerome Teelucksingh** and **Dr Allison Ramsay** agreed to serve as editors of the volume and secured a contract with Lexington Books for its publication.

## *Department of Literary, Cultural and Communication Studies (LCCS)*

**Dr Suzanne Burke** was awarded a US\$10,000 research grant from the CDB CIIF fund to complete the publication of the papers from the Journey Round Myself symposium which formed part of CARIFESTA XIV (2019). In collaboration with Ian Randle Publishers the publication seeks to deepen conversations around the importance of culture and creativity as vehicles for development and change in the Caribbean.

In 2022/2023 Dr Burke assumed the role of National Consultant for UNESCO's Quadrennial Report on the Protection and Promotion of the Diversity of Cultural Expressions, which entailed examining the impact of the Convention on the national cultural sector. The role as National Consultant entailed outreach to cultural groups to obtain feedback on the impact of the Convention on their everyday operations, as well as illuminating the importance of the Convention to the sector's development. The engagement culminated with the successful submission of the report to UNESCO in July 2023.

**Dr Charissa Granger** became a member of the NOW Island(er) at the Helm team, focused on co-creating research to develop sustainable and inclusive solutions for social adaptation to climate challenges in the Dutch Caribbean. This initiative operates as a transatlantic academic platform. Collaborating with the University of the Virgin Islands (UVI), the University of Amsterdam (UvA), and Technische Universiteit (TU) Delft, the University of St. Martin (USM) and offers specialised intensive courses as part of its involvement in this Transatlantic Academic Platform.

**Dr Vijay Maharaj** launched her novel *The Mystic Masseurs Wife* in August 2022 as part of the annual celebration of V. S. Naipaul's birthday. The panellists were Dr Sue-Ann Barratt, Lecturer and Head, Institute for Gender and Development Studies, **Ms Renuka Anandjit**, Research Assistant at the Institute, Dr Bhoie Tewarie past Principal of The UWI St. Augustine Campus and a Naipaul scholar, and Dr Victoria Chang, recent PhD graduate from DLCCS. It was chaired by Mr Tyrone Ali Lecturer from DMLL. The welcome address was given by the Head of Department, Dr Suzanne Burke.

**Professor Godfrey Steele** launched his book *Human Communication Studies Caribbean Scholarship: Research Knowledge and Stories*, which was published by Kendall Hunt Publishers on 18 August 2022, at the Centre for Language Learning (CLL). The book detailed the methods, processes and experiences employed to collect data for the communication studies project and was accompanied by a documentary film *Communication Connects – Human Communication Scholarship Stories from the Caribbean: A Documentary Film* that catalogued the process of writing the book and showcased interviews by some of the authors and research assistants who worked on the project.

*Department of Modern Language and Linguistics (DMLL)*

**Dr Benjamin Braithwaite** was awarded the AHRC Research Grant AH/X0097181/1 – Deaf Caribbean Network: Making Language Policy work for Deaf Communities in the Caribbean (University of Central Lancashire)

**Dr Savrina Chinien**, together with Dr Laëtitia Saint-Loubert (Postdoctoral Fellow at University College, Dublin), was awarded US\$5,000 by the Digital Library of the Caribbean (dLoC), for work on a collaborative project entitled 'Transoceanic Cultures'. Dr Chinien and Dr Saint-Loubert's project shared course materials from their unique and innovation connected classrooms project examining transoceanic journeys connecting postcolonial spaces that are rarely interrogated together despite their obvious colonial linkages (e.g. Ireland – Trinidad – Mauritius).

*Published Works for Academic Year 2022/2023*

The Department had the following number of publications for the academic year under review. Indeed, it increased its publication of books by 100% and journal articles by 11%. Meanwhile, the output for book chapters remained the same over the reporting period as shown below:

Books:

2022/23 = 4 – 2021/22 = 2

100% increase

Book Chapters:

2022/23 = 5 – 2021/22 = 5

No change.

Journal Articles:

2022/23 = 10 – 2021/22 = 11

9 % increase

*Office of the Dean - Film*

**Ms Lynnessa Parks** received funding from the Ministry of Tourism, Culture and the Arts in support of a three-week Youth Film Workshop. The workshop's objective was to introduce and train secondary school students in the art of filmmaking from concept to distribution and to position The UWI Film Programme as their first choice for tertiary education in the film industry. The UWI Film Programme also received \$10,000 from the Massy Foundation towards the Youth Film Workshop "The UWI Film Camp" held in July 2023.

Film staff and alumnus **Mr Kivonne Ramsawak** received corporate funding for his most recent film 'Choices'. TTT, Massy, Blue Waters and Carib collectively sponsored over \$70,000 towards the feature film. *Choices* is a faith-based film about a family that is faced with the issue of drug addiction and how, with God's leading, they overcame it together. The film premiered in December 2022. The alumni involved were: Kivonne Ramsawak - Director/Editor/Screenplay/Camera; Stephan De Shong - Director/ Camera/ Lighting; and Chenelle Spooner - Assistant Director.

*School of Education (SoE)*

A proposal for the development of an Inclusion Centre at the SOE stemming from the Persons with Disabilities (PWD) symposium was initiated in November 2023. International partnering between OAMK Labs, Finland and the SOE, UWI continued during the period under review.

# FACULTY OF HUMANITIES AND EDUCATION

## Strategic Review

### Access

Teaching and learning were enhanced through the upgrade of technical equipment in the Faculty's South Block classroom. The Faculty Office, in collaboration with Mr Juma Bannister of Relate Studios, developed and offered its first CPE course entitled "Practical Social Media Video Creation," which was offered during Summer 2022/2023. Various outreach activities (some virtual) took place at the Departmental levels within the Faculty. Individual surveys were also done at the Departmental level across the Faculty.

### *Centre for Language Learning*

The MoU with ICETEX for one language assistant to the CLL was reinstated. The CLL collaborated with several entities during the period under review. The Fifth Annual Japanese Speech competition was held on 30 September 2022 due to a collaborative effort with the Embassy for Japan. The CLL also collaborated with the Japan Foundation to offer the Japanese Language Proficiency Test (JLPT) on 02 July 2023.

Spanish for Business Professionals was offered to organisations such as Nestle and the Pan American Development Foundation (PADF) throughout the year, and specialised language services were also offered to the public. These included monthly IELTS Testing (Test of English), November and March offerings of DELE Testing (Spanish), and English as a Second Language (ESL) courses for both corporate and individual clients.

### *Department of History*

With the recently launched FHE Alumni Committee, the History Department has secured two alumni who will serve on this committee. During History Fest, the services of alumni were secured to judge drama and spoken word entries. In outreach to secondary schools, teachers, and former students, were contacted to identify topics on the syllabus for guest lectures and workshops. The History department has also cooperated with the Ministry of Education and retired History Lecturers in outreach to secondary schools to enhance the teaching and learning of history.

### *Department of Literary, Cultural and Communication Studies (LCCS)*

The DLCCS hosted Open Days for the UG Communication Studies and Literatures in English sections in November 2022 and March 2023, and a Cultural Studies Exhibition, on 12-13 June 2023, that attracted key industry practitioners in order to increase enrolment into the PG Practice-based programme. One of the challenges encountered included the syncing of Open Days to meet schedules of Forms 4 and 5 secondary school students. The DLCCS also took charge of the hosting of a Creative Writing Camp for young children during the Summer period 24 - 26 July 2023, however the camp had to be cancelled because the break-even of 25 was not reached. It was noted that earlier and more effective promotion strategies were needed to reach the intended goals.

Both the UG Communication Studies and Literatures in English sections hosted Student-Staff Liaison Committee meetings each semester. The feedback was immediately used to improve teaching and learning activities. The Tracer Study was conducted in Semester I 2023/2024 to obtain student feedback and absorption in the job market. The findings were used to improve student engagement.



Two members of staff – **Dr Douglas Wade Brunton** and **Dr Charissa Granger** completed CUTL, thereby improving the teaching/learning experience in the classroom for students. The hosting of student events outside of the classroom was done to improve the overall student experience, namely Campus Literature Week (27-31 March), Communications Studies Research Exposition (06 April), and Cultural Studies Exhibition (12-13 June). Digital knowledge bases were created for students to access needed information such as the LIE initiative Spaces Between Words (SBW), a podcast that showcases Caribbean writers through interviews, which was re-introduced in this year.

Several staff members attended conferences and gave presentations which are to be developed into papers. These include **Dr Muli Amaye**, **Dr Douglas Wade Brunton** & **Dr Malcolm Cocks** (Canada-Caribbean Institute Conference, Cave Hill Barbados: 23-25 Feb 2023), **Dr Charissa Granger** – Society for Ethnomusicology Conference (March 2023), **Dr Elizabeth Jackson** – West Indian Literature Conference (July 2023), and Muli Amaye – Erasmus Exchange with Birmingham City University.

#### *Department of Modern Languages and Linguistics (DMLL)*

A comprehensive curriculum review of the Teaching English to Speakers of Other Languages (TESOL) programme as it relates to access and throughput has been ongoing. However, one of the challenges encountered was that the programme was restarted in September 2023 in its current approved structure with a smaller cohort as predicted, but it will serve as a gauge to test the viability of the overall programme. Staffing had to be sourced from outside the section to fulfill all needs.

The process of designing courses to fit the Humanities Certificate to improve access to the BA French and Spanish has been ongoing. However, the French section is quite small and staff constraints to achieve programme delivery and design of courses is a challenge. The Postgraduate Diploma in Interpreting Techniques could not be offered during the academic year as the programme received too few applicants in September 2023. For the next offering, the advertising campaign will begin sooner.

#### *Department of Literary, Cultural and Communication Studies (LCCS)*

**Dr Suzanne Burke** received a Caribbean Development Bank Grant worth \$10,000 D to publish conference findings from the CARIFESTA 2019 symposium – Journey Round Myself. She also received a Caribbean Development Bank (CDB) grant worth US\$50,000 to conduct a mapping exercise of arts and entertainment venues throughout the English-speaking Caribbean entitled, “Caribbean Spaces & Places”. The release of the funds from the CDB were very delayed and therefore the project had to be postponed because the timeline for the project implementation of nine months could not have been accommodated in the allotted time.

#### *School of Education (SoE)*

In response to the national mandate to provide high quality professional teacher training to practitioners at all levels of the education system, the School of Education (SoE) continues to engage in teaching and learning, research, outreach, and public service activities.

# FACULTY OF HUMANITIES AND EDUCATION

The SoE offers a variety of programmes, ranging from the Certificate in Early Childhood Care and Education to the PhD in Education. Over the past six years the School has noted a decline in many programmes, including its flagship programme, the Diploma in Education which peaked at 377 students in 2019/2020 and dipped to 140 in 2022/2023.

In 2022/2023, staff of the DMLL conducted various outreach activities to promote the Department's programs and initiatives:

- 1. UWI-UTT Collaborative Teacher Workshops and Outreach Initiative** (27 February - 01 March 2023): Facilitators from The UWI, UTT, and primary school teachers demonstrated Translanguaging Pedagogy to 121 primary and secondary school teachers, with an additional 191 secondary school students participating.
- 2. Northeastern College Subject Selection Day (28 March 2023): The DMLL and CLL showcased The UWI Spanish programmes to Form 3 students** not interested in pursuing CAPE.
- 3. Spanish Language Day** (24 April 2023): The event featured a traditional reading of Quixote de la Mancha, with 30 readers, including 13 enthusiastic UWI students.
- 4. St George's College Career Fair** (5 May 2023): Staff engaged with students to showcase language programs.
- 5. Bishop Anstey High School Career Day** (19 May 2023): DMLL & CLL showcased French & Spanish Programs and Chinese language courses.
- 6. St Anthony's College Career Fair Day** (2 June 2023): DMLL staff answered questions about the Spanish programme for Forms 1 - 4 and Lower 6 students.
- 7. Presentation College Language and Culture Day** (4 July 2023): Engagement with students on language and culture.

**8. DMLL & DLCCS Staff Webinars:** Academic staff and postgraduate students shared scholarly projects and research findings in online seminars.

**9. DMLL Outreach and Recruitment (Open Day Let's Talk ...):** A recruitment initiative aimed to increase departmental enrolment for the Academic Year 2023-2024, targeting Form 6 students and welcoming students from all levels, held on 8-9 July 2023.

## Agility

Curriculum reviews were initiated across the Faculty to ensure that course offerings match stakeholders' needs. Departmental Tracer Surveys on the needs of industry and for graduating students were also initiated across the Faculty.

## Innovation and Entrepreneurial Projects

In 2022/2023, the FHE engaged in the several entrepreneurial initiatives. The staff was able to bring *Humankind Studios* from concept to creation. This is a revenue-earning initiative to provide cinematography and other multimedia services on a sustainable, commercial basis.

A Faculty Industry Liaison Committee, and Departmental Industry Liaison Committees was established to provide students with possible career options and internships through direct contact with members of industry. Alumni Committees were also established or revived in departments across the Faculty.

Revenue-earning Continuing and Professional Education (CPE) courses and Micro-credential Accelerator Plan (MAP) courses were created. They include CPE Courses, Practical Social Media Video Creation, Creative Writing Workshop, and Professional Development Workshops Series on Attention Deficit Hyperactivity Disorder (ADHD):

- Module 1: Introduction to ADHD: Causes, Symptoms and Identification and Intervention
- Module 2: ADHD: Behavioural Management and Intervention Planning
- Module 3: ADHD: Administration and Interpretation using the Conner's Behavioural Rating Scale.

MAP bundles for Inclusion and Youth Development in TVET, Keys to Evidenced-Based Literacy Instruction-Unlocking Your Potential, and Curriculum Leadership were also created.

### *Centre for Language Learning (CLL)*

#### *CLL Student Enrolment 2022/2023*

Overall student enrolment continued to be robust. In foreign languages there were 889 students and in ESL, there were 144 students. The CLL maintained reach beyond Trinidad & Tobago with 25 individuals not based in Trinidad & Tobago participating in CLL courses over the period. Countries represented included Argentina, Barbados, Guyana, Mexico, USA and Venezuela.

### *International Standardised Testing*

International standardised tests provided individuals with valuable opportunities to evaluate and certify their language skills, contributing to their personal and professional development.

There was a full resumption of the International English Language Testing System (IELTS) and the UK Visa and Immigration (UKVI) tests. These tests were conducted monthly, with a total of 632 candidates participating across various test sessions throughout the period. Similarly, the CLL continued to administer the Japanese Language Proficiency Test (JLPT),

providing candidates with the opportunity to demonstrate their proficiency in Japanese. This test was conducted on 2 July 2023, with six candidates taking part.

There was also a full resumption of the Diploma of Spanish as a Foreign Language (DELE) tests from August 2022. In May 2023, 20 candidates participated in the DELE test, allowing them to assess their proficiency in the Spanish language.

### *Classes Offered*

In 2022 and 2023, the Centre for Language Learning (CLL) offered a variety of classes catering to different groups and needs. For the Foreign Language Requirement (FLR) in Semester I, they provided classes in Chinese (1 class), French (1 class), Japanese (two classes), and Spanish (three classes), with a total of 86 students enrolled. In Semester II, the same languages were offered, with a slightly smaller enrolment of 72 students.

For courses open to the general public, the CLL provided an extensive range of options. In Semester I, from September to December 2022, they offered classes in Chinese, French, German, Japanese, Spanish, and Yoruba, with a total of 351 registrants. In Semester II, from January to April 2023, the offerings remained consistent, with an increased enrolment of 371 registrants. Semester 3, from May to July 2023, saw a slight decrease in offerings but still provided classes in French, Spanish, Chinese, and Japanese, with 167 registrants.

A five-day introductory course in Trinidad English was provided to 40 Cuban nurses through the North-Central Regional Health Authority (NCHRA) of the Ministry of Health. Training took place in July 2023.

# FACULTY OF HUMANITIES AND EDUCATION

## *Department of History*

In the wake of COVID 19, the History Department has increased its use of the online platform which saves time and covers much ground. Technology has also made it possible for the Department to be more efficient in keeping staff and student records and retrieving the same when needed. The opportunity to process student applications and procurement of goods and services for the Department online has also increased efficiency in operations and delivery of services.

## *Department of Literary, Cultural and Communication Studies (LCCS)*

Streamlining of course offerings to only include those with enrolment at acceptable thresholds was done during the 2022/2023 academic year. Courses with systematic low enrolment were eliminated and the number of part-time tutors were reduced. All of these initiatives have resulted in more efficient staff-to-student ratios.

Meetings with staff, both individually and collectively, were held to ensure that there is alignment between personal and professional goals. Meetings were held in the following frequency: Departmental (one per semester); Coordinators (one per month); ATS (one per month); Faculty (one per semester).

The Department requisitioned hard drives for data storage and there was a concerted effort to convert and transfer all data formatted for or stored on physical formats such as paper, CDs and Video tapes.

## *First DLCSS Graduate Tracer Survey*

The Department of Language, Linguistics, and Cultural Studies (DLCSS) conducted its inaugural Graduate Tracer Survey during Semester I of Academic Year 2022/2023, targeting alumni who graduated between 2017 and 2022. A total of 75 alumni participated in the survey, providing valuable insights into their post-graduation experiences.

The survey revealed that 81% of DLCSS graduates from the specified period were gainfully employed, with 12% pursuing further training and 7% experiencing unemployment. Additionally, 22% of respondents were self-employed, some of whom were also engaged in income-generating activities while being wage-employed.

Respondents generally reported a positive correlation between their training and subsequent employment, with the highest levels of satisfaction observed in the areas of Cultural Studies and Literatures in English (LIE). Tertiary-level degrees were noted to significantly enhance employment prospects, particularly for postgraduate participants who predominantly found roles in the educational sector. However, undergraduates faced challenges in securing related occupations, often accepting temporary or contract employment, while those with postgraduate qualifications were more likely to secure permanent roles. Work proximity impacted Communication Studies undergraduates, leading to relocation in many cases.

Despite overall satisfaction with programme structure and content, respondents offered thoughtful suggestions for improvement. They highlighted the need for stronger linkages between theoretical and practical aspects of training, emphasising the importance of expanding practical training across all programmes. Critical thinking, research, and presentation skills were identified as particularly useful across disciplines and educational levels.

### *Social Media and Web Analytics*

The Department uses major social media platforms to disseminate information as well as its website to curate content. The website is updated regularly and features information on courses, programmes, informative snippets, and timely event announcements. This approach fosters sustained engagement, reflected in the observed growth across various platforms. By actively encouraging community interaction through informative posts, the Department has successfully created a dynamic online space where the audience feels connected and informed. This strategy has proven fruitful, with sustained engagement and a growing audience, indicating the effectiveness of their approach in fostering a vibrant online community.

### **Platforms**

Website: <https://sta.uwi.edu/fhe/dlcc/>

Flickr: <https://sta.uwi.edu/fhe/dlcc/lccs-flickr-links>

Instagram: [https://www.instagram.com/uwista\\_lccs?igshid=ODA1NTc5OTg5Nw==](https://www.instagram.com/uwista_lccs?igshid=ODA1NTc5OTg5Nw==)

Facebook: <https://www.facebook.com/UWI.FHE?mibextid=LQQJ4d>

### **Highlights:**

Engaging visual content on all platforms

Timely updates about departmental activities.

Strong community interaction and feedback.

### **Insights:**

Effective use of visuals enhances engagement.

Consistent updates contribute to a connected online community.

Encouraging increased audience participation can further amplify reach.

### **Future Focus:**

Explore diverse content formats for enhanced engagement.

Leverage user-generated content for a more interactive experience.

Enhance event promotion strategies for a broader reach.

### *Department of Modern Languages and Linguistics (DMLL)*

The CITB resumed its full range of activities, from proofreading to translation to online and on-site interpreting, in Trinidad and abroad (Aruba, St Lucia). However, the reconciliation of accounts continues to be a problem between UWI's external bankers, the Bursary, and the CITB. Discrepancies in interpretation of income and expenditure continue to be an issue threatening the sustainability of CITB's staffing and making it difficult to appear attractive to our past graduates looking for employment.

Meetings are held at the departmental level at least twice each semester. At these meetings, committee chairs provide written accounts of their stewardship and share innovative ideas to move forward. Committee meetings are also held as well as meetings for special events.

The introduction of technology for assessment and grading has brought its own challenges. Some staff do not see this as their responsibility and are demanding the hiring of a designated full-time technician to handle this platform. This has implications on operating cost since it requires an additional full-time salary.

### *Office of the Dean – Film Programme*

The Film Programme hosted several public presentations over the academic year. Total audience reach amounted to 449 persons attending three film screenings, six workshops and three outreach initiatives. The screening events were most popular (41%) followed by workshops (34%) and outreach (25%).

# FACULTY OF HUMANITIES AND EDUCATION

## *The Youth Film Workshop: "The UWI Film Camp"*

The Youth Film Workshop, known as "The UWI Film Camp," spanning a period of 15 days, offered participants a holistic understanding of the intricacies of filmmaking. Designed to provide participants with a comprehensive understanding of filmmaking techniques and processes, the camp adhered to the established paradigm of film production, embracing three fundamental phases: pre-production, production, and post-production.

Structured as a blend of seminars and practical workshops, the camp provided participants with a comprehensive learning experience that seamlessly integrated theory with hands-on practice. This immersive approach aimed to equip attendees with a profound understanding of filmmaking, from conceptualization to the creation of a finished product.

The inaugural cohort proved to be quite diverse. While the "camp" catered primarily to secondary school students aged 13 to 18, the majority of participants were between the ages of 14 and 17. With sixteen male students and twenty-two female students there was a nearly equal split between genders, which worked well for the interactions among participants and mutual learning. The majority were enrolled in secondary schools, but one participant was a home-schooled student and three were Venezuelan refugees.

## *Resources*

Our film library holds a collection of over 1,000 films. There is an extensive range of content and genres including Caribbean films, documentaries, international and foreign films, early and silent as well as emerging cinemas.

## *Social Media Analytics*

The Film Programme uses social media to expand its promotional reach. Below is the data available for the period 27 April 2023 – 25 July 2023:

Facebook

- Facebook Posts Reach: 5.2k
- Facebook engagement 389

Instagram

- Instagram Posts reach: 37k
- Engagement: 3.9k
- Stories reach: 682
- Published stories: 195
- Stories engagement: 58

Tik Tok

- Followers: 535
- Tik Tok Likes: 10.5K
- Engagement and Views: 100K

Instagram and TikTok emerged as particularly effective platforms for reaching and engaging with the target audience, with Instagram excelling in reach and TikTok in engagement. While the reach on Facebook is relatively modest compared to other platforms, the engagement rate appears to be quite healthy, suggesting that the content resonated well with the audience.

## *School of Education (SoE)*

### *The Micro-credentials Accelerator Path Programme*

Two MAP bundles were created by the SoE for offer in January 2024. Several short offerings for the calendar year 2024 (ADHD workshop, Future Teacher Leaders project, etc.) were also developed. Interested persons have indicated that funding for these offerings is a challenge, therefore the School is exploring sponsorship opportunities to assist persons.

### *Psychoeducational Diagnostic and Intervention Clinic (PEDIC)*

PEDIC's contract with the Ministry of Education (MOE) continued. In March 2020, the Ministry of Education (MOE) Student Support Services Division (SSSD) contracted PEDIC to deliver psychoeducational assessments to their clients over a three-year period. During the period August 2022 to July 2023, 100 MOE clients were referred for assessment; 50 were assessed and reports completed, while the fourth list of 50 students were started in June 2023.

For the 12-month period, PEDIC earned an accrued total income of TT\$530,250.00 from governmental agencies, reflecting a 66% increase compared to the previous year when it earned TT\$319,125.00.

PEDIC was contracted by the Children's Authority of Trinidad & Tobago to provide psychoeducational and reading assessment services to its clients. For the period August 2022 to July 2023, 21 psychoeducational assessments and one reading assessment were completed for CATT.

#### **Self-referred clients:**

For the period September 2022 to August 2023, PEDIC completed 107 private psychoeducational assessments, representing a tremendous 91% increase from the previous year when there were 56 assessments.

## Outreach

### *Centre For Language Learning (CLL)*

In 2022/2023, the Centre for Language Learning (CLL) organised various outreach activities to promote cultural exchange and language education. These included a seminar on Colombian Caribbean Women Writers in collaboration with the Department of Modern Languages and Linguistics (DMLL) and the Colombian Embassy. This was followed by a Translanguaging Conference organised by the DMLL and the University of Trinidad & Tobago (UTT), in which the CLL participated.

The CLL organised the Languages for Life Secondary School Competition in early 2023, with a prize ceremony held during the CLL Open House. They also collaborated with the DMLL for the Diversity Film Festival showcasing Latin American Cinema and celebrated Spanish Language Day with a reading of Cervantes' Don Quijote.

Other cultural workshops included a Japanese Dance Workshop and Performance in collaboration with the Japanese Embassy, and a Chinese Cultural Workshop for primary school children. The CLL also expanded its remote delivery of Spanish for Specific Purposes (SSP) and introduced English as a Second Language (ESL) courses for the Pan American Development Foundation (PADF). The CLL managed two PADF projects, providing SSP courses for frontline professionals and government workers in Aruba, Curaçao, and Trinidad & Tobago, as well as ESL programmes for migrants.

The CLL also maintained partnerships with various embassies, including the Korean Embassy, which continued to support the Korea Corner at the CLL, and the Mexican Embassy, which donated a framed print to the CLL.



# FACULTY OF HUMANITIES AND EDUCATION

## *Department of History*

The History Department has supported the efforts of the International Office of The UWI to attract students to its study abroad programme. In the current semester, the Department has two students' enrolment because of this initiative - Twan Klei from the Netherlands and Justine Vadrot from France. The Department has also promoted the Certificate in Liberal Arts through its History in the School initiative, but only one participant from the 2022/ 2023 School Initiative has enrolled as a History Major. Other outreach projects undertaken by the History Department to increase student enrolment include the History Fest essay writing and drama competitions, online and face-to-face CSEC and CAPE History workshops, as well as the Let's Talk History series that continues on YouTube.

The major challenge has been converting responses to the outreach activities to enrolment in the Department's undergraduate and graduate programmes. For example, in the CAPE History Reparation workshop, as many as 200 students from secondary schools across Trinidad & Tobago attended, but the total intake of first year history students currently stands at seven.

The History Department has remained dedicated to the online process of student evaluation. Additionally, the Department has also continued the mentor/mentee system at the undergraduate level and the Student Liaison Committee meetings at the post graduate level. These have worked well in ensuring that students do not fall through the cracks and, especially at the post graduate level, it has almost eliminated the propensity of students to drop programmes.

The Department regularly shares with members local, regional, and international call for papers and has also embarked on a publication focusing on the 60th anniversary of independence in Trinidad & Tobago calling on staff to submit articles. This manuscript which should be published by Lexington Press by the end of 2024 or early 2025, is presently with the publishers. Note also that one member of the History Department in on sabbatical and is working on research with a view to publish while another is on a fellowship in Scotland, the primary objective of which is publication.

## *CSEC and CAPE History videos*

In addition to direct interactions, the Department continued the practice, started during the COVID era, of preparing and presenting online CSEC and CAPE History videos. The Department produced the following videos in connection with its CSEC/CAPE workshops for 2022/2023:

- "The 1876 Confederation Rebellion of Barbados: Causes and Consequences" – presented by **Dr Allison Ramsay** (Semester I, 2022/2023).
- "The Indigenous Peoples of the Americas" – Social, Religious, Political and Economic Organization of the Taino, Kalinago and Maya people of the Caribbean – presented by **Dr Jerome Teelucksingh** (Semester I, 2022/2023).
- "Heroes and Heroines of the 1930s Labour Movements of the Caribbean" – presented by **Dr Jerome Teelucksingh** (Semester II, 2022/2023).
- "International Relations of Cuba Post the Revolution" – presented by PhD History candidate, **Ms Ann el Bain**

The History Department also continued its outreach via their History Fest events. In 2022/2023, which marked its 9<sup>th</sup> Anniversary, History Fest was held from 1 – 3 March 2023. The theme was “Buy Local: An Examination of the Business History of Trinidad & Tobago.” It featured panel and two round table discussions by academics including retired lecturers from the St Augustine Campus, a PhD student, as well as colleagues from our sister campuses namely **Professor Kathleen Monteith, Dr Henderson Carter** and **Dr Karl Watts**.

The Department also hosted the Cross Campus Senior Academic Seminars in History in 2022/2023 as follows:

- “Winifred Atwell: A Local Profile of an International Icon” – presented by **Dr Gelien Matthews** (7 October 2022).
- “Numbers are Daily Reappearing There Whose Fortunes have been Shipwrecked Elsewhere: Exploring the Relationship between the Old Colonies and the New Frontier in the Late Eighteenth and Early Nineteenth Centuries” – presented by **Dr Dexnell Peters** (11 November 2022).
- “State-sponsored emigration as a post-disaster recovery strategy: The St. Vincent to Trinidad and British Guiana Experiment of 1898, and the 1902 scheme” – presented by **Dr Cleve Scott** (2 December 2022).
- “Formation of Indian Communities in the Caribbean” – presented by **Dr Sherry-Ann Singh** (17 March 2023).
- “New Traditions: Hunting in South Caroline Since World War II” – presented by **Dr James Tuten** (14 April 2023).
- “Making White and Black: Edward Long, Slave Owner and Historian of Jamaica” – presented by **Professor Catherine Hall** (12 May 2023).

### *Department of Creative and Festival Arts (DCFA)* *Music Performance Anxiety and You*

The Department of Creative and Festival Arts, Music Unit, and the ANSA McAL Psychological Research Centre collaborated to host an online seminar on Managing Music Performance Anxiety, presented by **Dr Daniel Ramjattan**, University of Toronto. Students of the Music Unit participated in discussions with Dr Ramjattan.

### *Arts-in-Action*

- **July-August 2022** - Implementation of **Arts-in-Action’s Beyond De BLOCC** a roving youth camp for youths 13-17, funded by JB Fernandes Memorial Trust II and UN Women in three communities in collaboration with the St. Joseph/ Maracas, St. James and Beetham Gardens Police Youth Clubs. Campers were engaged in anti-youth violence workshops and training in theatre arts.
- **September-October 2022**- Implementation of Gender and Social Issues workshops for seven youth communities in Trinidad under the Civilian Conservation Corps. These day-long workshops (Port of Spain, Sangre Grande, St. Croix, Point Fortin, Chaguana, Siparia and Mausica) were part of the JB Fernandes Memorial Trust II and UN Women funded Beyond the Block and ROLE projects towards the eradication of GBV-VAWG and youth violence.
- **Carnival 2023** - Arts-in-Action launched and took to secondary schools the Carnival production, **Love Masquerade** which formed part of Phase II of the ROLE (Un Women funded) and Beyond the Block (JB Fernandes Memorial Trust II) projects.
- **March to June 2023**: Arts-in-Action continued its work and partnership with the St. Joseph Police Youth Club as part of Phase III of the UN Women funded ROLE project

# FACULTY OF HUMANITIES AND EDUCATION

which sought to create a Youth Theatre company and YouTube Channel dedicated to the eradication of youth violence and Gender-based Violence- Violence Against Women and Girls. The team created the company name Progressive Youth Communities (PYC) Theatre.

- **July 2023:** Arts-in-Action launched and produced its **Discovery Camp 2023** at the DCFA Cheesman Building site. DC 2023 facilitated twenty-five (25) children between 5-12 years from the St. Joseph Police Youth Club and the wider UWI community and featured a look at the contributions from our East Indian national heritage-entitled **Kahani** ("Our Stories or stories from my land"). The project had as guests the current President of the National Ramleela Council of Trinidad & Tobago (NRCTT) and the serving St. James East Councillor, Mr Jameel Bisnath, Head of the Ali/Bis Hosay Yard.
- **July 2023:** Arts-in-Action's **PYC Youth Theatre** ran alongside DC 2023 and targeted the age group 13-19 years from the St. Joseph Police Youth Club and the wider-UWI community. Twenty-five (25) youths were trained in acting and stagecraft and were exposed to a Devising Theatre process which successfully produced PYC's first full-length play entitled **Bus Routes Stories**- a Romeo & Juliet influenced-story based on fictional characters and communities situated along the East-West corridor of Trinidad.

## Office of the Dean - Film

The Film Programme hosted a Youth Filmmaking workshop in July 2023. Titled The UWI Film Camp, the aim was to bringing visibility to the programme and increase in-take for both the BA in Film and the Certificate in Liberal Arts. The main challenges were limited resources and funding.

During the 2022/2023 academic year, the Film Unit conducted several school outreach visits to engage and create strong connections with prospective students but encountered challenges due to scheduling conflicts and receiving approvals for school visits. The Unit held several outreach programmes, including a Micro-Budgeting for Film workshop, an Intellectual Property workshop for creatives, a lecture and meet and greet session with head of FilmTT, **Ms Leslie Ann Wills-Caton** and **Ms Denise Deonarine**, General Manager of FILMCO.

The Unit also collaborated with many entities during the period under review to host special programmes or events. Together with the Alma Jordan Library, and the UWI Intellectual Property Help Desk a seminar was held titled, "*Intellectual Property and Film Seminar: Women and Intellectual Property - Accelerating Innovation and Creativity*"; the Unit partnered with the Department of Literary, Cultural and Communication Studies (LCCS) and FilmTT to present an immersive cinematic experience with acclaimed documentary filmmaker **Mr Peter Bailey**. The Film Unit also collaborated with The Trinidad & Tobago FILM Company to host Film Marketing and Aesthetics, a two-day workshop with film practitioner **Ms Sonja Dumas**, and with The Trinidad & Tobago FILM Company in presenting "*Demystifying Representation, A Masterclass course in Film and TV with Fele Oke*". The Unit also delivered a series of special public presentations addressing areas of interest to the local film industry, including "*An Interactive Workshop in Storytelling*". The Unit created a TikTok to complement existing social media.

In the past year, the Film Programme has been actively engaged in various initiatives related to educational outreach. In November 2022, the programme collaborated with Africa Film TT, The Cultural Studies Society, and the Black Consciousness Festival to host a screening of the impactful film "*Letters of Hope*."

The screening was followed by a thought-provoking Q&A session with the Director, **Mr Vusi Africa**, providing attendees with a deeper understanding of the film's themes and messages.

In January 2023, the programme's students took part in the Festival de Cine Global de Santo Domingo. CAPSTONE (Level III) students participated in a live virtual showcase, engaging with peers across the Caribbean and its diaspora. This platform facilitated discussions on student productions from the region, fostering a multicultural dialogue within a multilingual setting.

The programme extended its reach to local schools, hosting seminars and screenings to inspire the next generation of filmmakers. In January 2023, 44 students from Trinity College/ Bishop Anstey East High School and Hillview College were invited to The UWI Film Programme. They attended a seminar featuring screenings of films like **"The Unbreakable Virgin Islanders"** and engaged in an invigorating Q&A session with the Film students. The programme's involvement in the St. Francis Boys' College career fair and open day showcased opportunities in film education. **Mr Shea Best** presented information on the BA in Film degree and the FHE Humanities Certificate programme, while screenings of the Film Reel and alumni-produced short films provided students with hands-on experience and exposure to industry-grade equipment.

The acclaimed film *CheeSe*, directed by Trinidad & Tobago filmmaker Damian Marcano, was screened at The UWI Film Programme to an audience of over 100 persons in September 2022. The film, described by the New Yorker as "a model of what independent filmmaking should be," follows local country boy Skimma as he ventures into a new business to support his unborn child while outmaneuvering the law. The screening was followed by a Q&A segment with Damian Marcano and film producer Alexa Marcano.

### *School of Education*

The School of Education introduced two MAP bundles for upskilling or micro-credentialing. A review of programmes and courses as guided by The UWI's regulations continues to ensure that offerings remain relevant and impactful. The department has responded to issues of safety and levels of comfort raised by students in the various SSLC meetings. Some of the points noted were with regards to safety: improved lighting on the compound; and dedicated shuttle service to escort students to identified key locations after classes end at 8:00 pm Other points raised were with regards to levels of comfort: improved range of products in the in-house cafeteria; and four outdoor benches for gatherings and socialisation.

In the academic year 2022/2023, the School of Education (SOE) and the Faculty of Humanities and Education's (FHE) Outreach unit, the Psychoeducational Diagnostic and Intervention Clinic (PEDIC), engaged in a variety of impactful outreach activities, showcasing their commitment to community involvement and professional development.

The SOE initiated international collaboration by formalising a Memorandum of Understanding (MOU) with Queen's University, Canada, strengthening academic ties and fostering global partnerships.

Faculty members demonstrated their expertise through diverse engagements. Dr Paulson Skerit provided sign language interpreting services for various significant events, including TV6 News, public health press conferences, and UNICEF meetings, enhancing accessibility and inclusion.

# FACULTY OF HUMANITIES AND EDUCATION

**Dr Freddy James** contributed to the Caribbean Visionary Educators Foundation, offering professional learning opportunities through webinars, symposiums, and conferences, underscoring the Faculty's commitment to educational advancement and innovation.

**Dr Sandra Figaro Henry** offered pro-bono consultations on organisational hybridization and represented the SOE at the National Consultation on Education, advocating for digital transformation in education and influencing policy discussions.

**Dr Sabeerah Abdul-Majied** participated in the Early Childhood Caravan, furthering early childhood education initiatives and community outreach efforts.

**Dr Korinne Lousion** organised a workshop addressing toileting in children with Autism Spectrum Disorder (ASD) at the PEDIC, providing valuable support and resources for families and professionals.

Meanwhile, PEDIC conducted a series of workshops and webinars focused on mental health and neurodevelopmental disorders. These included Art as Therapy Workshops facilitated by Mr Shay Grant, an online webinar on Autism Spectrum Disorder, and planned professional development workshops on Attention Deficit Hyperactivity Disorder (ADHD), demonstrating the clinic's commitment to holistic support and education.

## Impact

*Centre for Language Learning (CLL)*

*Languages for Life Secondary School Competition 2023*

The CLL continued to inspire teenage students to reflect on the value of foreign language learning for their personal and professional development. The biennial language competition

was held in collaboration with the Ministry of Education. During the period, 9 January – 27 February 2023, fourth to sixth form students were invited to produce content on the theme “Foreign Languages – A Gateway to the World”. This year's contest was particularly impactful, given the submission of 127 entries from students in 29 schools throughout Trinidad. 17 winners were selected from among the four categories: essay, spoken word piece, poster and short film, and a special prize was awarded, for the first time since the competition's inception, to a promising 16-year-old from Northeastern College.

As is customary, a selection of the winning submissions was showcased at the CLL's Prize Giving Ceremony. This year, the winner of the spoken word category was invited to perform her piece in front of a live audience of her peers. At the end of the ceremony, the mother of the 17-year-old from Rio Claro West Secondary, commented on how grateful she was that the competition was organised and that it was open to schools in rural communities. While her daughter was visibly nervous during her performance, she persisted and performed her spoken word piece much to the delight of all in attendance including her extremely proud mother.

*Department of Creative and Festival Arts (DCFA)*

Nine students from the THEA 3302 Educative Theatre II class accompanied four Arts-in-Action Artist-Facilitators (including lecturer, **Mr Brendon Lacaille**) to a workshop for 70 MIC students at the Pleasantville MIC Campus in southern Trinidad, as part of the Educative Theatre Workshop/Production assignment.

A team of two students conducted a highly successful TIE workshop for 19-23 members of the St. Joseph Police Youth Club (13-17 age group) on in April 2023 as part of the Final TIE Project (Theatre-in-Education, Practitioner's Certificate in Drama and Theatre-in-Education) assignment for course THEA 0505.

*Department of Literary, Cultural  
and Communication Studies (LCCS)*

**Dr Geraldine Skeete** of the Literatures in English Section spearheaded a reading club at the Couva Anglican Primary School. The programme engaged the students in reading after school and also provided them with books to improve the literacy skills. In July 2023, the club visited the Couva Public Library, and the children all became members of the library. The Couva Anglican School Book Club illuminated how literature and reading can shape and change the lives of young children in Trinidad & Tobago. Testimonials from the children themselves and their parents underscore the difference the reading club has made in the lives of the club.

**Ms Deborah Matthews** (PhD candidate) Cultural Studies was shortlisted for the Commonwealth Short Story Award (April 2023). The following is a summary of the Award and Ms Matthews' story being named in the official press release. Twenty-eight outstanding stories were shortlisted by an international judging panel for the world's most global literature prize. The writers came from 19 countries across the Commonwealth, and the shortlisted entries tackled subjects from illness, human trafficking and decay to relationships and hope – as well as family secrets, growing up gay in a hostile world, generation gaps, bittersweet friendships, and making one's way in the world of work. They spanned genres from speculative and comic fiction to historical fiction and crime.

The Commonwealth Short Story Prize is awarded annually for the best piece of unpublished short fiction from any of the Commonwealth's 56 Member States. It is the most accessible and international of all writing competitions. The stories on the 2023 shortlist were selected from a total of 6,642 entries from 56 Commonwealth countries.

*Department of Modern Languages and Linguistics*

The 17 MA Speech and Language Pathology students produced a series of five public webinars in July 2023 covering the following topics:

- Acquired Cognitive Disorders
- Aphasia
- Dysphagia
- Motor Speech Disorders
- Voice and Resonance Disorders

*Dean's Office – Film Programme*

The Alumni of the STA UWI Film Programme continue to soar and create meaningful impacts within the discipline of Film, locally, regionally and internationally. In February 2023, alumni **Mr Andrei Pierre, Mr Jian Hennings** and **Ms Sophie Walcott** attended the Berlinale Talent Campus, Berlin Film Festival, Germany, where the trio were mentored and networked as emerging international film talents. In May 2023, final year student **Mr Akkel Charles** was selected for the impACT Lab at the Cannes Film Festival in France. Graduate and film staff Mr Shea Best's student short film *Darkie* was distributed and licensed via Studio Anansi to both Trinity College (US) and Florida International University.

# FACULTY OF HUMANITIES AND EDUCATION

## Distinguished Visitors

### *Office of the Dean*

#### **Ms Melina Hill Walker**

Program Director at Endowment for Health  
Harvard TH Chan School of Public Health,  
Hanover, New Hampshire, USA  
*(Ms Hill is also the Sponsor of the Errol G. Hill Prize at FHE)*

#### **His Excellency Fernando Nogales Alvarez**

Ambassador of the Kingdom of Spain

#### **Dr Orlando De La Vega Luna**

General Director of International Affairs of the University of Valparaíso  
On behalf of Chilean Embassy

#### **His Excellency Didier Chabert**

Ambassador of the French Republic

#### **Ms Christel Outreman**

French Regional Counsellor for Cooperation, French Embassy

### *Centre for Language Learning*

#### **Andre Bueno**

Cultural Attaché  
Embassy of the Federative Republic of Brazil

#### **Barbara Sifontes**

Assistant  
Embassy of Colombia

#### **Cheryvelle Gómez**

Deputy Head of Mission  
Embassy of the Dominican Republic

#### **Christopher Thomas**

Translator  
Embassy of Colombia

#### **H.E. Didier Chabert**

Ambassador of the French Republic

#### **H.E. Fang Qiu**

Ambassador of the People's Republic of China

#### **H.E. Alvaro Sánchez Cordero**

Ambassador of the Bolivarian Republic of Venezuela.

#### **H.E. Didier Chabert**

Ambassador of France

#### **H.E. Dong-il Oh**

Ambassador of the Republic of Korea

#### **H.E. Fernando Nogales**

Ambassador of Spain

#### **H.E. Ute König**

Ambassador of the Federal Republic of Germany

#### **H.E. Víctor Hugo Morales Meléndez**

Ambassador of the United States of Mexico

#### **H.E. Yutaka Matsubara and Mrs Matsubara**

Ambassador of Japan

#### **Leanna Joy Seelochan**

Assistant to Ambassador Embassy of the Dominican Republic

#### **Liz Carolina Lozano Garzón**

Second Secretary, Cultural, Matters and Communications  
Embassy of Colombia

#### **Martha Cecilia Pinilla Perdomo**

Ambassador of Colombia.

#### **Mr Flavio González**

Embassy of the United States of Mexico

#### **Mr J. Oyi**

Minister and Deputy Head  
Nigerian High Commission

#### **Mr Liu Peng**

Political Director  
Embassy of the People's Republic of China

#### **Mrs Esther Gomo**

Head of Chancery Nigerian High Commission



**Ms Liz Carolina Lozano Garzón**

Second Secretary, Cultural Matters and Communications  
Embassy of Colombia

**Ms Valerie Laboy**

Economic and Commercial Officer  
Embassy of the United States of Americas

**Ms Zhou Congyu**

First Secretary  
Embassy of the People's Republic of China

*Film*

**Dr Suzanne Burke**

Head of Department - Literary, Cultural & Communication Studies  
The University of the West Indies, St. Augustine

**Mr Keegan Taylor Stunt**

Coordinator and Filmmaker

**Mr Michael Mooleedhar**

Alumni/Filmmaker

**Mr Nikolai Noel**

Artist

**Mr Simon Baptiste**

CEO  
Question Mark Entertainment, Owner of Odos

**Mr Vonley Smith**

Documentary Filmmaker  
Barbados

**Ms Asha Lovelace**

Filmmaker Owner Francis Trace Productions, Director – Africa Film  
Trinidad & Tobago

**Ms Deboleena Paul**

BA in Dance Coordinator and Lecturer  
The University of the West Indies, St. Augustine

**Ms Denise Deonarine**

General Manager Filmco - Filmmakers Collaborative of Trinidad & Tobago

**Ms Hira Hosein**

Alumni/Filmmaker

**Ms Latisha Leslie**

Alumni/Filmmaker

**Ms Leslie-Ann Wills-Caton**

Commissioner FilmTT

*Literary, Cultural and Communication Studies*

**Professor Aaron Kamugisha**

Programme Coordinator and Professor in Cultural Studies  
Cave Hill Campus, UWI

**Professor Susan Harewood**

Associate Professor  
University of Washington

*History*

**Dr Arie Boomert**

Retired Professor of Archaeology of The University of Leiden, the Netherlands

**Professor Cristina Gonzalez Caizan**

University of Warsaw, Poland.

**Dr Rajini Haraksingh**

Department of Life Sciences of The UWI, Trinidad

**Dr Corinne Hoffman**

University of Leiden, The Netherlands

**Mr Jack Jay**

Missouri State University, Missouri, USA

**Mr David Lewis**

Honorary Consul of the Republic of Poland to the  
Republic of Trinidad & Tobago, Poland

**Professor Emeritus Neal Lopinot**

Missouri State University, Missouri, USA

**Ms Margaret McDowell**

Chair of the National Trust of Trinidad & Tobago, Trinidad & Tobago

**Mr Fernando Nogale**

Ambassador of Spain to the Republic of Trinidad & Tobago, Spain

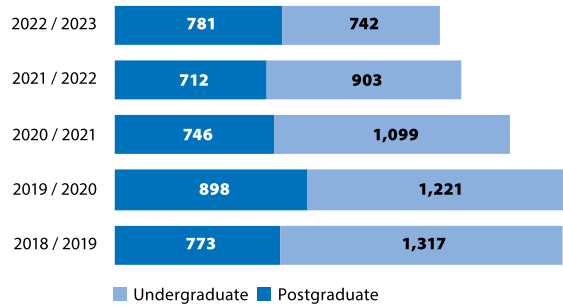
**Professor Jan Stanislaw Ciechanowski**

Retired Professor of History University of Warsaw, Poland

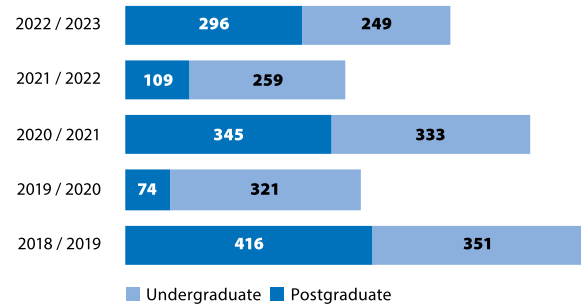
# FACULTY OF HUMANITIES AND EDUCATION

## Enrolment & Graduation Trends

### Enrolment Trends – Humanities & Education



### Graduation Trends – Humanities & Education





# FACULTY OF LAW

## Dean's Summary

During the 2022-2023 academic year the Faculty of Law maintained its excellent academic performance in administering both the undergraduate and postgraduate programmes. Despite being affected by change in Deanship during the period under review, the Faculty of Law transitioned smoothly with an interim acting Dean. **Professor Raphael J. Heffron** resigned from the post of Dean in September 2022. **Dr Timothy Affonso** was appointed as the Acting Dean for the rest of the academic year (from September 2022 to the end of July 2023).

Dr Alicia Elias-Roberts  
**Dean**



There was a return to in-person teaching and the Faculty used this opportunity to organise several outreach activities and scholarly initiatives. All of the academic events which were undertaken by the Faculty are aligned to Phase II of the UWI's Triple-A strategy - the *Revenue Revolution* and *Access, Alignment and Agility*. For example, income generating projects, such as a "Procurement Workshop" was launched. Also, the Faculty of Law's LLM programme, which is self-financed, continues to grow, thereby increasing profits considerably. Overall, undergraduate withdrawals continued to decline, and postgraduate student enrolment increased.

The Faculty prepared for a Quality Assurance Review (QAR) exercise with the Quality Assurance Unit of the UWI St. Augustine Campus. Several meetings were held with the Quality Assurance Unit to assess the extent to which the Faculty had responded to the remarks made during the last QAR and to generally assess the fitness for purpose of the Faculty's academic programmes and the extent to which its aims and objectives are achieved. This exercise, which will cover the academic period 2018/2019 to 2022/2023, is geared toward ensuring that our students/stakeholders are getting the maximum benefit from the Faculty.

## Faculty Highlights

### STAFF

#### *Appointments*

The Faculty sought to address staffing shortages by advertising five vacant positions, including one Senior Lecturer and four Lecturer roles. After interviews, recommendations were made to appoint three new Lecturers and one Senior Lecturer, but only two Lecturers accepted offers. With only six permanent full-time academic staff members serving over 500 students during the 2022/2023 academic year, the Faculty plans to continue recruitment efforts to fill staffing gaps in the upcoming academic year, 2023/2024.

In the midst of these staffing changes, the Faculty welcomed Dr Timothy Affonso as the new acting Dean. Operationalisation of the Faculty's academic programmes continued to heavily rely on adjunct lecturers, temporary full-time lecturers, and tutors due to the ongoing shortage of permanent staff. Nevertheless, the Faculty remained steadfast in its commitment to maintaining academic rigor, ensuring the curriculum remained updated and relevant, fostering a conducive and supportive learning environment, and striving for impactful research outcomes.

## Teaching

The Faculty ensured that academic staff maintained efficient teaching loads. Proposals for two new courses - International Wealth Management and Advanced Sports Law, were approved by the Faculty Board. The Faculty also sought amendments to the LLM programmes in Oil, Gas & Energy Law and Legislative Drafting to meet the requests of persons interested in enrolling in stand-alone courses as part of their individual professional development.

### STUDENTS

#### *Enrolment Overview*

The study of law continues to be in high demand and as such the Faculty of Law continues to be a much sought-after faculty, attracting applicants with high quality academic qualifications, including first-degree holders and national scholarship winners. Students were selected on a competitive merit basis which resulted in increased student intake numbers. The Faculty also maintained its policy of adjusted entrance criteria for regional students, applicants from law enforcement and mature students, who may not otherwise meet the traditional requirements.

# FACULTY OF LAW

## Graduation Overview

The number of graduates in the Faculty's undergraduate and postgraduate programmes endured continued to increase. Student dropouts on average continued a trajectory of declining.

### *Dean's Honour List (LLB)*

The Dean's Honour List which highlights students who have attained a GPA of 3.60 and above in Levels 1, 2, and 3 of each Semester of the academic year continued to be a popular incentive for student performance.

### *Performance Monitoring*

In an effort to properly manage the output of the Faculty, a system for tracking postgraduate students data was introduced. Consisting of a QR Code for registration the measure helped the Faculty track data from its events using Google docs and led to revised internal procedures for tracking PhD applications.

### *Prize-Award Ceremony*

The Faculty of Law held its Prize Award ceremony in-person at the Teaching and Learning Complex. This was a return to an in-person ceremony, since the two previous ceremonies were held virtually. The event was highly anticipated by the students.

The theme for Prize Award Ceremony for the 2022/2023 graduating cohort was "Rewarding Resilience: Building on the Past as We Look to the Future." It was held on 21 October 2022 at the Teaching and Learning Centre (TLC). The feature speaker was the **Honourable Mr Justice of Appeal Ronnie Boodoosingh**. His speech was published in the UWI St Augustine Law Journal, Vol.1, No.1, January 2023, pp.118-121.

### *Student Experience – Paid Internships*

The Faculty of Law is committed to the development of the student experience. The Faculty continues the internship schemes to offer students a real-world practical experience. This allows students to develop critical skills to enhance their professional development while building their networks. The Faculty partnered with the following institutions to provide Paid internship experience for our students:

- Linklaters LLP (an international law firm)
- The Trinidad & Tobago Fair Trading Commission

## Research

### *UWISALJ*

The UWI St. Augustine Law Journal (UWISALJ) is a new law review journal that was launched in the 2022/23 academic year. The journal focuses on legal scholarship which is of relevance to the legal community in Trinidad & Tobago, the wider Commonwealth Caribbean and beyond. The UWISALJ will be an avenue for the exposure of critical legal writing that can add value to the legal profession in practice, academia, civil society and legal education. All submissions are assessed by a qualified Editorial Committee comprising Judges, practitioners and academics. The UWISALJ is not limited to any specific area of law and all submissions are welcomed from authors in areas of both procedural and substantive law.

There will be one volume published every year. This will be cited as 202X UWISALJ. The volume is dependent on submissions in any given year. There may also be additional special volumes as determined by the Editorial Committee. Submissions are welcomed on a rolling basis.

## Outreach

The Faculty continues to strengthen our collaboration with key stakeholders, including the private sector, NGOs, the Trinidad & Tobago Law Association, leading law firms, state and international institutions, to organise and implement mutually beneficial workshops, conferences and other activities.

The Faculty of Law recognises the importance of activities to attract potential student intake. As a result, the Faculty continues to promote our Social Media accounts on LinkedIn, Twitter, YouTube. The Faculty also continued to promote our Intellectual Property Law Blog (IP Archipelago).

### *In-person Hague Inter-University Law Debate Tournament*

The Faculty made a remarkable debut at the Hague Inter-University Law Debate Tournament in 2023. Team members - **Mr Marvin Williams, Ms Suana Sookdeo, and Ms Leanna Lutchman**, showcased exceptional skills and reached the quarter-final rounds under the guidance of **Dr Alicia Elias-Roberts**. The tournament, organised by the Corax Foundation, provided a platform for students to explore a variety of legal topics and hone critical skills like research and argumentation.

Despite fierce competition from over 30 universities worldwide, The UWISTA team excelled in debates covering themes such as global environmental security and international equality. Their victories over renowned institutions underscored their prowess and commitment to excellence. The tournament also offered cultural and educational experiences, including visits to significant international organisations and immersion in Dutch culture.

While the team fell short of winning the ultimate prize, their participation was about more than just competition. It deepened their passion for legal studies and expanded their understanding of international law. The UWI Faculty of Law commends the team and their coaches for their outstanding performance, which not only brought pride to The University but also exemplified its dedication to fostering brilliant legal minds ready to make a global impact.

### *In-person XIII Annual Caribbean Court of Justice's (CCJ) International Law Moot competition*

On Friday 17 March 2024 the CCJ International Law Moot competition had a return to in-person competition. Last year's competition was conducted virtually for the first time in the Moot's history following a two-year hiatus caused by the COVID-19 pandemic. Seven law schools and law faculties from throughout the region participated in the competition this year. The Norman Manley Law School was declared the winner of the XIII Annual Caribbean Court of Justice's (CCJ) International Law Moot competition. The St Augustine Faculty of Law was represented by a team of law students comprising **Mr Dylan Kalloo, Ms Selene Dookeran and Mr Renaldo Ramjohn. Dr Alicia Elias-Roberts** was the team's Advisor. The team performed admirably, even though they did not win any prizes. This was the first Moot to be held in person since 2019.

### *Collaborations with External Stakeholders*

The Faculty of Law recognises the importance of partnerships with external stakeholders. Due to the limited opportunities which exist for students to directly interact with the legal community, the need for this became critical. The pathway was created, and partnerships were formed with the below

# FACULTY OF LAW

agencies/ bodies and we look forward to their continued support. These collaborations included:

- The Law Association of Trinidad & Tobago
- The Public Defenders Department
- Multidisciplinary discussions involving a psychologist, criminologist and defence attorneys.

## *MOUs and Honorary International Fellows*

**Mr Terrence Wendell Brathwaite**, of the Coventry University Law School, was re-appointed Honorary Fellow at the Faculty of Law and continued to work.

## *Financial Income and Initiatives*

The Faculty launched a "Procurement Workshop" as part our revenue-generating activities. It was held on one day and it was a huge success with 68 participants/registrants. The Faculty's LLM programme which is self-financed continues to grow thereby increasing profits considerably.

## *Faculty Events*

The Faculty of Law recognises the importance of activities to attract potential students and improve the overall student experience. The below events were introduced with the expectation that some of the events will continue annually.

- The Research Skills Series
- CCHR Strategic Litigation Workshop
- World IP Day (YouTube Stream available)
- Annual Career Development Series
- Interdisciplinary Lecture Series
- Indigenous Lecture Series
- Panel Discussion: Is Strategic Litigation necessary?
- Lord Learie Constantine Lecture Series (UWI Legal Cinematic Review Reparations for the Descendants of Enslaved Africans)

- Procurement Workshop (Paid workshop)  
All Faculty events are published on our Social Media (LinkedIn, Twitter, YouTube).

## Strategic Review

### **Access**

The Faculty of Law continued to adhere to the University's entrance policy introduced in response to COVID-19 challenges, allowing admission based solely on CAPE UNIT 1 or CAPE UNIT 2 results. A Procurement Workshop was introduced to help businesses and organisations navigate the requirements of the new Procurement Act of 2023. To enhance teaching and learning quality, the Faculty improved collaboration between course directors and tutors to deliver a superior educational experience. They also maintained internship programmes, providing students with practical experiences for their professional development.

Lastly, to boost high-impact research, the Faculty continued to recruit industry experts part-time. This approach enabled students to apply theoretical knowledge to real-world scenarios, enhancing their understanding and satisfaction.

Through these efforts, the Faculty of Law remained dedicated to promoting access, excellence, and inclusivity across the academic community.

### **Alignment**

The Faculty recognises the importance of alliances and relationships formed with external stakeholders considering how few opportunities there are for law students to engage directly with the legal community. As a result, a special route was created, resulting in the establishment of alliances with



the institutions and groups mentioned below and the Faculty looks forward to their continued assistance. The cooperative endeavors included:

- The Law Association of Trinidad & Tobago
- The Public Defenders Department
- Multidisciplinary discussions involving a psychologist, criminologist and defense attorneys.

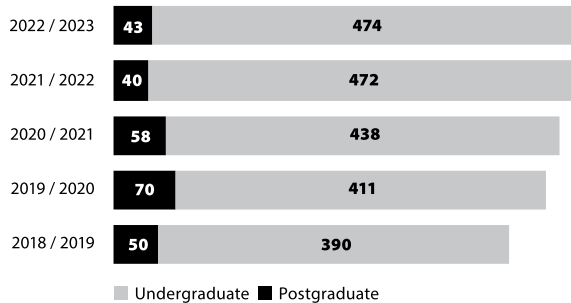
**Agility**

The launch of the first paid virtual Procurement Workshop in response to the newly established Procurement Act 2023. This event was a revenue-generating activity and allowed the Faculty of Law the opportunity to set the relevant operating systems to facilitate similar virtual revenue-generating activities

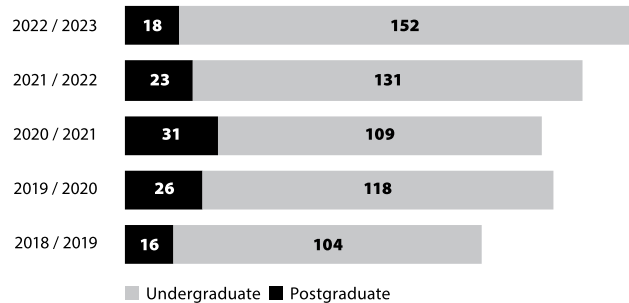
in the future. The Workshop was a virtual event which was an attractive feature to many working professionals. As the first to accommodate so many virtual attendees, it helped the Faculty identify technology gaps that would ensure greater attendee enrolment and participation in future events.

Enrolment & Graduation Trends

**Enrolment Trends – Law**



**Graduation Trends – Law**



# FACULTY OF MEDICAL SCIENCES



Professor Hariharan  
Seetharaman  
**Dean**

## Dean's Summary

The Faculty of Medical Sciences comprises the School of Medicine with Pre-Clinical, Para-Clinical, Clinical Medical and Clinical Surgical Sciences Departments, School of Dentistry, School of Pharmacy, School of Nursing and School of Veterinary Medicine. The return of face-to-face delivery of courses, as well as assessments after three years of pandemic-related remote delivery arrangements was indeed a challenge; however, all the Schools forged ahead and have successfully resumed the pre-pandemic modes of teaching and learning. Also, in the research and publications front, academic staff members from all the Schools continue to excel.

The Department of Pre-Clinical Sciences had research and scholarly output in the form of five conference presentations, nine peer reviewed journal articles (with 182 citations to date), and new editions of two books. Researchers also brought to the UWI over US\$850,000 in grant funding and approximately US\$1,237,135 in in-kind support in the form of major equipment, reagents, and supplies. National and Campus Awards were received by the Head of the Department. The transition to face-to-face course delivery impacted undergraduate students; there was low class attendance, low levels of engagement during teaching sessions and high failure rates in the Semester I examinations. Soliciting feedback from students, the Department engaged in remedial measures and addressed the situation.

The Department of Para-clinical Sciences introduced the DM Medical Microbiology programme in January 2023 and accepted its first cohort of students in July 2023. The Department's research output amounted to 46 projects, many of them published. The Department collaborated with Wellcome Sanger Institute, UK and organised a webinar.

The Department of Clinical Medical Sciences has developed new postgraduate programmes - DM in Medical Oncology and the Fellowship in Cardiovascular Medicine to provide access to specialist training for clinicians to meet the national need. The Head of the Department received yearly grants from American Society of Hematology – US\$10,000/annum, Sick Kids Initiative – SCI: CA\$ 24,000/annum.

The Department of Clinical Surgical Sciences introduced a Fellowship in Thoracic Surgery, approved by the Board for Graduate Studies & Research (BGSR), for the first cohort to be accepted in January 2024. Based on the recommendation of

the Quality Assurance Team, the Department also compiled its first Quality Assurance Manual. The Department is in dialogue with the Royal College of Surgeons to introduce Care of the Critically Ill Surgical Patient (CCrISP) as a workshop. Forty-one articles were produced in peer-reviewed journals from the Department. The Optometry Unit has been contributing significantly to the field in terms of research. Publications in reputable journals have covered diverse topics such as the impact of online e-learning on ocular complaints among schoolchildren during the COVID-19 lockdown.

The School of Dentistry undertook a review conducted by the American Dental Association's Commission on Dental Accreditation standards for undergraduate dental programmes. Of the 64 standards, the School was found to be fully compliant on 37, partially compliant on 19 and non-compliant on eight. The School also received funds for the Special Needs Clinic from multiple donors.

The School of Pharmacy won three prizes at the Faculty's Student Research Day and the staff of the School were able to gain seven patents, and four grants. The School is moving ahead with proposals to move to the Couva Multi Training Facility and also the Pharm D programme from the next academic year.

The UWI School of Nursing, as one of its key initiatives, added the BSc Midwifery as a new programme offering. The School continued to forge critical linkages with strategic partners internationally including student exchanges with Columbia University and Birmingham City University. The School has also had success in the area of research with the completion of a national research project on Respectful Maternity Care in collaboration with the Caribbean Regional Midwives Association, funded by the United Nations Population Fund (UNFPA).

# FACULTY OF MEDICAL SCIENCES

The School of Veterinary Medicine introduced major reforms in its curriculum including:

- Adopting the programme for assessment of veterinary education equivalence (PAVE ®) pathway
- Introducing the Competency Based Veterinary Education Framework
- Introducing professionalism and ethics and clinical training from year 1
- Sequencing courses to enable students to begin clinical training in year 3.

Staff members were appointed by Cabinet to serve on the Board of the Caribbean Fisheries Training and Development Institute; the Board of the Livestock and Livestock Authority, and the World Organization for Animal Health (WOAH), Biological Standards Commission.

The Caribbean Centre for Health Systems Research and Development (CCHSRD) celebrated its fifth anniversary. The Director received the Caribbean Public Health Agency (CARPHA) 2023 Research Award for Outstanding Contribution to Building Research Capacity and Advancing Evidence-informed Health Policy. Funding was received in the tune of US\$42,000 from the University of California, San Francisco for a research project.

In accordance with the Triple A strategy of the UWI, the Faculty's vision for 2023/2024 include (but not limited to) digitalization of many processes including staff evaluations, standardizing Faculty Regulations across the Schools including the fees for repeat courses, harmonizing curricula and assessments across the Campuses in School of Medicine, enhancing the relationships with the Regional Health Authorities and Ministry of Health and contributing for their vision of expanding healthcare services and continue to encourage research output.

## Anniversaries, Achievements & Awards

### SCHOOL OF MEDICINE

#### *Department of Pre-Clinical Sciences*

##### *Awards*

**Professor Christine Carrington** received a Trinidad & Tobago National Award (Chaconia Medal Gold) for her contributions to virology. (September 2022)

#### *Department of Para-Clinical Sciences*

##### *Achievements*

**Dr Kenneth Charles**, Senior Lecturer - Haematology, and Director of the UWI Blood Donor Foundation hosted a blood drive to commemorate UWI's 75th anniversary on 25 April 2023. Seventy-eight units of blood were collected.

##### *Awards*

**Dr Raveed Khan** was Awarded Best Student Oral Presentation for Undergraduate students at the 2022 National Health Research Conference hosted by the Ministry of Health. The group was supervised by Dr Khan and the title of the research was *"The Effectiveness of Telemedicine on the management of Chronic Diseases (Diabetes, Hypertension and Coronary Heart Disease) at the Eastern Regional Health Authority (ERHA) Primary Health Care Facilities during the COVID-19 Pandemic"*. November 2022.

**Dr Arlene Williams-Persad** was awarded the Young Talent Award 2023 at the Indo-Caribbean International Symposium in February 2023; and the "Distinguished woman in Immunology" by the Latin American and Caribbean Congress of Immunology for her work on the treatment and management strategies of chronic granulomatous disease (CGD). The award took place at the 13<sup>th</sup> triennial conference.

### *Department of Clinical Medical Sciences*

#### *Awards*

**Dr Stanley Giddings**, Lecturer in Adult Medicine received the Scroll of Honour from the Trinidad & Tobago Medical Association, for distinguished achievement in the field of Infectious Diseases in January 2023.

### *Optometry Unit:*

#### *Achievements*

The American Academy of Optometry during their international conference held at the United States of America, hosted three posters from the Optometry Unit, and the Unit was represented by three of students. The graduating cohort of the academic year 2022/2023 had one first class student.

## **SCHOOL OF VETERINARY MEDICINE**

### *Staff Achievements*

#### *Veterinary Student Association Inaugural*

#### *White Coat and Pinning Ceremony*

Students at the School of Veterinary Medicine organised the first white coat and pinning ceremony for veterinary students. The white coat and pinning ceremony symbolise the collective commitment of the veterinary student at The University of the West Indies to uphold the same professional commitments that bind all medical professionals. It is also a public declaration of their understanding and willingness to accept the obligations which come with undertaking the training as a veterinarian, especially as they transition into the clinic programme.

### *Staff Achievements*

**Professor Christopher Oura** was listed among the top World's Top 2% Scientists in 2021 and 2022 from the database compiled by Stanford University, USA. Professor Oura was also re-elected to the Biological Standards Commission of the World Organisation for Animal Health (WOAH) for a second term.

### *Awards*

**Dr Candice Sant** was awarded a Wellcome Connecting Science competitive bursary to attend a course on "WCSC Next Generation Sequencing Bioinformatics" in Santiago, Chile from 22 to 27 January 2023. She was one of the 20 participants who received this bursary award that covered expenses such as travel, accommodation and workshop fees and the only person selected from the Caribbean.

**Dr Michael Morris** - Awarded Fellow of the Royal College of Veterinary Surgeons on the grounds of Meritorious Contributions to Clinical Practice. July 2023

### *Alumni Achievements*

#### *Professor Naola Ferguson-Noel*

#### *Named Fellow of the National Academy of Inventors*

**Professor Naola Ferguson-Noel**, DVM class of 1996 and a researcher at the Poultry Diagnostic and Research Center at the University of Georgia College of Veterinary Medicine, was inducted in June 2023 as a fellow of the National Academy of Inventor which is a United States based organisation comprising of over 4,000 members and 1,567 fellows including Nobel laureates. Professor Ferguson-Noel's research has made sterling contributions in the field of avian *Mycoplasma gallisepticum*, a disease that affects poultry worldwide. Professor Ferguson-Noel is the co-inventor of two patented Mycoplasma vaccines.

# FACULTY OF MEDICAL SCIENCES

## Research

### SCHOOL OF MEDICINE

#### MAJOR PROJECTS COMPLETED OR INITIATED

##### *Department of Pre-Clinical Sciences*

Research in the Department resulted in five conference presentations at the local, regional, and international levels, nine peer reviewed journal articles which to date have garnered 182 citations, and new editions of two books. Additionally, researchers in the Department attracted over US\$850,000 in grant funding and approximately US\$1,237,135 in in-kind support (equipment, salaries, reagents, and supplies) to the Campus. Results from projects completed or underway have implications for cancer diagnosis and treatment, COVID-19 vaccines, monitoring and control, future pandemic preparedness, prevention, diagnosis, and treatment of viral diseases of public health importance in the Caribbean, diabetes, neurodegenerative disease, and other non-communicable diseases.

*SARS-CoV-2 genomic surveillance and capacity building to respond to future infectious disease health emergencies in the Caribbean sub-region.*

**Investigators: N. S. D. Sahadeo, S. Nicholls, V. Ramkissoon, A. Ramjag, A. Brown-Jordan, N. Mohammed, C. V. F. Carrington.**

This project provided continued SARS-Cov-2 genomic surveillance for T&T and the Caribbean sub-region and strengthened systems for genomic surveillance for SARS-CoV-2 and future infectious disease health emergencies. This was achieved through (i) acquisition of human resources and critical and high use consumables for continued sequencing service to public health institutions; (ii) hosting of visiting researchers and training activities that expanded genomic surveillance technical

capacity beyond SARS-CoV-2 to inform other public-health issues and research areas of interest and (iii) development of a business plan for sustained operation of a pathogen genomics and infectious disease research laboratory. This project provided continued SARS-Cov-2 genomic surveillance for T&T and the Caribbean sub-region and strengthened systems for genomic surveillance for SARS-CoV-2 and future infectious disease health emergencies.

##### *Capacity Building for Pandemic Preparedness*

**Investigators: N. S. D. Sahadeo, S. Nicholls, V. Ramkissoon, A. Ramjag, A. Brown-Jordan, N. Mohammed, C. V. F. Carrington.**

This project developed laboratory infrastructure through acquisition of laboratory liquid handling robots and support for human resources to sustain capacity for pathogen genomic surveillance in the Caribbean thus strengthening the regions preparedness for COVID-19 and future infectious disease health emergencies in the Caribbean subregion. This project strengthened systems for genomic surveillance for SARS-CoV-2 and future infectious disease health emergencies in the Caribbean.

##### *The Relationship between Vitamin D, Neurocognition, Alzheimer's Disease (AD) and Parkinson's disease (PD)*

**Investigators: BS Nayak** and T Bain

Previous studies using Mini Mental State Examination (MMSE) and serum vitamin D concentration measurements showed that vitamin D deficiency may have a role in AD and PD. The aim of this cross-sectional study was to determine whether there is a relationship between vitamin D3 deficiency, AD and PD. The results showed a relationship between vitamin D levels and AD and PD patients which can shed light on other therapeutic modalities for treatment of these neurodegenerative diseases.

*The prevalence of undiagnosed chronic kidney disease by eGFR and albumin creatinine ratio in Trinidadian Primary Care patients with non-communicable diseases (NCDs): A Cross-Sectional Study.*

**Investigators:** K Mahadevappa, **S Nayak**, **RG Maharaj**

Among patients with non-communicable diseases (NCDs), the silent development of impaired renal function is referred to as chronic kidney disease (CKD). Untreated, this often leads to renal failure and dialysis. This was a cross-sectional study of adults aged 20 years and over, diagnosed with type 2 diabetes mellitus and/or hypertension, with no previous history or record of CKD and attending three chronic disease clinics (CDC) in the ERHA. Patients were screened for CKD using the albumin creatinine ratio (ACR) determined with a Mindray BS800 by the modified kinetic Jaffé method with an autoanalyser. The eGFR was calculated based on serum creatinine using the CKD EPI 2009 equation. Our results showed a significant association between age, systolic hypertension, and the severity of CKD. CKD is common in primary care level among adults with NCDs in Trinidad with many patients having a high or very high risk of an adverse event. Primary care physicians must take this into consideration in caring for NCD patients.

## MAJOR RESEARCH IN PROGRESS

*West Africa, West Indies, West London (WWW): Mechanisms driving heterogeneity in immunity to SARS-CoV-2 variants.*

**Investigators:** D. L. V. Bauer, G. Awandare, Y. Bediako, P. Quashie, **C. V. F. Carrington**, J. Anzinger, E. Wall, A. Kucharski.

The WWW Consortium brings together three prospective cohort studies of healthy adults in receipt of COVID-19 vaccination in West Africa, the West Indies, and West London to answer fundamental questions in the immunology of SARS-CoV-2 variants. This project will provide insights into the factors that drive the complex immunology to SARS-CoV-2 variants that can also inform future pandemic response in regions currently underserved by both research and surveillance capacity.

*Characterisation of emerging viruses and protective immune responses against them in humans.*

**Investigators:** A. Ramjag, G. Simmons, **C. V. F. Carrington**

Emerging viruses are becoming increasingly common. With each newly arrived virus there is need to rapidly characterise the virus and develop specific tests, vaccines, or therapeutics. This requires knowledge of the viruses' genetic structure and an understanding of the human immune response to the virus. The aim of this study is to detect and characterise emerging viruses associated with acute undifferentiated fevers and to characterise immune responses against them with a view to developing novel diagnostic tests, therapeutics, and vaccines. The output of this project will inform development of novel diagnostic tests, therapeutics, and vaccines against important mosquito-borne viruses.

*Dietary modulation of gut microbiome and host gene expression across human evolution and the emergence of modern human disease.*

**Investigators:** **J. Foster**, R. Ramroop, H. Singh

This multi-site study seeks to understand how nutrients and the gut microbiome have converged to impact gene expression in the human host, and to look for evidence on how this three-way interaction has impacted disease in vulnerable groups across human evolution. As the local principal investigator for the Trinidad-based study site, Professor Carrington is supervising sample collection and biochemical analyses of a Trinidad study group representing an industrialised, agricultural economy to compare against other study sites representing non-industrialised ancestral populations. Our theory is that dietary changes across evolution have influenced the emergence of specific microbiome constitution in modern humans resulting in certain diseases. By sampling the gut microbiome and disease markers of different human populations related by



# FACULTY OF MEDICAL SCIENCES

common ancestry (African descent - contrasting traditional vs industrialised nutrition, and healthy vs those showing markers of metabolic syndrome) we will be able to determine the variation in gut microbiome associated with such diseases.

## Grants

### **Professor Christine V. F. Carrington**

**Wellcome Trust (2023 – 2026).** West Africa, West Indies, West London: Mechanisms driving heterogeneity in immunity to SARS-CoV-2 variants. (*Lead applicant/Principal Investigator (PI)*: David Bauer). *Role*: Co-PI /Site PI. US\$3,654,723 (of which US\$739,629 for UWI St. Augustine).

### **United States Department of Agriculture (2023 - 2024).**

Detection and Characterization of Potential Emerging and Emergent Arboviruses in Mosquitoes in the Caribbean (*Principal Investigators*: William Wilson, Chris Oura). *Role*: Co-investigator. US\$109,000

### **UK Health Security Agency – New Variant Assessment Platform (NVAP) (2022 - 2023).**

New Variant Assessment Platform support for the Whole Genome Sequencing of COVID-19 cases in Trinidad & Tobago and other CARPHA member countries. *Role*: Co-PI (*Other Co-PIs*: Joy St. John, Isabelle Oliver). In-kind donations of equipment, reagents, supplies and training worth approximately US\$1,237,135.

### **Dr John Ramcharitar**

**Campus Research and Publication Fund.** Effects of Gentamicin-Induced Ototoxicity on Auditory Sensory Epithelia of the Zebrafish (*Danio rerio*) CRP3.NOV22.09. *Role*: Principal Investigator. US\$3,350.

## *Department of Para-Clinical Sciences*

### **Dr Arlene Williams-Persad**

Received a small research grant for the project titled: “CRP3JUNE23.01 – An Investigation of the Efficacy of Herbal Medication compared to prescribed Conventional Medication in managing Hypertension in Trinidad & Tobago.” Research such as this can provide useful insights into the desired and intended result of the use of herbal medication by patients that can be used by healthcare providers in developing appropriate interventions to encourage proper use of herbal medicines resulting in improved management of these chronic diseases.

### **Dr Shalini Pooransingh**

Dr Pooransingh’s research interest lies in communicable diseases and improving health systems to achieve equity in healthcare. She visited the Temerity Faculty of Medicine, University of Toronto, Department of Occupational Science and Occupational Therapy. Their research focuses on mental health, equity, and global health. She was successful in seeking opportunities for further collaboration as she had previously collaborated with a Senior Research Scientist during the pandemic, on health equity and global health. She plans to develop a proposal of work between their Department and our Public Health & Primary Care Unit.

### **Dr Raveed Khan**

Dr Khan completed the online course on Global Adolescent Health taught by the London School of Hygiene and Tropical Medicine (LSHTM) and the World Health Organization (WHO), in collaboration with the Obafemi Awolowo University, Ile-Ife, Nigeria, Institute of Child Health, University of Ibadan, the Public Health Foundation of India, UNFPA, and UNICEF (Sept 2022). This certificate provided grounding in epidemiology, evidence-based interventions, and strategies for responding to adolescents’ priority health problems. The knowledge gained has improved his delivery of learning outcomes for students in Family Medicine and Public Health.



**Professor Chidum Ezenwaka**

Professor Ezenwaka visited the Clinical Nursing Research Laboratory Chronic Care Nursing at Hiroshima University, JAPAN (July 2022). Prof Ezenwaka has had previous collaborations with Professor Michiko Moriyama and would have also published academic papers between our two Universities. During the visit, he understudied their improved facilities and protocols as related to his current research interest in self-management of chronic diseases.

**Dr Srikanth Umakanthan**

Visited two renowned institutions (27 March to 5 May, 2023) in India, namely Kasturba Medical College, Mangalore; and Tata Memorial Hospital, Mumbai. Discussions surrounded a research collaboration between the Kasturba Medical College, Mangalore, and the University of the West Indies, Trinidad. The research will involve postgraduate students and possibly undergraduate students inclusive of the Indo-Caribbean study population and statistical analysis on infectious diseases (COVID-19), non-neoplastic and neoplastic lesions within the population. Various aspects of teaching were also discussed. The asynchronous and flipped-classroom approach to teaching that has been increasingly employed in undergraduate medical education was of particular interest.

**Dr Umakanthan** also visited Tata Memorial Hospital, Mumbai, to discuss recent advances in oncopathology and molecular genetics which has been routinely used to diagnose soft tissue malignancies in that tertiary care centre. He was actively involved during the routine reporting and case discussions and even held research guiding sessions with the resident doctors, postgraduates, and laboratory technicians regarding the implication of ethics and how to conduct case studies in a large population and publish articles in high-impact journals.

*Department of Clinical Medical Sciences*

**Dr Prithiviraj Bahadursingh** was part of a training team, and he played a role in the development of a screening tool for Autism in toddlers. The training took place in Jamaica in August 2022. This is a partnership among UWI Child Health Mona, UWI Child Health St Augustine, and the Treatment and Research Institute for Autism (TRIAD) Vanderbilt University in USA. Participants in the training included paediatricians, speech therapists, occupational therapists, and post graduate paediatric students. The training team included Professor Zachary Warren of Vanderbilt, Professor Jeffery Hine of Vanderbilt, and Dr Prithiviraj Bahadursingh of the DCMS, UWI.

**Dr Curt Bodkyn** was the Physician Lead for Trinidad & Tobago on The American Society of Hematology (ASH), Children's International Consortium on Acute Leukaemia (C-ICAL) which developed a treatment protocol (standard of care document) for children with Acute Lymphoblastic Leukaemia in the Caribbean to improve survival and reduce early tumour related deaths. In collaboration with the ASH, the protocol was developed with the limitation of the Caribbean setting in mind optimizing treatment to international standards. Patients on the study will be followed for five years to monitoring outcomes and early tumour related deaths. The Caribbean countries involved are Trinidad & Tobago, Bahamas, Barbados, and Jamaica from the SCI (Sickkids-Caribbean Initiative) project. The protocol was approved by the Ministry of Health and The UWI ethics committees. To date Trinidad & Tobago has accrued the highest number of patients in the study. Review of the preliminary data in July 2022 showed marked improvement in survival and a reduction in early treatment related deaths.

# FACULTY OF MEDICAL SCIENCES

## Research in Progress

*American Society Haematology -Children's International Consortium on Acute Leukaemia (ASH-C-ICAL)*

Principle Investigator: **Dr Curt Bodkyn**. The objective of this project is to develop a common standard of care treatment plan for Acute Lymphoblastic Leukaemia involving four countries (Jamaica, Trinidad & Tobago, Barbados, Bahamas). The Children's International Consortium on Acute Leukaemia (C-ICAL) is a sub-group of ASH, which developed the standard of care treatment protocol to be used based on best practice from both North American and European protocols (COG and I-BFM) in conjunction with leukaemic experts affiliated with ASH American Society of Haematology (ASH).

*SickKids Caribbean Initiative for children with cancer and blood disorders*

Principal Investigator: **Dr Curt Bodkyn**. The objective of this project is to improve the outcome for children with cancer and blood disorders in the Caribbean.

*Screening And Linkage To Care of Hepatitis C in Trinidad & Tobago*

Principal Investigator: **Dr Stanley Giddings**. The objective of this project is to determine the sero-prevalence of hepatitis C and chronic hepatitis C in Trinidad & Tobago, and the proportion of chronic hepatitis C patients linked to care. The funding agency is Gilead Sciences Inc.

*INTREPID 11*

Principal Investigator: **Professor Gerard Hutchinson**. The objective of this project is investigation of the epidemiology and clinical features of first episode psychosis in three diverse settings - Trinidad, Chennai, India and Ibadan, Nigeria. Recruitment of first episode psychotic cases and healthy

controls from North, East and Central Trinidad. The funding agency is the Medical Research Council, UK/Kings College, University of London and SUNY, New York.

*Consulting Services to Undertake a National Screening and Management Programme for Diabetes in Pregnancy within the Trinidad & Tobago Health Sector for the Government of the Republic of Trinidad & Tobago.*

Principal Investigator: **Professor Surujpal Teelucksingh**

The objective of this project is to improve long and short-term health outcomes of pregnant women, through screening for diabetes in pregnancy (DIP) and the provision of timely, relevant, and appropriate health information and care. The purpose is to facilitate the screening and management of DIP in Trinidad & Tobago. The outcome is to screen, to diagnose and to manage DIP using standardized protocols. This project is funded by the Trinidad & Tobago Ministry of Health. The project outputs are as follows:

- Continuous Medical Education and Training of healthcare providers.
- Medical Laboratory Training and support for the quality management systems implementation to approach
- Lab Quality Management Systems- Stepwise Improvement Project- Tier 1 Standard
- IT based surveillance system that links the clinical records to laboratory information systems.
- Support for Capacity Development and Knowledge Management. training records and
- A Sensitization programme for non-clinical administrative support staff
- Patient Equipment programme (with intended distribution of testing devices).

### *Department of Clinical Surgical Sciences*

The Department of Clinical Surgical Sciences aims to improve the research in the new reporting period 2023 – 2024. An additional research assistant was hired, and the department staff are currently organising research. Forty - one articles were produced in peer-reviewed journals.

### **OPTOMETRY UNIT**

*Online e-learning during the COVID-19 lockdown in Trinidad & Tobago: prevalence and associated factors with ocular complaints among schoolchildren aged 11-19 years.*

Ekemiri K, Ezinne N, Kamalodeen K, Pierre K, Lalla B, Amiebenomo O, van Staden D, Zeried F, Ekemiri C, Agho KE, Osuagwu UL. PeerJ. 2022 Jun 6;10: e13334. doi: 10.7717/peerj.13334. PMID: 35694382; PMCID: PMC9179615.

The study explored how online e-learning, which became prevalent during the lockdown, impacted the eye health of students in that age group. It investigated factors associated with ocular complaints during this period. The findings have implications for education and health policies, suggesting potential issues or challenges related to extended screen time or online learning for adolescents in Trinidad & Tobago.

*Knowledge, attitude, and perception of optometrists in Trinidad & Tobago towards teleoptometry* Ezinne NE, Anyasodor AE, Bhattarai D, et al. Heliyon. 2023 Feb;9(2):e13686. DOI: 10.1016/j.heliyon.2023. e13686. PMID: 36852073; PMCID: PMC9957749.

This research revealed optometrists' awareness, attitudes, and challenges related to teleoptometry in Trinidad & Tobago. Understanding their perspectives, refine strategies for implementing teleoptometry, potentially improving eye care access, especially in remote areas. Positive attitudes may

lead to better integration into the healthcare system. These findings could influence policies and training programmes for optometrists, potentially prompting guidelines and regulations to support teleoptometry's effective use in Trinidad & Tobago's healthcare system.

*Comparative Analysis of Health- and Vision-Related Quality of Life Measures among Trinidadians with Low Vision and Normal Vision-A Cross-Sectional Matched Sample Study.*

Ekemiri KK, Botchway EN, Ezinne NE, Sirju N, Persad T, Masemola HC, Chidarikire S, Ekemiri CC, Osuagwu UL. Int J Environ Res Public Health. 2023 Jul 24;20(14):6436. doi: 10.3390/ijerph20146436. PMID: 37510668; PMCID: PMC10378830.

This study compared the quality of life between individuals with low vision and normal vision in Trinidad & Tobago, assessing its impact on daily activities, emotional well-being, and healthcare needs. It is relevant to Trinidad & Tobago, it could better support services, healthcare strategies, and policies for those with low vision, potentially leading to improved awareness, specialised care, and policy development tailored to their needs.

### **SCHOOL OF VETERINARY MEDICINE** **Research Funding**

In a year marked by steadfast dedication to scientific exploration, the Department of Basic Veterinary Sciences of the UWI-SVM has achieved remarkable milestones through a series of groundbreaking research endeavours. These initiatives not only highlight the Department's commitment to advancing knowledge but also underscore its vital role in addressing critical health issues on both regional and global scales. The total worth of the grants for this year is US\$401,930 (approx.)

# FACULTY OF MEDICAL SCIENCES

**Professor Oura** secured a substantial grant of US\$330,000 through the USDA ARS Project, titled *Detection and Characterization of Potential Emerging Arboviruses in Mosquitoes in the Caribbean*. This initiative not only seeks to identify and characterize mosquito-borne viruses in Trinidad & Tobago but also evaluates their distribution and potential threats nationally and internationally, thereby contributing significantly to public health preparedness.

**Dr Karla Georges** and **Dr Teola Noel**, in collaboration with IICA-PROCINORTE, successfully spearheaded a project valued at US\$49,930, titled *Evaluation of the Risk of Introduction and Enhancement of Surveillance and Control Strategies for African Swine Fever (ASF) in Trinidad & Tobago*. This critical research addresses the heightened risk of ASFV spreading in North America and the Caribbean, emphasizing the need for effective surveillance and control strategies to safeguard pig populations and trade in the region.

**Dr V. Sundaram's** CRPF project on the *Prevalence of Polycystic Ovarian Syndrome in Trinidad*, amounting to TT\$94,326, contributes significantly to the global understanding of PCOS. Beyond shedding light on the disorder's prevalence, associated morbidities, and genetic variants, the study holds implications for public health and potential therapeutic advancements.

Adding to the School's diverse portfolio of research, **Dr Sani Muhammad's** CRPF grant of TT\$75,000 for the study on *Physicochemical Contents, In vitro Antioxidant Properties, And Toxicity Screening of Ficus Benjamina Fruits* promises to unravel crucial insights into the potential benefits and risks associated with these fruits, contributing to our understanding of their impact on human health.

*Comparison of packed-cell volumes of anaemic small ruminants before and after therapeutic blood transfusions* - Primary Investigators: **Dr Michael Morris** and **Dr Marc Driscoll** CRP4.NOV22.05 - TT\$27,889 November 2022. The primary objective of this study is to determine the severity of anaemia in small ruminants and the response to treatment especially after blood transfusions are done. Results of this study will help to dictate future interventions in the treatment of animals with anaemia.

*Bovine genital tracts pathologies in Trinidad & Tobago vs. Norway* **Dr Indira Pargass** and **Dr Michael Morris** (PI), CRP3. MAR23.02 – TT\$16,460.00. 21 March 2023. The primary objective of this study is to determine the relative incidences of the various uterine, ovarian, and cervical pathologies found in dairy cattle in the Trinidad & Tobago dairy industry. These findings will be correlated with the indicated reasons for culling. Additionally, the incidence of sub clinical and clinical metritis and or endometritis in dairy cattle will be probed, with relative distributions of the major bacterial and fungal organisms being identified, along with their particular sensitivities to the various antibiotics available for treatment in the live animal. This will serve to inform future veterinary treatment decision-making, improving responsible antibiotic usage. All results will be compared with a sister project being carried out at the University of Oslo, Norway.

Complementing these research initiatives, the Department achieved a significant milestone with 18 journal publications, further solidifying its position as a hub for scholarly contributions in the field. These collective efforts signify the DBVS's holistic and impactful approach to scientific inquiry, fostering an environment where faculty members actively contribute to the advancement of knowledge and the well-being of communities worldwide.

### SCHOOL OF NURSING

Professor Roberta Durham commenced work as a Fulbright Scholar attached to the UWISoN during the period 01 November 2022 – 30 April 2023. A US\$58,000 grant was received from Jhpiego/USAID for a project on Respectful Maternity Care. Two research papers to be developed for publication and collaboration with the Ministry of Health (MoH) to develop priority actions for RMC.

### SCHOOL OF PHARMACY

#### Patent

**Professor Rajiv Dahiya** (Patent Granted as Co-Investigator)

Agrawal A, **Dahiya R**, Ganapurapu JS, Gautam H, Jain B, Jain S, Jain VK, Mourya R, Tiwari RK, Yadav AK. Herbal composition to improve immune function and prevent disease. European/German Patent, DE file number: 20 2023 103 102.1, DE application date: 6 June 2023, Date of registration: 20 June 2023; Date of publication of the registration in the patent gazette: 27 July 2023. Available from: <https://register.dpma.de/DPMAREGISTER/pat/register?AKZ=2020231031021&CURSOR=0>

**Dr Madan Mohan Gupta** (Patent - Granted as Co-Investigator)

UK Patent

- Distillation Apparatus for Separation and Purification of Herbal Volatile Oils. Design No. 6288129. Date of Grant: 19 June 2023
- Franz Diffusion Cell Apparatus for Permeation Studies of Topical Formulations, Design Application Number 6288558, Date of Grant 17 June 2023
- Portable Multilayer Tablet Punching Machine, Design Application Number 6288109, Date of Grant: 15 June 2023.
- Modified Liposome Extruder for Liposome Synthesis Design Application Number 6290986, Date of Grant: 26 June 2023.

- Franz diffusion cell dissolution apparatus for in vitro drug release. Design Application Number 6294303, Date of Grant: 12 July 2023.

Indian Patent

- Viscometer For Measuring Nanogel Viscosity, Design No. 382299-001, Date of Grant 23<sup>rd</sup> May 2023

### Research Grants

#### Professor Rajiv Dahiya

ARPG-22/01-09.23-IMC: Rs 2,50,000/- (US\$3059) under research and publication grant by Association of Pharmacy Professionals (India) (Sep 23, 2022) for research project on Plant-Based Natural Cyclopeptide.

ARPG-22/02-26.11-IUC: Rs 2,50,000/- (US\$3059) under research and publication grant by Association of Pharmacy Professionals (India) (Nov 25-26, 2022) for research project on Plant-Roots Originated Natural Cyclopolypeptide.

#### Dr Sandeep Maharaj

Dr Maharaj is a member of the Steering Committee for the Core Research Team and Research Hub Development Group. The Research Project "Global Dialogues on the Intersection between Climate Change and Mental Health Research" acquired funding for £1.2 million from Wellcome Trust.

# FACULTY OF MEDICAL SCIENCES

## *Caribbean Centre for Health Systems Research and Development (CCHSRD)*

The CCHSRD continued to play a critical role to facilitate the uptake of research evidence in policymaking. This includes the preparation of evidence briefs that addressed priority issues as identified and defined by policy makers at Government Ministries. During the last academic year, CCHSRD produced the following Policy Briefs in collaboration with the T&T Ministries of Health; Labour, Planning and Development; Social Development and Family Services; and Sport and Community Development:

- Improving Access, Quality and Equity in Health Service Delivery in Guyana through the Implementation of Integrated Health Service Delivery Networks. [Evidence Brief for Policy]
- Addressing the Mental Health and Psychological Impact of the COVID-19 Pandemic on Healthcare Workers. [Evidence Brief for Policy]
- Strengthening Nursing Retention and Midwifery in the Public Healthcare System: A Human Resources for Health Imperative. [Evidence Brief for Policy]
- Facilitating Sustainable Communities in Trinidad & Tobago with an Emphasis on Community Based Participatory Approaches. [Evidence Brief for Policy]
- Key Strategies/ Interventions to Remedy the Unfilled Demand for Labour and Skills Gaps in the Civil Service in Trinidad & Tobago. [Rapid Response Brief]
- Key Strategies/ Interventions to Address or Improve the Underperformance of Males in the Education System in Trinidad & Tobago. [Rapid Response Brief]
- Key Strategies/ Interventions to Address the “Dependency Syndrome” on the State’s Social Welfare System in Trinidad & Tobago. [Rapid Response Brief]

These Briefs were presented to the Ministries to inform their policy making process.

## **Funding**

The sum of US\$42000 from the University of California, San Francisco for project titled: “*Targeted HIV/TB Strategic Information Technical Assistance for President’s Emergency Plan for AIDS Relief (PEPFAR) and Global Fund to Fight AIDS, Tuberculosis and Malaria (GFATM) Countries.*” The aim of the project is to determine the Population size estimates for key HIV populations i.e., men who have sex with men (MSM), transgender men and transgender women in Trinidad & Tobago. The results will be used by the Ministry of Health to guide its HIV programming and resource allocations. It will also facilitate the submission of more accurate data estimates by T&T to UNAIDS for the preparation of its Global AIDS Monitoring (GAM) Reports.

## **Strategic Review**

### **Access**

#### *SCHOOL OF MEDICINE*

#### **Department of Para-Clinical Sciences**

A proposal was submitted and approved by CETL to change the MPH programme from face-to-face to blended. This increased the intake of national, regional, and international applicants. Stand alone or short courses were offered in the MPH programme, however, one of the major challenges experienced was the numerous iterations of the proposal that had to be completed due to specific jargon required. The Department introduced new courses which included a new DM Medical Microbiology programme, started in July 2023, and a new MPhil Immunology course: MEDC 7933 Fundamentals of Clinical Immunology approved in May 2023. Year I MBBS students are now required to complete an Infection, Prevention and Control course. This course was previously only offered to

working professionals. The Department also developed and introduced the Entrepreneurship Committee and Research Committees during the period under review. Collaboration with the Sanger Institute, UK allowed for one academic staff member and one ATS staff member to attend a Bioinformatics Workshop in Colombia (March 2023).

### Department of Clinical Surgical Sciences

The Department developed a plan to introduce a Fellowship in Thoracic Surgery with a proposed start date in 2024. Working on the development of a DM Plastic Surgery is in its draft stage. The Department is also engaged in arranging Curriculum Mapping for Undergraduate programmes.

### Department of Clinical Medical Sciences (DCMS)

The DM Medical Oncology was approved to be offered however, budget cuts limited increasing the number of ACIs to assist with UG and PG clinical training.

### Department of Pre-Clinical Sciences

Staff and graduate students participated in several research training workshops and conferences: Department co-hosted a Bioinformatics workshop with United Kingdom Health Security Agency (UKHSA) New Variant Assessment, Platform (NVAP) and Cambridge Bioinformatics Training Facility (BTF), and on the planning committee of the National Health Research Conference 2023. The Department received in-kind donations of equipment, reagents, supplies and training worth ~£1,000,000 (US\$1,237,741) under a collaborative agreement between the UK Health Security Agency, UWI and CARPHA which was signed in October 2022. An in-kind donation of personnel salary support (~US\$50,800) and backup generator

for laboratory (~ US\$27,000) was also received from Pan American Health Organisation to mitigate against disruptions in power supply that are becoming more frequent and causing losses of laboratory reagents and samples, as well as delays in student progress.

The Department completed a business plan for a centre of excellence for emerging diseases and genomics that will perform research, provide training and a sequencing service for researchers, public health and other institutions. Market survey was completed by the Campus Entrepreneurship Unit and a final report is expected that will direct next steps. A Wellcome Trust funded project (West Africa, West Indies, West London: Mechanisms driving heterogeneity in immunity to SARSCoV-2 variants) was initiated. Consortium grant of £2,998,058 (US\$3,654,723) of which £597,680 (US\$739,629) for UWI including 15% in administrative charges.

Research laboratory and human resource capacity, built during the COVID-19 pandemic was used to support other research including by staff and students from outside the Department.

Continued strengthening of collaborative research links with leading international and regional institutions. However, this was met with a few challenges such as the establishment will require a new laboratory space estimated at about TT\$16million, in addition, the Department is understaffed (academic staff) such that administrative and teaching load hinders research. There has been a level of difficulty attracting new high calibre academic staff.

# FACULTY OF MEDICAL SCIENCES

## *SCHOOL OF VETERINARY MEDICINE*

Since the 1992 approved DVM curriculum, there have been four reviews since, with a second BUS- approved curriculum, with major revisions, in 2011. In 2023, the DVM took on the second major revision of the DVM programme. The current review seeks to implement major changes to the 2017 curriculum, geared toward devising an effective strategy for addressing issues with student performance in courses that repeatedly have high failure rates in Year I of the DVM programme. The revision would also aid in improving course sequencing and delivery to enhance student comprehension as they progress through the programme, placing a greater focus on ensuring that the expected minimum basic competencies of entry level veterinary professionals are met by all students upon graduation. Equipping the graduates to be more self-reliant at graduation will enable them to be self-employed and provide an environment for the students to spend more time in their areas of interest.

## *SCHOOL OF PHARMACY*

There was an increase in the intake for the Mixed Mode BSc Pharmacy programme by eight (regional students), while the intake for regional students to the BSc Pharmacy Face to Face programme went up by one. The registration process and advertising of the programme were improved in order to reach a wider audience. With regards to the proposal for the Total Parenteral Nutrition (TPN) Course, there were challenges with approval for funding for applications and advertising of the programme to reach a wider audience. Professor Rajiv published five book chapters and published one article in refereed journal. In 2022, Professor Dahiya was included in the top 2% of research in Pharmaceutical Sciences globally published by PLOS Biology

Journal from Stanford University, USA. Dr Madan Mohan Gupta published one book and two book chapters and had 18 articles in peer-reviewed journals. Five of his patents was granted in the United Kingdom.

## *SCHOOL OF NURSING*

In September 2023, the new BSc Midwifery programme commenced despite non-approval of scholarships from the Ministry of Health. The programme is self-funded; 15 students accepted the offer, but eight students enrolled for Sept 2023, while the other seven applied for deferrals. Curricula for the Certified Nursing Assistant and RN to BSc Nursing have been developed and are awaiting approval. A curriculum retreat was held to review the BSc Nursing Pre-Registration programme had reached execution phase however, Professor C Justin Robinson PVC & Chair Board of Undergraduate Studies (BUS) recommended a joint curriculum review between UWI St. Augustine, UWI Mona, and Five Islands Campus which may affect commencement date. The Faculty Executive was not supportive of a joint review so UWISO, St Augustine will proceed with the review in Academic Year 2023/2024.

The School is also awaiting formal approval of the revised MScN curricula. Approval has been received from the Faculty Graduate Studies and Research Committee, as well as Faculty Board. The School is working with the Dean's Office to ascertain the status of the approval process through the University.

The MSc Advanced Practice Nursing was developed by Fulbright Scholar Professor Barbara Pieper who visited from Wayne State University consistent with a request from the Ministry of Health. This curriculum is awaiting University approval.



The Respectful Maternity Care Research Project cycle during August 10th-11th 2023 provided opportunity for the provision of a prospective suite of interventions for the Ministry of Health, and a suite of actions for Nurse Leaders in the CARICOM region in collaboration with the Caribbean Regional Midwives Association (CRMA) pending Multi Country Global leadership/ Jhpiego agreement. There is potential for an extension of the project following discussion held during Sept 19th, 2023, meeting between USAID, MCGL, CRMA and UWISO. Two research papers are currently being developed for publication by the team.

### *SCHOOL OF DENTISTRY*

The School introduced a short course in Dental Assisting and launched an anonymous feedback system with input from Staff, Students, and Patients to be tabled at relevant School Committees. A challenge in this venture was obtaining constructive criticism. The School conducted consultations with the Dental Association to gather research needs of the dental fraternity, however this resulted in limited response by the fraternity. A series of research presentations by Staff of the School to the Dental Fraternity to highlight research efforts of the school and initiate discussions was also met with a poor response by the fraternity. Research presentations given by members of staff to other staff and vocational trainees and research assistants to foster research culture had difficulty in obtaining full staff participation.

### *Caribbean Centre for Health Systems Research and Development (CCHSRD)*

The CCHSRD improved the quantity, quality and impact of research at the FMS by hosting a Research Discussion Forum.

With over 82 academic staff members as members, the Forum provided support and capacity development for members toward the conduct of research studies and the publication of the findings. The FMS research mentorship programme was launched in April 2023. Over 20 senior staff members have been mentoring junior staff members to increase their research productivity.

### **Alignment**

#### *SCHOOL OF MEDICINE*

The Faculty conceptualised the creation of a revenue-earning project entitled Humankind Studio to create productions for the Faculty.

#### *Department of Pre-Clinical Sciences*

The Department received in-kind donations of equipment, reagents, supplies and training worth ~£1,000,000 (US\$1,237,741) under collaborative agreement between the UK Health Security Agency, UWI and CARPHA which was signed in October 2022. An in-kind donation of personnel salary support (~US\$50,800) and backup generator for laboratory (~US\$27,000) was also received from Pan American Health Organisation to mitigate against disruptions in power supply that are becoming more frequent and causing losses of laboratory reagents and samples, as well as delays in student progress.

The Department completed a business plan for a Centre of Excellence for Emerging Diseases and Genomics that will perform research, provide training and a sequencing service for researchers, public health and other institutions. A market survey was completed by the Campus Entrepreneurship Unit and a final report is expected that will direct next steps

# FACULTY OF MEDICAL SCIENCES

including feasibility of options for revenue generation (e.g. from sequencing service). A Wellcome Trust funded project (West Africa, West Indies, West London: Mechanisms driving heterogeneity in immunity to SARS-CoV-2 variants) was initiated. Consortium grant of £2,998,058 (US\$3,654,723) of which £597,680 (US\$739,629) for UWI including 15% in administrative charges.

## Department of Para-Clinical Sciences

Several alumni have reached out and agreed to teach/lecture pro bono. The department is currently awaiting confirmation from the CAC regarding approval for these lecturers to be called "Honorary Lecturer". Collaboration with Sanger Institute, UK allowed for one academic staff member and one ATS staff member to attend a Bioinformatics workshop in Colombia (March 2023). This was fully funded by Sanger Institute.

## Department of Clinical Surgical Sciences

Past DM Graduates are currently ACI's and participating in workshops BSS and SSHP.

## SCHOOL OF PHARMACY

Dr Sandeep Maharaj has been working with the Imperial College London Wellcome Trust Project Connecting Climate Minds (£1.2million) Alumni have been engaged to become student Mentors, however the response has been low with only six persons volunteering. The School is currently working on a Pharmaceutical Nutraceutical Project to develop indigenous efficient nutraceuticals. The School has had an ongoing collaborative effort with the Ministry of Trade and InvestTT to work through the logistics, and with University of South Florida to develop the technology.

## SCHOOL OF NURSING

Over the last reporting period (2021/2022) UWISoN attracted a total of TT\$3,467,338.04, and through new programme initiatives the School aims to attract the same number for the upcoming period 2023/2024. However, balances and projects stand at awaiting new balances from Carrol Mohammed.

Professor Roberta Durham was approved to assist staff with research output in the last reporting period and commenced work for six months from 01 November 2022 – 30 April 2023. A research proposal was developed, and Prof Durham promised to source funding for the proposal, and we are awaiting same.

Dr Durham returned to the USA prior to the completion of her scholarship so there may be challenges in the expected economic funding for the project. Efforts are being made to engage Alumni through an Alumni Study.

## SCHOOL OF DENTISTRY

Grants were secured by the School to support the Special Needs Clinic from organisations like Community Chest, Dental Supply Companies and private donors. Donations were also secured by the school to assist financially challenged students in purchasing dental equipment for their studies from Alumni and Dental Supply Companies.

## Agility

### SCHOOL OF MEDICINE

#### Department of Clinical Surgical Sciences

During the period under review the Department resumed both The Advanced Paediatric Life Support (APLS) and the Intercollegiate Basic Surgical Skills and the Surgical Skills for Students and Health Care Professionals.

### Department of Para-Clinical Sciences

Increased advertisement of self-financing programmes via various social media platforms, and earlier advertising of programmes were initiated to increase applications. However, the Department noticed a significant increase in cost associated with advertisement. The department completed a self-assessment report for the upcoming Quality Assurance Review that can be used to identify staff development needs and barriers to developing CAMP team. The Department is understaffed (academic staff) such that administrative and teaching load are burdensome.

The Master's in Public Health programme was moved from face-to-face to blended. This encouraged the use of the Multimedia and Information Technology Lab in the MSL for the facilitation of Biostatistics lectures. As such the Department no longer has to pay to rent and maintain the space previously used at the Sir George Alleyne Building on Warner St. St Augustine. It also encouraged more applications from across the Caribbean.

### SCHOOL OF DENTISTRY

Discussions with Campus Management on the implementation of the University FGPC approved Business Plan for financial Solvency were restarted. However, there is a need for capital investment to get the plan started. A Customer Service Training programme for ATS staff that interact with stakeholders was initiated. The School is overseeing an ongoing project to digitize the radiology services at the School of Dentistry, despite the lack of support of this initiative by the NCRHA.

### SCHOOL OF PHARMACY

The School was able to increase student intake marginally and bring down the number of full-time staff required through greater utilization of part time staff. Staff has also been encouraged to utilise technology by way of webinars.

### SCHOOL OF NURSING

UWISO was declared a PAHO/ WHO Collaborating Centre in Nursing & Midwifery in 2020. A proposal has since been submitted for redesignation. UWISO continues to form linkages with Regional and International Universities- Regional Nursing Body (RNB)-CARICOM, Five Islands Campus, London South Bank University, Columbia University and Birmingham City University. The following is the status of some of the linkages:

- MoU – Birmingham City University signed.
- MoU – University of Alabama under review.
- MOU – University of East Anglia signed.

UWISO continues to encourage the research output of staff, through training programmes and the alignment of staff as Supervisors to students pursuing the BSc Nursing and MSc Nursing programmes, as well as training initiatives to build capacity. Getting staff to publish in high demand referred journals is a challenge as the focus is on getting published and not on the quality of the journals.

### Caribbean Centre for Health Systems Research and Development

The FMS Mentorship programme focuses on research, but the mentors also provide support in other areas of professional life that would lead to stronger CAMP teams at the FMS.

# FACULTY OF MEDICAL SCIENCES

## Distinguished Visitors

### *Department of Clinical Medical Sciences*

#### **Dr Carina Yang**

Associate Professor of Radiology and Director of  
Paediatric Neurology  
The University of Chicago, Illinois, United States

### *Department of Para Clinical Sciences*

#### **Dr Ian K Hosein**

MD MA FCAP FRCPath MBA FT NED Dip.  
Medical Microbiology Consultancy Services, UK

#### **Professor Johnny Lyon-Maris**

Medical Director,  
GP Training and Registration at Royal College  
of General Practitioners  
Coordinator of PG Examinations for the RCGP and  
External Examiner for the Family Medicine PG programmes at UWI

#### **Dr Hazel Othello**

Director of the Mental Health Unit of the Ministry of Health

### *Department of Pre-Clinical Sciences*

#### **Dr Ingra Morales Claro**

Centre for Global Infectious Disease Analysis,  
Imperial College London

#### **Constantina X. Laou**

Lab Technical Advisor  
UK Health Security Agency

#### **Mr Filipe Romero Rebelo Moreira**

Centre for Global Infectious Disease Analysis,  
Imperial College London

#### **His Excellency Fernando Nogales**

Ambassador of the Kingdom of Spain to the Republic of Trinidad & Tobago

#### **Aude Wilhelm**

NVAP Senior Epidemiology Scientist  
UK Health Security Agency

### *School of Dentistry*

#### **Dr Ulpee Dabar**

Honorary Associate Professor  
The Royal College of Surgeons of Edinburgh

#### **Dr Mital Patel**

Chairman of the Advisory Board in Implant Dentistry  
The Royal College of Surgeons of Edinburgh

### *School of Nursing*

#### **Professor Roberta Durham**

Emeritus Professor & Fulbright Scholar  
California State University, East Bay, USA

### *School of Optometry*

#### **Professor Yashwant Pathak**

Professor and Associate Dean for Faculty Affairs,  
College of Pharmacy, University of South Florida

### *School of Veterinary Medicine*

#### **Dr Carlos Gonzales Crespo**

Post-Doctoral Researcher  
Center for Animal Disease Modeling and Surveillance (CADMS)  
Tupper Hall, Department of Medicine & Epidemiology,  
School of Veterinary Medicine  
University of California Davis, CA, USA

#### **Professor Chukwudozie Ezeokoli**

Professor of Veterinary Medicine  
College of Veterinary Medicine.  
Federal University of Agriculture, Makurdi, Benue State, Nigeria

#### **Mrs Denise Dickson Cunningham**

Manager, New Business & Product Development  
Agricultural Development Bank

#### **Dr Desmond A. Ali**

Executive Director  
Caribbean Poultry Association

#### **Dr Emily Hortin**

Social Scientist  
US Fish & Wildlife Service

**Dr Jennifer Miller**  
National Permits Policy Lead  
US Fish & Wildlife Service

**Dr Mark Gibson**  
Director  
Nature Nurture Campaign

**Ms Marta Barbada**  
University of Leon

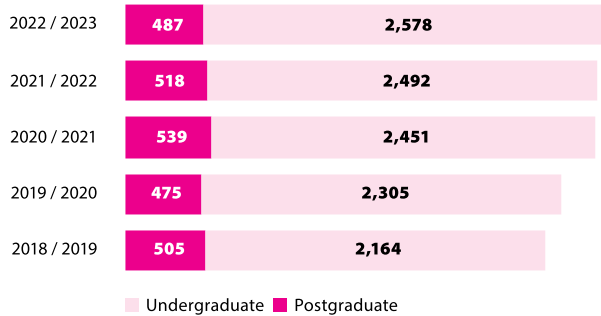
**Ms Niamh Vaughan**  
Manager  
Nature Nurture Campaign

**Dr Ted Mashima**  
Chief Strategy Officer  
American Association of Veterinary Medical Colleges

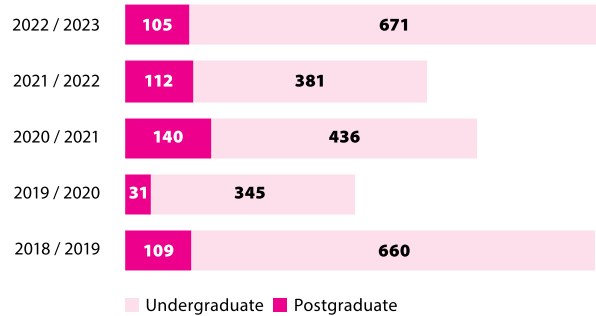
**Dr Preetha S. Palaninathan**  
Assistant Professor, Department of Veterinary Pharmacology and Toxicology  
Madras Veterinary College, Tamil Nadu Veterinary and Animal Sciences University

## Enrolment & Graduation Trends

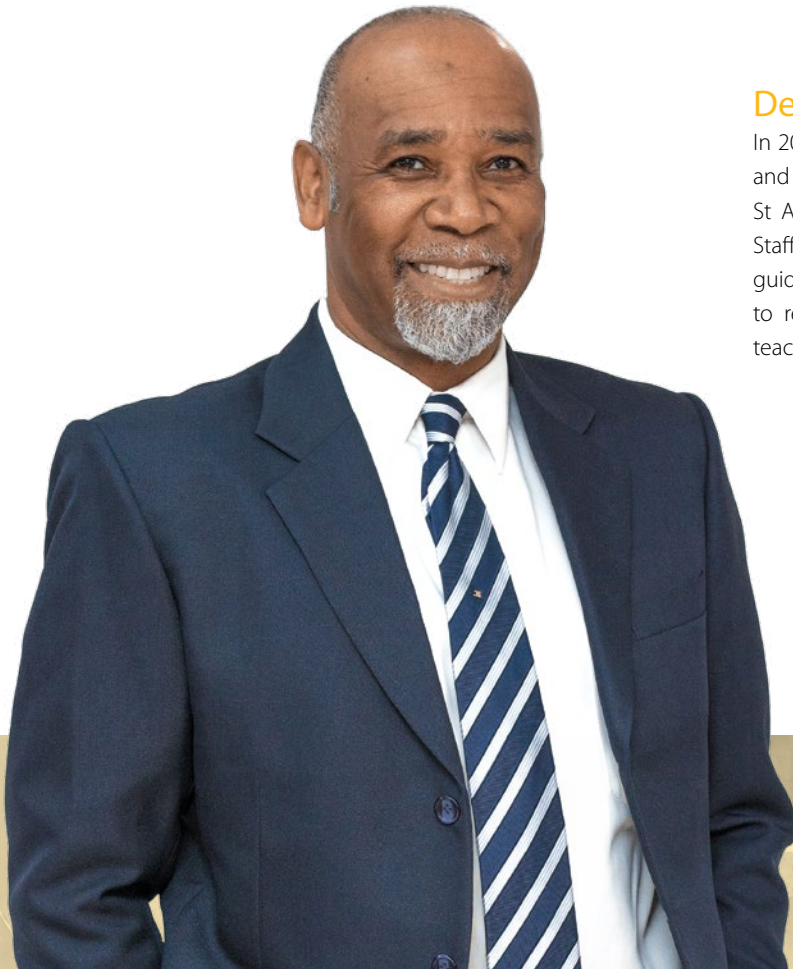
### Enrolment Trends – Medical Sciences



### Graduation Trends – Medical Sciences



# FACULTY OF SCIENCE and TECHNOLOGY



## Dean's Summary

In 2022/2023, after more than two years working remotely and in some instances on an in-person rotation system, the St Augustine Campus welcomed staff fully in June 2022. Staff responded to the demands of prevailing public health guidelines given that the COVID-19 pandemic continued to require adjustments to working conditions. In-person teaching for all undergraduate courses resumed.

Dr Brian Cockburn  
**Dean**

Major achievements included:

Commissioning of New GCMS Instrumentation and Technicians' Training - The Gas Chromatography–Mass Spectrometry instrument (GCMS) advances our strategic goals for expansion of analytical services toward income generation and boosting research in environmentally important persistent organic pollutants (POP's) - in service to existing needs of internal and external stakeholders.

Chemistry Olympiad - Four students were selected to represent Trinidad & Tobago at the ICHO in Zurich Switzerland 16 to 24 July. Although the students did not win medals, they performed creditably and showed significant improvement as compared to the 2021 performance.

Chemistry Curriculum - The Department has rebuilt its core academic curriculum in the year under review with emphasis on student demographics, stakeholder feedback, international challenges with the learning of Chemistry, and the enhancements in assessment and learning afforded by digital technologies. Our new programme features leaner options with greater immersion and practice in Applied and Analytical Chemistry, with an expansion into the digital arena to facilitate and supplement self-directed learning. New course outlines and supplementary materials are being prepared for the requisite reviews and approvals in the year ahead.

Computing & IT Curriculum - The BSc degrees, Computer Science and Information Technology overall structure, prerequisite course pathways, combinations and core content coverage were revised and approved based on the Association of Computing Machinery (ACM) 2020 international and local Industry recommendations. The DCIT started the process of conversion of its MSc Data Science and Computer Science from

Face-to-Face to Online/Blended; six courses from the MSc in Data Science and four courses from the MSc Computer Science were given approval for Online delivery mode.

Laboratory Renovations (Chemistry C1 Building) - Phase One of the Government of Trinidad & Tobago's refurbishment of the main teaching laboratory building was commenced in the year under review and is currently on schedule for a July 2024 completion date.

The Department of Life Sciences completed the two-year-long GBIF-BID project in July 2023, which resulted in nearly 40,000 specimen records from the UWI Zoology Museum (UWIZM), National Herbarium and National Museum and Art Gallery being published on a global biodiversity database making them accessible to all for research, education and conservation management. Around 40 new records for the Flora of Trinidad & Tobago were established (native and exotic plants). At least two new species (confirmed with DNA data) were discovered. One is restricted to Trinidad and the second to Tobago.

Official launch of the DLS's Pollinator Garden. The Dept. is collaborating with the Ministry of Planning and Development on this project.

11th & 12th Annual Bioblitz (September 2022 and June 2023) - Inter-campus biodiversity virtual citizen science event coordinated by DLS and the Trinidad & Tobago Field Naturalists Club (TTFNC) in partnership with staff and students at UWI Mona and Cave Hill, and other groups and NGOs on all three islands. In-person biodiversity citizen science survey & outreach event in Tobago. Organised by DLS and TTFNC in collaboration with THA, SpeSeas and Buccoo Reef Trust. Sponsored by First Citizens (TT\$35,000).

# FACULTY OF SCIENCE AND TECHNOLOGY

UWI MATH Fair 2022/2023 - The Math Fair was held on 13th February 2023, at The UWI, St. Augustine Campus. The year's theme was "Unleashing the Mathlete in YOU!" Over 2,100 students from more than 63 secondary schools from across Trinidad attended the event on that day. Mr Kyle Rudden, Consulting Actuary and Managing Director of KR Services Limited gave the feature address. In attendance was Mrs Nicole Harris-Knudsen, Curriculum Coordinator of the Ministry of Education.

There were 622 student visits at the Mathematics Help Centre for the academic year 2022/23, including 568 from FST, 30 from FSS, 13 from FENG, two from FFA, one from FHE and eight from FMS. Feedback on tutor performance has been significantly positive. The MHC provided face-to-face assistance as well as online assistance via Zoom for this academic year.

The PG Certificate and PG Diploma programmes in Medical Radiation Science were developed and approved for full online delivery. The MSc programmes in Renewable Energy Technology and Biomedical Physics were converted from face-to-face to blended delivery.

Upgrade of Physics teaching and research labs and start of construction of a new multipurpose laboratory to be used as an Electronics Laboratory, Computer Centre and Seminar Room.

The Pre-Science (N1) programme- The Pre-Science (N1) programme has sustained its growth in the number of students registering, as it remains a viable option among secondary school students and other prospects.

## **Department of Chemistry**

### **Summary of Achievements**

#### **Commissioning of New GCMS**

#### **Instrumentation and Technicians' Training**

The Gas Chromatography–Mass Spectrometry instrument (GCMS) advances our strategic goals for expansion of analytical services toward income generation and boosting research in environmentally important persistent organic pollutants (POP's) - in service to existing needs of internal and external stakeholders. The Department hosted key public and private sector stakeholders to an introductory session on 23 November 2023, where the GCMS capabilities and supporting analytical services were presented in outline. Supported by now certified and trained technicians, the modern GCMS suite will anchor and uplift our programme of accreditation for laboratory testing through its high levels of precision, reproducibility, and automated and digital recording of related quality assurance metrics.

#### **Curriculum Review**

The Department has rebuilt its core academic curriculum in the annum under review with emphasis on student demographics, stakeholder feedback, international challenges with the learning of Chemistry, and the enhancements in assessment and learning afforded by digital technologies. Our new programme features leaner options with greater immersion and practice in Applied and Analytical Chemistry, with an expansion into the digital arena to facilitate and supplement self-directed learning. New course outlines and supplementary materials are being prepared for the requisite reviews and approvals in the year ahead.



### Laboratory Renovations (Chemistry C1 Building)

Phase One of the Government of Trinidad & Tobago's refurbishment of the main teaching laboratory building was commenced in the year under review, and is currently on schedule for a July 2024 completion date. The project will add accessibility (elevator to upper floors) and safety infrastructure (separated electrical, plumbing, air handler services) as well as refurbish academic staff offices in its first phase.

Close collaboration with the contractors has afforded minimal disruption to the continuing programme of laboratory experiments, and student consultations with displaced teaching staff via hot-desking arrangements have proven a workable alternative to date.

### Anniversaries, Achievements & Awards

#### Undergraduate Prize Winners

The top performing students overall were as follows:

- **Dharamdass, Prithivi** - Southern Systems Limited Prize
  - Best Graduating Student
- **Hargreaves, Anna** - Massy Gas Products Trinidad Ltd.
  - Best Year III Performance
- **Mannette, Shane** - ANSA Coatings Limited Prize
  - Best Year II Performance
- **Jackson, Xavier** - Western Scientific Prize
  - Best Year 1 Performance

#### 10 Paid Industry Internships for Undergraduate Students

• Aura Oil and Gas Company Ltd.	1
• Citrus Growers Association	4
• e-Teck	2
• National Herbarium of Trinidad & Tobago	1
• Pascal's Bakery	1
• Unipet	1

A total of 26 students were placed externally for 2022/2023 internships as part of the Faculty's structured internship plan.

#### Postgraduate Awards

A Commonwealth Chemistry Congress Poster Prize went to graduate student Donna Hitlal for her work on *"Investigating the Effect of Virtual Immersive Technology on Student Interest, Motivation and Performance in Undergraduate Chemistry"*, Dr Michael Forde Supervisor.

Eight Chemistry graduate students were successful in securing \$120,620.43 in grants to support their research over the year in review. The amount reflects an approximate increase of 35% over last year.

#### Postgraduate Research Project Awards

Six students won awards for their postgraduate research. They included Winnette Collimore who graduated with a PhD Chemistry – High Commendation based on her research on *"The Monitoring and Quantification of Organochlorine and Organophosphate Pesticide Residues in Foods Consumed In Trinidad & Tobago"*

#### Academic Staff Awards

*The Audrey S. Bingel Fellowship for Female Scientists* awarded by the American Society of Pharmacognosy (ASP), 2022/2023 to Dr Yomica Powwder-George. Proposal-based fellowship toward travel for visiting scholar research at University of North Carolina at Greensboro, NC, USA from June 2023-August 2023.

# FACULTY OF SCIENCE AND TECHNOLOGY

## **Academic Improvements**

The Department recently concluded a one day workshop for all teaching staff to focus on factors affecting declining class attendance and student enrolment in Chemistry:

- the latest cognitive studies on science students' challenges with learning Chemistry
- design and implementation of competency-based educational systems
- rising numbers of women in emerging disciplines like Computational Chemistry
- mobile devices in classrooms
- digital technology as a facilitator of self-directed learning
- youth entrepreneurship as a UN sustainable development goal
- nature of science literacy among secondary level students

Together with stakeholder feedback, essential themes for modernising and rebuilding the Chemistry programme were identified, elaborated and leveraged in completing the design of the next curriculum. Through a directed programme of consensus building, all staff arrived at positions of support for the new curriculum, a successful Departmental first.

## **Administrative Improvements**

Digital transformation of the Department's administrative and recording operations has expanded to include the booking and management of analytical instrumentation with suitable software that is accessible online. Increased efficiencies in access and throughput have been immediate, especially impacting graduate students' research projects.

## **Outreach & Collaborative Initiatives**

### *External Stakeholder Engagements*

The Department provides services to external clients in the form of Workshops, Active Ingredients Testing, Quality Assurance, Infrared Analysis, pH Hair Products, and Ultrapure Water. Compared with the previous reporting year there was growth across all service lines, with the greatest percentage increases for Infrared Analysis and Quality Assurance services. However, the revenue from Workshops outstripped all other service lines, earning over TT\$80,000 for the year, followed by Active Ingredients Testing which earned just over TT\$50,000.

The Department was able to successfully build and market continuing professional education modules mainly focussed on analytical chemistry, with an average of ten registered participants.

### *Activities*

#### *Events*

The Department participated in the following external events:

- Walking in her footsteps - 15 November 2023
- STA UWI Research Festival - 23-25 November 2023
- Sci Fest - 2 November 2023
- Lakshmi Girls Career Day - 18 October 2023
- International Chemistry Olympiad – 16 - 24 July 2023
- National Chemistry Olympiad Training - 27 June - 12 July 2023
- National Chemistry Olympiad Exams - 27 April 2023
- Cape Demonstrations 2023 - 13 February - 19 April 2023

*Expertise*

Staff from the Department lent their expertise to the following technical committees:

- CABUREK National Steering Committee. Quality Infrastructure for Circular Economy in Latin America and the Caribbean (QI4CE LAC) Project - TTBS.
- Specification Committee for Upstream Effluent Management - TTBS.
- Protocol Concerning Pollution from Land-Based Sources (LBS Protocol) of the Cartagena Convention Open-Ended Working-Group (OEWG) on Monitoring and Assessment - UNEP.
- National Mirror Committee for Biodegradable Products - TTBS.
- Chief Examiner for Environmental Science (CAPE) - CXC.

*Secondary Schools Programmes*

In 2022-2023, the Department returned to the Annual CAPE Demonstrations for Secondary level students and teachers as follows:

- Eight half day sessions were conducted, 9.00am – 12 noon over the period 13-17 February, 07 & 23 March, and 19 April.
- Three hundred and eighteen students and 32 teachers participated.
- Seventeen Secondary Schools participated - 14 from Trinidad and three from Tobago.

**Impact**

The Chemistry Help Desk, an initiative dedicated to improving performance in Chemistry, returned to face-to-face operations following two years of virtual delivery via the MyeLearning platform.

For Semester I and II 2022/2023, academic staff members from all sub-disciplines within Chemistry were available for six hours each week in a centralised location to provide one-on-one assistance to all undergraduate chemistry students with questions on their course material and programme of study.

For the review period, the help desk received 113 visits from 74 students. The Department of Chemistry has noted a strong positive correlation between student attendance and academic performance and continues its efforts to encourage students to attend.

## **Department of Computing and Information Technology**

### **Summary of Achievements**

Academic year (AY) 2022/2023 marked the return of in-person classes for the Department of Computing and Information Technology (DCIT). Notably, the Staff of the DCIT welcomed the opportunity to meet and greet our continuing students for the first time. Dr Koffka Khan joined the DCIT as a Lecturer in Computer Science and Dr Michael Hosein was promoted to Senior Lecturer. Professor Patrick Hosein was on Sabbatical Leave and Dr Kris Manohar was his replacement.

AY 2022/2023 saw a 43% increase in the DCIT Computer Science (CS) enrolment numbers from the previous year whilst at the same time a 1.5% decrease in enrolment numbers for the IT programme. The removal of the mathematics requirement for the CS degree is partly responsible for the decrease in IT enrolment numbers since more students see the CS option as providing a path for trending career paths like Artificial Intelligence (AI), Cyber Security and Web/System Development.

# FACULTY OF SCIENCE AND TECHNOLOGY

The DCIT Software Engineering (SWEN) approximately doubled its enrolment to 13 students. However, after conducting a risk assessment of all the factors affecting the SWEN programme, a recommendation was made to suspend the programme. This recommendation was accepted.

Due to low enrolment numbers, the MSc in Computer Science was suspended in AY 2022/2023. The MSc in Data Science had a 30% increase in enrolment. There continues to be low enrolment in the MPhil and PhD programmes in Computer Science. A consequence of this trend is that the DCIT had difficulty attracting teaching assistants to support the teaching of undergraduate programmes. Also, some lecturers depend heavily on research students to help with their research agenda, and this impacted the research activity of the DCIT.

In October 2022, the DCIT had its Quality Assurance Review. Professor Richard Hurley and his team reviewed Departmental documents and interviewed students, staff, employers and other key stakeholders. The Review Committee (RC) submitted a twenty-seven-item recommendation report of which the DCIT has already implemented many of the RC recommendations.

For two years the undergraduate degrees Computer Science and Information Technology overall structure, prerequisite course pathways, combinations and core content coverage were examined for strengths and deficiencies relative to the Association of Computing Machinery (ACM) 2020 international and local Industry recommendations. Finally, AY 2022/2023, the DCIT got approvals for the upgrades to the undergraduate degrees in Computer Science and Information Technology with effective start date of September 1<sup>st</sup>, 2023.

AY 2022/2023 the DCIT started the process of conversion of its MSc Data Science and Computer Science from Face-to-Face to Online/Blended; six courses from the MSc in Data Science and four courses from the MSc Computer Science were given approval for Online delivery mode.

AY 2022/2023 saw the reintroduction of the Runtime Programming Competition. Sponsored by ZS and alumni Mr Jared Rikaard Hosein, the competition attracted over 90 students and allowed students to foster their creative and critical thinking skills.

The Department participated in a number of outreach activities and improved on its industry partnerships, which saw an increase in the number of participating companies in our Internship programme.

## **Anniversaries, Achievements & Awards**

Professor Patrick Hosein mentored a final year Electrical and Computer Engineering student and a Research Assistant at UWI to 2nd place in the Shell AI Hackathon 2022 in November 2022.

## **Undergraduate Prizes – DCIT**

### *Year 1*

- **Mr Neval Rattan** - The ZS Prize. Awarded for the Best Year I Performance in Computer Science
- **Ms Felicia Chan** - The Head of Department Prize. Awarded for the Best Year I Performance in Information Technology

### *Year 2*

- **Mr Jared Heeralal** - The Tucker Energy Services Holdings Ltd. Prize Awarded for the Best Year II Performance in Computer Science
- **Ms Amelia Seemungal** - The RBC Ltd Prize. Awarded for the Best Year II Performance in Information Technology

Year 3

- **Mr Deepak Ramsubhag** - The ZS Award. Awarded to the Graduand in Computer Science with the Highest GPA

### *Postgraduate Prizes - DCIT*

- **Mr Ojar Roger** - The Teleios Systems Ltd. Prize. Awarded for the Best MSc Research Project in Computer Science.
- **Mr Ojar Roger** - The ZS Prize. Awarded for the MSc (Computer Science) graduand with the Highest Examination Average 2022-2023.

### *Academic Improvements*

The Department completed its Quality Assurance Review during the period 17 – 21 October 2022. Recommendations made by the Review Team were incorporated in the Curriculum Review exercise in upgrading the Undergraduate degrees in Computer Science and Information Technology.

### *Outreach & Collaborative Initiatives*

DCIT participated in a number of outreach activities. These events promoted the DCIT and the discipline of computer science.

- Huawei Seeds for the Future programme 2022
- UN Women
- A virtual conversation entitled, “Conversations with Caribbean Women in ICT” 23, March 2023, P. S. Mohammed Invited Panelist
- UWI The Office of Business Development and CIBC FIBC- Research in Banking and Finance Business Forum
- 9th March 2023: Goodridge G., Khan K., Edwards K., Ogar R., Mendez N., UWITv Research in Banking and Finance Business Forum Presentation on Decentralised Vehicle Asset Management.
- UWI Post Graduate Open Day 28 June 2023
- UWI Undergraduate Open Days – 8 to 9 July 2023
- TTMA Career Fair – 22 July 2023

### *Web Development Boot Camp (WDB):*

The Department of Computing and Information Technology (DCIT) offered a fully online Boot Camp on Web Development (Web Dev) on behalf of The University of the West Indies (UWI), St Augustine Campus from 18 - 25 July 2022 from 10:00am to 12:00pm and 2:00pm to 4:00pm. This Boot Camp challenged secondary school students in Forms 4, 5 and 6 and prospective undergraduate students with no programming experience to become budding Web Developers. They covered the fundamentals of web development, from design to coding and deployment. There were 33 participants, five of whom were sponsored by Professor Patrick Hosein. Seven Year 1 and Year 2 Student mentors were used as support, having just completed INFO 1601.

### *DCIT Internship Programme 2023*

The DCIT hosted a virtual launch event for the 2023 Cohort of the internship programme. Industry stakeholders were invited to learn about the programme, hear testimonials and partake in a Q&A session.

From June to August 2023, the DCIT, in collaboration with 18 industry stakeholders, including First Citizens, Davyn, MSD, ODB, Wepala, Republic Bank, ZS, Tatil, Unipet and others, offered its internship courses to 52 Levels II and III students. eight UWI projects were also housed under DCIT Computing Connections Unit (CCU). This cycle, six interns obtained full-time employment in three of the organisations after the internship period was completed.

### *School Visits*

- St. Mary’s College 14 February 2023

# FACULTY OF SCIENCE AND TECHNOLOGY

## *DCIT Runtime*

**Runtime Programming Competition Season 1 2023** - Established in 2012, The DCIT Runtime is a competition designed for UWI Students in the field of Computer Science, Information Technology and Computer Engineering. It is designed to develop student's problem-solving skills, channel creativity and on-your-feet thinking strategies. This season was supported by our Sponsors ZS and an alumnus, Mr Rikaard Hosein. There were over 90 competitors from various programmes: Computer Science, Information Technology, Electrical and Computer Engineering, Actuarial Science.

## **Other Collaborations**

### *Rotary Club and the Click to Start Foundation*

In November 2022, the DCIT IT staff, Rotaract Club and the Click to Start Foundation collaborated on the refurbishing and donation of computers to those in need more info.

### *Cipriani College of Labour and Cooperative Studies Camp*

Presentation on the role and importance of technology, the role of artificial intelligence now and in the future (Should it be feared or welcomed?) and the consequences of abusing technology. (27 July 2023)

## **Department of Life Sciences Anniversaries, Achievements & Awards Staff Achievements**

- **Dr Ayub Khan** was promoted to the rank of Professor.

### *Student Achievements*

Two students from the Department earned their doctoral degrees this year:

- Bovell, Owen - PhD Plant Science: The influence of secondary seed dispersal and herbivory on the maintenance of monodominance in the lowland tropical forests
- Evelyn, Sarah - PhD Plant Science: The Mechanisms Responsible for Variation in Vase Life of Anthurium Andraeanum Hort.

There was one graduate from the MPhil programme:

- **Ms Kollam, Mounika** - Characterization of emerging viruses in hot peppers of Trinidad - MPhil Microbiology Pass.

Five out of the nine persons graduating with the MSc Biodiversity Conservation and Sustainable Development in the Caribbean, did so with distinction, as did all three graduates from the MSc in Biotechnology.

### *Prizes*

The Department of Life Sciences awarded 16 prizes for outstanding student performances. Two students received more than one award:

- **Ms Alana Nelson** won both "The Massy Group Prize" for the Best Level III Performance in Biology and "The St. Augustine Medical Laboratory Prize" for the Best Performance in the Biotechnology Specialization.

- **Ms Krysten Paul** won both “The Professor Dave Chadee Prize” for the Best Performance in the Ecology & Environmental Biology Specialization and “The Institute of Marine Affairs Prize” for Best Performance in the Marine Biology Specialization.

### Research

**Completion of the two-year-long GBIF-BID project** in July 2023, which resulted in nearly 40,000 specimen records from the UWI Zoology Museum (UWIZM), National Herbarium and National Museum and Art Gallery being published on a global biodiversity database making them accessible to all for research, education and conservation management.

**New records and new species for the Flora of Trinidad & Tobago.** Around 40 new records for the Flora of Trinidad & Tobago were found (native and exotic plants). At least two new species (confirmed with DNA data) were discovered. One is restricted to Trinidad and the second to Tobago. Several papers based on these findings are in progress (JFMorales).

### Outreach & Collaborative Initiatives

In July 2023, the Minister of Planning, the Honourable Penelope Beckles officially opened the Department’s pollinator garden. The Department is working with the Ministry on this project. In July 2023, the Department opened its doors to approximately 60 visitors- three groups per day between the ages of 5-13 years to tour our butterfly enclosure and our UWIZM over a four day period. Overall, the feedback was extremely positive with visitors anxiously awaiting our next scheduled group tours. The Department partnered with NIHERST in this activity.

**11th Annual Bioblitz** (September 2022) - Inter-campus biodiversity virtual citizen science event coordinated by DLS and TTFNC in partnership with staff and students in Mona and Cave Hill, and other groups and NGOs on all three islands.

**The 12th Annual Bioblitz** (June 2023) - In person biodiversity citizen science survey & outreach event in Tobago. Organised by DLS and TTFNC in collaboration with THA, SpeSeas and Buccoo Reef Trust. Sponsored by First Citizens (TT\$35,000).

### Impact

#### *Honours and Accolades for Professor Gobin*

A new deep sea worm (*Lamellibrachia judigobini*) was described (March 2023) for the Caribbean (Trinidad & Tobago and Barbados). The worm was named in honour of Professor Judith Gobin for her contributions to the field of marine biodiversity.

A few months later in July, Professor Gobin was elected as the President of the International Association for Biological Oceanography (IABO).

#### *Data and Metrics*

The number of articles published in refereed journals – 56

#### *Visual Content*

**Natural History Tours:** The DLS successfully hosted the first of this type of activity in July/August 2023. The feedback from a variety of stakeholders was extremely positive.

**Butterfly enclosure and Launch of a Bee (Pollinator) garden opening:** The DLS successfully launched its Pollinator Garden and at the same time showcased its Butterfly enclosure.

# FACULTY OF SCIENCE AND TECHNOLOGY

## Department of Mathematics and Statistics

The Department of Mathematics and Statistics recognises that its courses contribute to the scientific areas of academic research and personal development of faculty and students. The Department has been channeling some of its efforts to help students reach their potential by inviting them to seek help at its Math Help Center. The Department runs Short Courses for professionals in the field and organises an impressive outreach event for secondary school students with its trademark UWI Math Fair.

The Math Help Center is an initiative that provides students with assistance in courses with any mathematical or statistical component across all Faculties of UWI, St. Augustine.

The Math Fair targets secondary school students from Forms 1-6 across the nation to develop critical math skills in a fun and exciting way. It had a very impressive turnout last year and this academic year the Department is planning for an even greater numbers of visitors on 1<sup>st</sup> Feb. 2024.

The short courses programme (held twice a year excluding bespoke courses) seeks to equip participants with knowledge of mathematical and statistical concepts and their application to real-world data through programming software. It targets professionals working in the industries to return to UWI for acquiring specific competencies in data management and basic analysis.

## Anniversaries, Achievements & Awards

The Department guided three Graduate students to complete their Postgraduate programmes in 2022/2023 academic year.

**Mr Mathew Sookoo.** Title of Thesis: *“Fixed Point Theorems in Some N-Dimensional Generalized Spaces”* was awarded his MPhil in Mathematics. **Dr Rao Gunakala** was his supervisor.

**Mr Ian Forde.** Title of Thesis: *“Associated Factors of Under-Five Mortality in Selected Middle- and Low- Income Countries: Including an Investigation of Time-Dependent Variables and Frailty”* was awarded his PhD in Statistics. His supervisor was **Dr V. Tripathi.**

**Mr Tyron Dass.** Title of thesis: *“Some Studies on the Influence of Variable Viscosity, Couple Stress Fluid, and Slip-Velocity on The Lubrication Characteristics of the Finite Journal Bearing”* was awarded his PhD in Mathematics. **Dr Rao** and **Dr Dyer** were the supervisors.

## Outreach and Collaborative Initiatives

A Seminar was held via zoom on the topic “The Conundrum of P-values in Statistical Inference” on 25 November 2022 by the distinguished **Professor Abhaya Indrayan**, Delhi University College of Medical Sciences, India.

The **Math Fair** was held in February 2023 at The UWI, St. Augustine Campus. The year’s theme was “Unleashing the Mathlete in YOU!” Over 2,100 students from more than 63 secondary schools from across Trinidad attended the event on that day. **Mr Kyle Rudden**, Consulting Actuary and Managing Director of KR Services Limited gave the feature address. In attendance was **Mrs Nicole Harris-Knudsen**, Curriculum Coordinator of the Ministry of Education.



## Impact

### *Math Fair*

There are many ways to measure the success of an event. One of them is feedback from attendees. As we all know, teenagers can be brutally honest, so the Department is heartened to have received the following responses from attendees:

"This here was real fun. Like, real fun. I played games and it was real fun. That's all I could say. I not sure what I play - but it was real fun."

**Brian - Form 3, ASJA Boys' College (Charlieville)**

"It was really interactive. I won some stuff. I won the math competition. I got a lollipop. I got some career advice from the bio-medical kiosk. They gave me advice as to what courses to take after form six."

**Sebastian - Form 6, Queen's Royal College**

"We designed a poster that displayed our design for a home using geometry. We had reinforced pillars at the base, so it'd be earthquake proof. The category was math is everywhere, so we had to show its real-life application."

**Jibril - Hillview College**

## Data and Metrics

### *Mathematics Help Centre*

There were 622 student visits at the **Mathematics Help Centre** for the academic year 2022/2023, including 568 from FST, 30 from FSS, 13 from FENG, 2 from FFA, 1 from FHE and eight from FMS. Feedback on tutor performance has been significantly positive. The MHC provided face-to-face assistance as well as Online assistance via Zoom for this academic year.

## Short Courses

In July/August 2022, the Department offered online short courses on R Beginner, SPSS Beginner, SPSS Intermediate, SPSS Advanced, and Introduction to Data Science to 57 participants, generating TT\$83,400. In January of the following year, online short courses were offered on R Beginner, R Intermediate, SPSS Beginner, SPSS Intermediate, and Power BI to 33 participants, generating TT\$48,600.

Another online short course was conducted on "Data Mining with Power BI" specifically for 18 participants of the Tobago Tourism Agency, generating \$21,600. Similarly, a bespoke short course was created for The Division of Education, Research, and Technology of the Tobago House of Assembly, on "Data Analysis with SPSS." This was conducted face-to-face, with 15 participants, and generated TT\$15,000.

Finally, short courses on R Beginner, SPSS Intermediate, Introduction to Data Science, and Applied Sampling were conducted face-to-face for 60 participants from the Central Statistical Office, generating TT\$90,000.

## Department of Physics Summary of Achievements

The Department continues to work toward improving its enrolment numbers and to increase its suite of offerings at both the UG & PG level. To support The UWI's AAA strategic objective AC2 i.e. to increase the number of full fee-paying students, fully online PG Certificate and PG Diploma programmes in the area of Medical Radiation Science were developed and approval was gained to offer both of our MScs (Renewable Energy Technology and Biomedical Physics) in blended mode after converting mode of delivery from face-to-face to blended.

# FACULTY OF SCIENCE AND TECHNOLOGY

To achieve The UWI strategic objectives AC3 and AC4, the staff complement of the Department is finally at its required level with the recruitment of lecturers in Renewable Energy, Biomedical Physics, and Electronics and so it is anticipated that the research areas will continue to expand and thrive.

The Department remains committed to provide state of the art facilities to students and staff via the purchase of new equipment, establishment of research in the area of Medical Physics, various software packages, upgrading of teaching and research labs and start of construction of a new multipurpose laboratory to be used as an Electronics Laboratory, Computer Centre and Seminar Room, in order to achieve our strategic objectives AC3 and AC4. The Department was able to file one patent, produce 28 peer reviewed journal publications (almost double from last year), one book, three book chapters and two conference papers. In an effort to support the revenue revolution mandate of The UWI as per its strategic objective AL3, we continue to generate revenue through our self-financing programmes, the Electronics Workshop, Mechanical Workshop, Electron Microscopy Unit and XRD unit and advertise them within the Campus, locally and globally through various activities. Two short courses were proposed for Summer and many Workshops/Seminars/Guest Lecturers were organised in association with local/regional/international experts to increase global presence of The UWI. To support The UWI's AAA strategic objective AL2, we are going to launch STA Physics Alumni Association on 14<sup>th</sup> Dec. 2023.

## **Anniversaries, Achievements & Awards**

The Department of Physics had the greatest number of PG students graduating in the Faculty- MSc Renewable Energy Technology had 24 students; MSc Biomedical Physics had six students; one PhD and one MPhil student. Overall, the Physics Department had 32 PG Students graduating in the 2022/2023 graduation ceremony.

The Department published one patent, 28 peer reviewed journal publications with 2,565 citations between 2022 and 2023 which is three-fold from the 2021 to 2022 period. Our publication rate has also been almost doubled as compared to last reporting time.

Through the RADIAL (radio Astronomy data imaging and analysis lab) programme (with 13 USA universities of which UWI is the only non-USA university), our following three undergraduate students got internships (award) at University of Wisconsin -Madison for ten weeks in the USA with all costs covered and including about US\$7000 stipend. Furthermore, they participated in January in the Major AAS (American Astronomical Society) meeting in the USA.

- **Ms Kavita Gosine-Bissessar**
- **Mr Soren Ramdhanie**
- **Ms Brianna Sampson**

**Dr Stephanie Mohammed** was the Winner of Three Minute Thesis 3MT competition organised by Mona Campus of The UWI (2022).

**Ms Melissa Megan Steele** received a scholarship from the International Atomic Energy Agency (IAEA). The Marie Skłodowska-Curie Fellowship programme (MSCFP) covers tuition up to €20 000 for the study period of the MSc Biomedical Physics and provides €20 000 as a living costs grant (November 2022).

**Dr Vinod Kumar** received a Campus Research and Publications Fund grant (TT\$75,000) for a project on “Fabrication of oxides-based nanostructures for highly efficient solar cells” (31 July 2023).

### Academic Improvements

The Department received all approvals for the Certificate and Diploma in Medical Radiation Science, to start from September 2023. The Department completed the task of converting the MSc Biomedical Physics to blended mode. Most of the courses in the MSc Renewable Energy Technology programme were converted to blended mode. This transition allowed some foreign students to enter the programme.

### Administrative Improvements

Most of the recommendations of the Quality Assurance review team are being implemented. All departmental processes are being streamlined and our departmental quality manual indicating standard operating procedures is being updated.

### Research

The following are just a few examples of the research undertaken in the Department during the review period.

- Research on materials for different type of solar cell e.g. Perovskite, Bulk-heterojunction, dye sensitized and their modelling to improve their efficiency and reduce cost.

- A just energy transition for a hydrocarbon rich SIDS
- A Prefeasibility Solar Photovoltaic Tool for Tropical Small Island Developing States
- Effects of 150 kHz intermediate frequency electromagnetic radiation on fertility indicators in male rats.
- Detection of blood flow through artery in the presence of steno-occlusive disease post liver transplantation by modelling for theatrical and detrimental environmental changes
- A quantitative analysis of radiation-induced contamination post-iodine-131 treatment for thyroid disease.

### Patent

Applicants:	A. Sharma, H. P. Singh, D.P. Sharma, J. P. Singh
Application Number:	202111034230 (Utility Patent)
Patent Title:	Underpass Collision Monitoring
System Status:	Published
Country:	India
Date:	June 23, 2023

### Outreach & Collaborative Initiatives

Throughout the review year, the Departmental Industry Liaison Committee continued to foster strong connections with industry partners, aiming to bolster the visibility and relevance of the Department. Concurrently, plans were set in motion to establish the STA Physics Alumni Association, to further enhance the Department’s network and support structure. The Alumni Sub-Chapter Launch & Stakeholder Thank-You Function, was scheduled for 14 December 2023, celebrating the Department’s alumni and supporters.

# FACULTY OF SCIENCE AND TECHNOLOGY

In a bid to attract more applicants, the Department embarked on an array of outreach initiatives, including organising school visits, hosting STEM Camps, and conducting specialised information sessions tailored to prospective students' interests.

An exciting development emerged through an agreement forged with Flensburg University of Applied Sciences, paving the way for the loan of cutting-edge Sonic Detection and Ranging (SODAR) equipment. This innovative remote sensing device measures wind speed and direction across various altitudes, offering valuable insights into atmospheric dynamics.

Furthering its collaborative endeavours, the Department embarked on a compelling PhD research project in collaboration with the Cocoa Research Unit. Spearheaded by **Ms Priscilla Sahadeo**, this project entails comprehensive data collection from six distinct farming fields, focusing on the solar drying of cocoa beans for commercial ventures.

A major initiative from the Department, the STEM Camp unfolded under the guidance of **Professor Shirin Haque** and received enthusiastic support from the Department's academic cohort. Held over the course of a week in July 2023, this immersive experience provided students with a unique platform to delve into the realms of science, technology, engineering, and mathematics. During the UWI Open Days in July 2023, the Department's booth caught the eye of many, drew an audience and was featured on the TTT news.

In a bid to address environmental challenges, the Electronics Workshop initiated discussions with personnel from the Institute for Marine Affairs (IMA) regarding the development of a commercially viable project to promote climate resilience in the South Oropouche river basin. Meanwhile, the Electronics Workshop facilitated a workshop on Embedded Systems.

## **Data and Metrics**

The overall number of citations recorded, by Department, over the reporting period was roughly 2,565.

## **Refereed Publications**

- Conference Proceedings & Posters – 4
- Books - 1
- Chapters in Books - 3
- Refereed Publications - 28

## **Prizes**

- **Rattan, Neval** - The Head of Department Prize.
- **Moses, Junelle** - The Azad W. Harripaul Prize
- **Dhanoosingh, Alex** - The Head of Department Prize
- **Gosine, Kavita** - The Bruno Mitchell Prize
- **Mohammed, Dillon** - Nuclear Associates Imaging Ltd Prize (to be changed to the Anthony Archibald Prize)
- **Jahoor, Tauriel** - The Frederick Ignatius Campayne Prize
- **Mahabir, Manika** - The A.A. Laquis Prize

## **Strategic Review**

### **Access**

#### **Department of Chemistry**

During the period 2022/2023, the Department reviewed programme offerings relative to CARICOM/National Qualifications Frameworks (CQF/NQF) and identified opportunities for continuing professional education (CPE) and micro-credentials. An in-person team visit to the University of Guyana was done to promote short courses and the MSc in Occupational Health and Safety to meet such needs generated by the recent and rapid oil-industrial development. A curriculum review and Mind Map were prepared with special emphasis on deliverables identified through stakeholder feedback instruments.

The CAPE practical demonstrations sessions were held for 380 students from sixteen Trinidad and two Tobago schools in March 2023 covering Unit 2 of CAPE syllabus on Gas-Liquid Chromatography, IR, UV-Vis and Mass Spectroscopy, Fractional & Steam distillation, and Gravimetric analysis. Secondary school visits to chemistry teaching and research lab facilities were facilitated on request by science teachers, programme coordinators or school administrators with limited laboratory infrastructure. However, the biggest challenge was the lack of Marketing and Communications expertise and formal budget allocation for such activities.

A continued diversification of services were offered by the Department through the Research Outreach Consulting and Analytical Services (ROCAS) unit. A workshop in Modern Techniques of Analytical Instrumentation was offered to local industry professionals in Aug 2022, Jan 2023 and July 2023, with a special session planned for Guyanese participants in early 2024 in response to interest from the outreach visit.

Significant progress was made in the drive to attain national bureau of standards accreditation of analytical services through consultations with Trinidad & Tobago Bureau of Standards Project Lead on ISO 17025 Standard. Quality manuals, work instructions, standard operating procedures, impartiality and confidentiality agreements for technical staff, and liability contracts for clients were all compiled by the Department and the Research Fellow in Pre-Assessor Training was registered.

The new curriculum now targets delivery and assessment of specific competencies including estimates of prior knowledge and incorporates recent pedagogical findings from cognitive studies on the challenges of learning Chemistry such as the utilization of automaticity for multi-step processing of chemical quantities.

With a focus on fostering self-directed learning and exercises using open resources, the Department sought to expand into the digital space via mobile device apps to supplement face-to-face lectures labs and tutorials. Open-source digital resources for visualization of molecules and introductory chemical calculations were widely promoted, a joint department and student amenities fund procurement was initiated for new computers for an undergraduate computer lab in progress. The Department also focused on renewing site-licenses for proprietary Chemistry software. Twenty-six students received internships with 11 local industries, 10 with stipends. Continued support to the Chemists in Action (CHEMIA) student group to stimulate enthusiasm and interest in Chemistry through the provision of office space, administrative support and promotion of planned student activities. Chemistry Help Desk Services improved through increased availability of full-time academic staff.

Infrastructure refurbishment and upgrades also were initiated during the 2022/2023 period. The Postgraduate lounge refurbishment began, with a completion date of December 2023. Government funded (PSIP) construction of new services building to house electrical, water, air conditioning, chemical/hazardous materials, air extractors, elevator, and new fume hoods as Phase 1 of teaching laboratories (C1) upgrade; on target for July 2024 completion date. Liquid nitrogen plant repairs were completed and returned to continuous (24/7) operation for one year to date. The annual service and certification of vacuum, high pressure and fire detection systems were also completed, along with technician training in GCMS instrumentation techniques. Research lab renovations by internal maintenance team have provided wide improvement to infrastructure with dramatic decline in external contractor services and costs. These include upgrades to the postgraduate

# FACULTY OF SCIENCE AND TECHNOLOGY

analytical lab in building C4, MSc OESH office and ventilation system repairs in three research laboratories of building C3. Full appointment of instrument technician for servicing and maintenance of research equipment.

The Department has an Nuclear Magnetic Resonance (NMR) facility for the analysis of organic molecules comprising three spectrometers. In 2022/2023, refurbishment of the air compressor, service lines and electronic cabling was successfully completed for all three instruments by the Department's technician, with significant savings in operational cost. An engineering service and maintenance visit by the manufacturer vetted the methodologies deployed above and effected a return to service of the 300 MHz instrument and its auto-sampler accessory. Procurement, installation and commissioning of an Atomic Absorption Mercury Hydride System for Arsenic and Mercury Analyses (TT\$55,000).

During the period under review the Department saw growth in academic staff applications to, and awards from, the Campus Research and Publication Fund. Sourcing of additional funding for graduate student research visits to international facilities to close the gap between the Campus Research and Publication Fund awards and actual/incidental expenses. However, the recurrent budget allocation for maintenance of computers is inadequate to address projected student and staff needs for upgrades of hardware and increased digital engagement. Licensed software for teaching and research is likewise expensive and beyond the approved total expenditure limit of \$20,000.

## *Department of Computing and Information Technology (DCIT)*

The Department of Computing and Information Technology (DCIT) hosted the annual Online Web Development Boot Camp (WDB) from 17 – 24 July 2023, to foster an interest in Secondary school students in the IT discipline. There were 33 participants, five of whom were scholarships sponsored by **Professor Patrick Hosein**. Seven Year 1 and Year 2 student mentors were used as support having just completed INFO 1601. The cost of the camp was TT\$625. The DCIT received 33 registered and paid participants, thus, the income was TT\$20,625. The seven mentors were each paid a stipend of TT\$300.00 for their services and a TT\$2,000 budget for prizes was allocated. Thus, the overall profit was TT\$20,625. The Department depends on the goodwill of staff and students to conceptualise, organise, and execute the entire boot camp. No allocation was made for this line item, although it was requested in the past.

From June to August 2023, the DCIT, in collaboration with 18 industry stakeholders, such as, First Citizens, Davyn, MSD, ODB, Wepala, Republic Bank, ZS, Tatil, Unipet etc. offered its internship courses to 52 Levels II and III students. Eight UWI projects were also housed under DCIT Computing Connections Unit (CCU). During this cycle, six interns obtained full-time employment in three of the organisations after the internship period was completed. Some of the challenges encountered through this programme included intern rejections, a lack of suitable communication skills, poor technical performance and problem-solving skills.

On the 6 and 20 October 2022, the UWI Computer Society (UWICS) and the Students' Guild, with the guidance of the DCIT Staff, conducted four Web Design workshops for students. They also hosted a Cyber Security Workshop on 13 October 2022.

On 26 October 2022, the COMP 3613 – Software Engineering II course had a ‘Fireside Chat’ with Guest Speaker **Mr Randy Ram**, UWI Alumni Senior Engineer at Amazon Web Services. **Mr Nicholas Chamansingh**, UWI Alumni General Manager at Digicel Group also gave a guest lecture on 11 October 2022. Both lectures were well received and appreciated by the students. On 27 October 2022, the Department invited Professor Frank Yam, Leader in Cybersecurity, Innovation & IT, Entrepreneur, Mentor to present a guest talk on Cybersecurity to staff and students. On 10 November 2022, the DCIT IT Staff and Teaching Assistant gave support for an educational event for UWI students to learn about computers and PC building.

### *Department of Life Sciences*

The MSc Biodiversity and Sustainable Development programme has been suspended since 2022/2023 due to unsustainability issues and is still undergoing revision as of 2023/2024.

The MSc Biotechnology programme has also been suspended for 2023/2024 and is being revised due to its unsustainability in its previous format. Developing academic programmes with the help of academic staff is a challenging task. However, many academic staff members suggest that they have too much on their plates, which is not entirely accurate, even if most are still not meeting their 12-credit teaching workload. In order to make progress, a UWI intervention is necessary for full adherence to the workload.

The QA review was completed and the DLS is in the process of initiating some of the suggestions. At the same time, a number of the suggestions were already in place within the DLS. As part of our efforts to enhance throughput, teaching, and learning the entire curriculum is being reviewed. To make sure this procedure is carried out successfully and efficiently,

progress meetings are being held on a regular basis. Initiatives to develop continuing student engagement: The DLS has embarked upon a number of activities to highlight two of its key units: the National Herbarium, and the UWIZM. This includes developing activities around incorporation of the two units within our Teaching and Learning modules. However, Academic staff often consider these activities as separate from their teaching and research, resulting in reduced participation.

The DLS has created a special board which showcases all of the Wellness and Health options available to students. This board is successfully viewed as our students walk along the main corridor. The DLS organised a “Walk-in Help Desk” session for students to highlight any issues they may be facing with their programme and to offer career advising. The objective was to offer the best assistance, especially considering the challenges of transitioning from online to face-to-face during COVID-19. The Department has found itself in a bit of a quagmire in respect of how exactly a Lecturer can be evaluated in terms of his/her teaching. While there is an attempt to address the concerns of students in respect of Lecturers teaching styles etc., it is extremely difficult currently to use these comments/suggestions in the evaluation process.

The DLS held Student Staff Liaison – Class Representative Training Sessions that was meant to enhance leadership skills through student engagement is crucial in several ways. The DLS recognises that Student Staff Liaison meetings provide a valuable opportunity to develop essential leadership skills. To aid class representatives in navigating their leadership role, the DLS has successfully introduced Class Representative training. The main objective of the training sessions will be to provide all class reps with the necessary guidance and training for effectively performing the role of class rep through a short

# FACULTY OF SCIENCE AND TECHNOLOGY

interactive workshop in the 2nd to 3rd week of each semester. Additional guidance will be provided to new class reps through class rep support group each semester.

Staff are already guided in this respect to increasing and improving research publications.

## *The Department of Mathematics & Statistics*

The Department continued to review its courses to ensure that courses/ programmes meet regional/national needs and adhere to quality assurance guidelines. Due to the online delivery of courses during Covid-19, there is a demand for online courses, and many lecturers are now more willing to offer courses through blended learning. The challenge identified during the Covid 19 era was one of proper assessment in the online mode. With classes back to face-to-face teaching, this challenge can be addressed more fully. The Department offered several short courses on computational Statistics in January and August and these courses have generated funds.

The department conducted face-to-face and virtual student/staff liaison meetings. The respective lecturers addressed the students' concerns, and the minutes of these meetings were forwarded to the Faculty Board. Lecturers continued to make themselves available to students via Office hours and myeLearning. In conjunction with the Dean, Faculty of Science and Technology, the Department of Mathematics and Statistics continued its operation of the Mathematics Help Centre in 2022.

A designated email address was assigned to the MATH Help Centre (sta-mathhelpcentre@sta.uwi.edu). MATH Help Centre services will continue to be extended to the Faculties of Social Sciences, Engineering and Medical Sciences. The Department

hosted several face-to-face virtual seminars to encourage staff and graduate students to publish their research work in peer-reviewed journals.

## **Alignment**

The Faculty received a number of grants and donations during the 2022/2023 academic year.

- A Rose Environmental Equipment Donation to MSc OESH programme – GASMET Analyzer at a value of USD\$40,000.
- RSC Research Fund - Development of N-linked Cyclodextrin Analogues, March 2023, Dr Lorele Lalgee, £3,982.
- Audrey S. Bingel Fully Funded Research Fellowship in Pharmacognosy. Department of Chemistry and Biochemistry, North Carolina, Summer 2023, Dr Yomica Powder-George, USD\$12,000.
- Grant: Fieldwork – Arsenic in Local Chicken Products and Health Risks, November 2022, Dr Terry Mohammed, TT\$31,000.
- Grant: Fieldwork – Dietary Acrylamide Assessment in Caribbean, December 2022, Dr Grace-Anne Bent, TT\$28,000.
- Fieldwork - Fluoroalkyl Substances in Food Packaging, March 2023, graduate student, TT\$14,000. Grant: International Conference on Global Public Health presentation - Arsenic in Chicken Products, March 2023, graduate student, TT\$10,000.
- Green Chemistry and Engineering Conference presentation – Green Approaches to Upgrading Levulinic Acid, May 2023, graduate student, TT\$10,000.

The Department's Research and Consulting Services brought in TT\$240,000 for the academic year.

The Faculty commissioned new GCMS Instrumentation in April 2024 provided by the Faculty of Science and Technology



to boost research in Persistent Organic Pollutants, Pesticides, and Environmental and Human Toxicology. Technician training was completed in July 2024. New analytical services from GCMS instrumentation to be introduced to stakeholders from government divisions, local small businesses and industry, scheduled for November 2023.

The Faculty continues to facilitate outreach activities such as visits to secondary school by academic staff. Staff also sponsor the Dr Yomica Powder-George Award for Academic Excellence in Chemistry at Bishop's High School, Tobago.

Temporary arrangements were approved by Campus Management for funding the growth-phase operations of spin-off Company UWI Seal-IT through the Banner System. New Bursary Accounts and procedures established for income generating analytical and consulting services. Impartiality and confidential agreement templates deployed for contract analyses. The Faculty hosted the Commonwealth Chemistry Congress from 23-25 May with 220 delegate members of the Federation of Chemical Sciences Societies from 33 countries with support of the Royal Society of Chemistry. Department chaperones were utilised for the International Chemistry Olympiad participants at event finals in Zurich, July 2023.

### **Agility**

#### *Department of Chemistry*

Three iterations of Analytical Instrumentation workshops generating revenue of ~\$25,000 each.

The Department expanded ROCAS consulting services to a growing market for new products in cosmetics and personal care products. Assistance was made by the Department to MSc OESH prospects from Uganda, Lesotho and Nigeria with Queen Elizabeth Commonwealth Scholarship applications. The

Department continued to supply commercial hand sanitizers to the UWI Bookshop and for Faculty unit events. A business partnership is being sought for a project to convert natural products knowledge base and intellectual property to digital reference resource with fee-accessible online availability. The refurbishment of ATSS staff room has been completed, and the procurement of appliances and furnishings are in progress.

The Department continues several ventures and programmes during the period under review. These included the Health and Wellness programme, sharing of graduate research Chemistry seminars across all campuses to enhance participation, cross-fertilise research project ideas and diversify feedback to higher degree candidates, and participation of academic staff in digital and virtual delivery modes as offered through the Centre of Excellence in Teaching and Learning.

A project to upgrade video recording equipment for laboratory spaces is 99% complete with only user training outstanding. Digital file systems for information exchanged and a reduction in printing costs is being expanded. However, a challenge is that recurrent budget allocation for maintenance of information technology is inadequate to address staff needs for upgrades of hardware and increased digital engagement.

#### *The Department of Mathematics & Statistics*

The Department offered several short courses on computational statistics in January and August 2023 (online and face to face). These courses have generated funds for the University. The Department also conducted a two-day workshop for the members of the Tobago House of Assembly in January 2023, which also generated revenue for the Department. Some of the challenges encountered included cancellation due to low enrolment and high advertising costs.

# FACULTY OF SCIENCE AND TECHNOLOGY

## *Department of Life Sciences*

The COVID pandemic stymied many of the team-building events eg. cricket, cooking competition, Christmas party etc. However, these activities were expected to re-commence as everyone is now back to face to face operations. The DLS is engaging HR in preparing a motivational and team-building exercise in 2024 and meetings with Academic Staff concerning their Career paths has continued however it has been met with some challenges including WIGUT protest action, general non-enthusiasm, and overall disinterest. Manuals/Protocols for Academic and Administrative Processes, and templates for requests are now all completed and Health and Safety Manuals (In the Labs, In the Field) are in progress. A manual with clearer guidelines for Custodial staff including a training programme for both Supervisors and staff- has been completed. The DLS continues to take a proactive approach towards reviewing and restructuring the roles and responsibilities of its administrative staff to provide unwavering support to DLS operations. The DLS has incorporated the use of SharePoint and Microsoft 365 tools to enhance the efficient dissemination and gathering of information.

## *Department of Computing and Information Technology*

The Project and Internship courses developed the 'CETL Proposal Review App' to aid the staff of the Centre for Excellence in Teaching and Learning in approving course outlines for the various UWI programme proposals. The app is at the beta testing stage ,and it should be launched soon. The DCIT's Computing Connections Unit will take over the maintenance of the project for an annual fee.

The Project and Internship courses also developed the 'SAC Lockers App' for the Student Activity Centre to aid staff to manage the SAC Locker rentals. The app is at the beta testing stage, and it should be launched soon. The DCIT's Computing Connections Unit will take over the maintenance of the project for an annual fee.

## Distinguished Visitors

### Department of Life Sciences

#### Professor Dr Alfredo Cascante

Herbarium, Professor, Department of Biology  
University of Costa Rica, Costa Rica

#### Dr Swanne Gordon

Assistant Professor of Ecology and Evolutionary Biology  
Cornell University, USA

#### Professor Anne Magurran

Professor of Ecology and Evolution  
University of St Andrews, Scotland, UK

#### Dr Andres Lopez Sepulcre

Assistant Professor of Ecology and Evolutionary Biology  
Cornell University, USA

#### Professor Dave Severson

University of Notre Dame

#### Dr Christopher Tyrrell

Herbarium, Adjunct Assistant Professor  
Plant Evolution/Biodiversity Informatics,  
Research Curator of Botany  
Milwaukee Public Museum, USA

### Department of Physics

#### Professor Andrew Greentree

Professor of Quantum Physics  
Australian Research Council Future Fellow  
& Chief Investigator in the Australian  
Research Council Centre of Excellence for Nanoscale BioPhotonics,  
RMIT University, Melbourne, Australia

#### Professor Yogendra Kumar Mishra

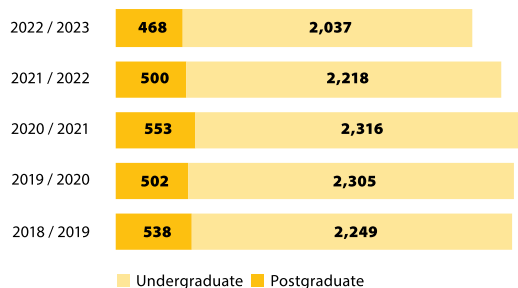
Professor  
University of Southern Denmark

#### Professor Simon Anderson

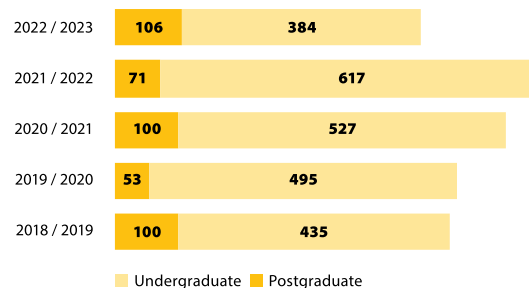
Director of the Chronic Disease Research Centre of CAIHR  
(Caribbean Institute for Health Research)  
Professor of Population Health Sciences,  
Faculty of Medical Sciences, The UWI, Cave Hill Campus

## Enrolment & Graduation Trends

### Enrolment Trends – Science & Technology



### Graduation Trends – Science & Technology



# FACULTY OF SOCIAL SCIENCES

## Dean's Summary

The Faculty of Social Sciences continued on its path to becoming more 'socially engaged and solutions oriented'. This was demonstrated in three areas: student development, staff development and outreach activities.

Notwithstanding the increased number of students requesting counselling and psychological services emanating from having to return to face to face classes, examinations and general physical interaction after the COVID-19 pandemic, 1,103 students graduated from the Faculty of Social Sciences in 2023, of which eight persons earned their Doctor of Philosophy (PhD) qualifications and five others received their Doctor of Business Administration (DBA) degrees. The Faculty also expanded its internship programme for both undergraduate and postgraduate students by engaging with 19 local companies.

Dr Acolla Lewis-Cameron  
**Dean**



In terms of Research, over 60 conference presentations, seminars, workshops and seminars to local, regional and international audiences on virtual and/or physical platforms were successfully conducted. Moreover, the Faculty generated over 100 publications in this Academic Year.

In addition, the spectrum of research output included “Bridging the Social and Economic aspects of the Entrepreneurial Imperative: A Call to Action”, in honour of International Women’s Day 2023, to collaborative discussions on “The health and economic burden associated with sugar-sweetened beverage consumption in Trinidad & Tobago” and then to “The Right to a Timely Trial as a Procedural Human Right” to name a few.

Notably, over the 2022/2023 Academic Year, one member of faculty progressed to the rank of professor and six members were promoted to the rank of Senior Lecturer. The Faculty also welcomed four new academic staff members. Simultaneously, several members received international awards for their commendable service, and others accepted appointments to serve on local statutory and international editorial boards respectively, to specify a couple meritorious categories. These undertakings reflect the vibrant commitment to service within the Faculty of Social Sciences.

Partnerships were forged between the FSS and the Ministry of Youth Development and National Service, where the Department of Behavioural Sciences completed the training of 100 young persons in key areas; namely youth development, civic engagement, leadership and team building for the National Youth Leadership Programme in September-October 2022. The FSS’ flagship Conference on the Economy (COTE) remained consistent in relevance and output in 2022/2023 by focusing on the theme “Climate Change and Disaster Management - Towards Sustainable Development for Small Island Developing States.”

Moreover, the FSS’ Business Development Unit (BDU) continued with its thrust of ‘Providing Personalised Learning Pathways’ that generated significant revenue for the Faculty in the 2022/2023 Academic Year. The BDU was able to expand the number of company-specific training and professional development offerings that resulted in the distribution of over five hundred and forty (540) certificates.

For the period under review, the Faculty of Social Sciences focused inwardly giving keen attention to process improvement, product enhancement and people development. The details of this report indicate how these strategic imperatives were rolled out for the Academic Year 2022/2023.

## Anniversaries, Achievements and Awards

### *Appointment of New Staff*

There are many frozen positions for the Department of Behavioural Sciences which to some extent, has impacted the teaching loads and general support for programmes. In 2022/2023, two persons were recruited into tenure track positions across Psychology (**Dr Katija Khan**) and Sociology (**Dr Tyehimba Salandy**) respectively along with **Dr Joni Lee Pow** and **Ms Mala Ramesar**.

### *Board Appointments*

Several staff members were appointed to various boards including **Dr Cheryl Ann Boodram** (Advisory Board-Female Children in Need of Supervision), **Dr Camille Huggins**-(Social Work Fellow for the International Legal Foundation and Shelter for Battered Women-2023-2025), **Dr Talia Esnard** (Break the Silence Project), **Dr Katija Khan** (Mediation Board of Trinidad & Tobago, 2022-2025) and **Professor Derek Chadee**, within the Mediation Board of Trinidad & Tobago.

# FACULTY OF SOCIAL SCIENCES

## *Committee Appointments*

Several members were also appointed on institutional and public committees including Dr Christine Descartes and **Dr Cheryl Ann Boodram** (Campus Ethics Committee, 2023-2026), **Dr Talia Esnard** (Deputy Chair - Campus Ethics Committee, 2023-2026), **Professor Derek Chadee** (Cabinet Appointment Committee on the Prevention and Reduction of Crime and Violence in Trinidad & Tobago) and **Dr Randy Seepersad** (Advisory Committee - Power of Pardon).

## *Editorial Boards*

Two staff members were appointed to regional and international editorial boards within their respective disciplines and across various roles: **Dr Shelene Gomes** (*Sociology*, British Sociological Association, 2023-2025) and **Dr Talia Esnard** in the role as Co-Editor (Caribbean Educators Research Journal), Associate Editor (Journal of Organizational Sociology, Gender, Work and Organizations) and Editorial Board (Sociological Research Online, British Sociological Association).

## *Paid Training*

The Department of Behavioural Sciences also successfully negotiated two major service contracts to deliver paid training in the areas of: (i) Leadership (designed for young persons with the Ministry of Youth and National Service National leadership training launched at UWI - Trinidad & Tobago Newsday); (ii) Family Mediation, Conflict Management and Restorative Justice, and (iii) Child Protection and Safeguarding (Office of the Prime Minister and Children's Authority of Trinidad & Tobago). On 18 July 2023, participants of the National Leadership Programme graduated from this programme.

One of our facilitators noted that “the programme gave the participants the opportunity to learn new perspectives on youth leadership; apply skills in their real-life work as leaders in youth groups and networks and share ideas with fellow youth leaders in the country”.

The Department of Behavioural Sciences also completed five training workshops for the Judiciary of the Turks and Caicos. This training represented the first of its kind and was featured in the Turks and Caicos Weekly News under the headline: “UWI trains 20 to become first batch of mediators in TCI!”

The training provided for the Child Protection and Safeguarding also represented a story of knowledge converted into a tangible commodity. This initiative ran from May 2023 to the early part of August 2023.

Collectively, the Department of Behavioural Sciences received just over TT\$800,000 from these training opportunities, with the bulk of the revenue being derived from the training with the Judiciary of the Turks and Caicos.

## *Promotion to Professorship*

From the Department of Economics, **Dr Roger Hosein**, Senior Lecturer, Department of Economics was promoted to Professor with effect from October 5, 2022.

## *Achievements & Awards*

In 2022, Professor of Practice, **Dr Sterling Frost**, Chair of The UWI Faculty of Social Sciences' Advisory Board received the Order of the Republic of Trinidad & Tobago (O.R.T.T.)

**Dr Wendell Wallace**, from the Department of Behavioural Sciences, was selected as a 2023 Weinstein JAMS International Fellow and as an awardee from the Association of Caribbean Commissioners of Police for his outstanding Contribution to Caribbean Policing.

From the Department of Behavioural Sciences, it was highlighted that five doctoral candidates successfully defended and graduated from their respective programmes including **Dr Seon Raymond** (PhD, Sociology), **Dr Patricia Jaggsar** (PhD, Sociology), **Dr Vasudev Ramkissoon** (PhD, Sociology) and **Dr Ayinka Nurse-Carrington** (PhD, Criminology and Criminal Justice). **Ms Andrea Daniel** also graduated with a Master of Philosophy degree in Sociology.

From the Department of Economics, **Dr Daren Conrad** and his research team were shortlisted and received commendation for the CIHT & Kier Transport Planning Award for the project *"The Development of a Travel Demand Model for Trinidad"*, from the prestigious Chartered Institution of Highways and Transportation (CIHT) Annual Awards in the United Kingdom.

**Dr Paul Balwant**, from the Department of Management Studies, received two awards from the Beedie School of Business, Simon Fraser University, Canada for excellence in the GLOBE 2020 research project:

- the "Go Getter Award" for excellence in data turnaround speed and
- the "Maestro of Many – Individual Award" for building one of the top ten largest individual datasets (of 476 active co-country investigators).

**Dr Balwant** also received a Certificate of Achievement as the author of the "Top Downloaded Article" from Wiley, USA for his publication in the Journal of Leadership Studies entitled, "Is there a bright side to destructive leadership? How Gordon Ramsay leads change in nightmare kitchens." It was one of the most downloaded papers during its first 12 months of publication. Additionally, **Mr Adon Wilson** was the 3<sup>rd</sup> Place Winner in the 2023 CAPSIM Spring Challenge of The International Business Simulation Competition.

From the Department of Political Science, **Dr Charlene M. L. Roach** received the International Service Award from the Section for Women in Public Administration Annual Awards 2023 and the Marcia P. "Marcy" Crowley Service Award from The American Society for Public Administration.

## Academic Improvements

The Department of Behavioural Sciences provided professional development of its staff through various training events held between February and May 2023. These sessions included CPR/ First Aid Training both online and face-to-face, networking, exercise sessions, and training to handle emergency situations. Workshops on accounting and communications were also held.

The Department of Management Studies collaborated with 19 companies to facilitate internship opportunities for undergraduate and postgraduate students. Meanwhile, six faculty members served as mentors in the FashionTT Value Chain Investment (Mentorship) programme. This mentorship programme covered a range of topics including business plan assessment, product assessment, market research and development, customer relations, production and supply chain management, costing, financial management, export strategies, and website and e-commerce development.

# FACULTY OF SOCIAL SCIENCES

## Administrative Improvements

The Faculty's Business Development Unit supported a personal and professional development staff training initiative titled ADVANCE created by the Faculty's newly appointed Administrative Officer, **Mrs Joanna Olatunji**. This programme was geared mainly toward Administrative, Technical Support (ATS) affording them the opportunity to upskill, retool and engage in wellness type activities. A total of 41 persons participated in the programme's seven modules on Access to Computerized Tools (ACT), Drive – The Power in You, Visioning for your Life, Accounting I, Networking, Communication at Work, and Exercise.

Meanwhile, the Talk2 initiative was launched from the Faculty's Student Support Services Unit housed at the Dean's Office. Talk2 allows students to engage with the Faculty through a live online chatbot feature with a tracking facility used to monitor the number of hits. This has contributed to better decision making regarding the Faculty's website design and content. Student feedback generated has also been positive since students can now access useful and accurate information promptly and remotely.

Furthermore, in an effort to improve the timeliness of the submission of marks, the Dean encouraged the circulation of reminders at designated intervals that prompted faculty to upload students' marks into BANNER before established deadlines. These simple prompts by email resulted in the Faculty of Social Sciences' being the only Faculty to upload all marks before the stated deadlines for Semester II, 2022/2023. As such, this procedure of sending reminders to faculty was adopted to the process for the timely upload of marks, having been successfully piloted with remarkable results.

## Research

The staff at the Department of Behavioural Sciences consistently maintained its significant research and publication output trending upward, and covering research in the areas of policing, social justice, diversity, inclusion, death penalty, domestic violence, delinquency and community engagement. The staff also represented the Faculty well in various annual meets across the respective disciplines in this Department, locally, regionally and internationally.

The staff in Psychology also held a student conference in April 2023 with substantive representation from undergraduate and post graduate students in the discipline.

From the Department of Management Studies, **Professor Rajendra Ramlogan** published two books: "Commercial Law Cases and Materials From The Commonwealth Caribbean" (Publisher – Bookbaby) and "Protection of the Environment and the Role of the United Nations: A Tale of Bureaucratic Wastefulness" (Notion Press).

**Dr Riann Singh** and **Dr Shalini Ramdeo** also authored "Contemporary Perspectives in Human Resource Management and Organizational Behaviour" (Publisher – Palgrave MacMillan).

### *New Research*

**Dr Christine Descartes** from the Department of Behavioural Sciences was the Principal Investigator on "The Impact of the COVID-19 Pandemic on the Mental Health of Children and Adolescents in Trinidad & Tobago" CRP3. NOV21.03. The Campus Research and Publication Fund, the UWI, St. Augustine. 08 February 2022 – 07 February 2023.



Another faculty member, **Dr Katija Khan**, serves as a Commissioner on the PAHO High Level Commission on Mental Health and COVID-19, and undertook the Consultation in September 2022 between the Commission and people with lived experiences.

In addition, a seminar on *Music Performance Anxiety and You* was held in September 2022 in collaboration with the **Mr Jessel Murray**, DCFA, and **Dr Daniel Ramjattan**, Doctor of Musical Arts, University of Toronto and Instructor at Wilfrid Laurier University, Canada. This seminar lauded the multidisciplinary collaboration with Psychology and music.

The Social Work Unit also facilitated a request for training in case management delivered by all members of the Unit to the Children's Life Fund Authority, Mount Hope in January 2023. Topics included 'Ethics and Values in the Social Services', 'Fundamentals of Case Management', 'Addressing Equity in the Case Management Process', 'Dealing with Grief and Bereavement and Self-Care'.

Moreover, in Semester I, 2022/2023, the Business Development Unit (BDU) successfully completed in August 2022, one professional development seminar in Project Management with an enrolment of 22 participants. The BDU partnered with First Citizens (FCB) to provide customised company-specific training in sales for three cohorts of approximately 100 each of its sales staff. Two cohorts of almost 50 members each were trained in Professional Business Writing in August and September 2022. The BDU began a training programme in August 2022 for the Office of the Chief Personnel Officer (CPO) consisting of a series of workshops spanning Evolutionary Leadership, Data Analytics, Supervisory Skills, Business Communication and Media Use 101 for the Workplace.

The Trade and Economic Development Unit (TEDU) hosted its online series, National Conversations in September 2022 with Economist, Professor Roger Hosein taking "A Hard Look at the T&T Macro- Economy in 2022 and Beyond."

The Demas-Rampersad Seminar Series also held a Post Budget Forum, in September 2022 with a panel of speakers that included **Dr Marlene Attzs** and **Dr Daren Conrad** – Lecturers, Department of Economics, **Dr Dave Seerattan** – Lecturer, Institute of International Relations, and **Dr Vaalmikki Arjoon** – Lecturer, Department of Management Studies.

The Conference On The Economy (COTE) hosted its Virtual competitions: Debate Knock Offs for Secondary and Tertiary Schools and its Virtual Youth Armchair Discussion in October 2022.

Meanwhile, **Dr Henry Bailey** from the Department of Economics was the Principal Investigator on the ongoing research on an 'EQ-5D-3L Valuation Study and Population Norms Study for Bermuda, during December 2022 to January 2023 funded by the Bermuda Health Council Chronic Disease Innovation programme. The goal of the study was to produce an EQ-5D-3L Value set, as well as a set of EQ-5D Population Norms to allow for linic-economic analysis (including Cost Utility Analysis) to be conducted using preferences of the Bermuda population.

The Psychology Unit hosted its PSI CHI 10<sup>th</sup> Anniversary Student Conference in collaboration with Psi Chi, The International Honour Society St. Augustine Chapter in April 2023, with over 100 participants from the UWI, UTT, COSTAATT, USC students and the media. There were three sessions running concurrently, which facilitated 14 presentations from The UWI staff, graduate,

# FACULTY OF SOCIAL SCIENCES

undergraduate and past students. The conference provided both an academic and social forum especially for our Psychology students to present at an academic forum, meet as a group and interact with faculty. Refreshments for the conference was sponsored by Prestige Holding Limited.

## *Outreach and Collaborative Initiatives*

In December 2022, six academic staff from the Department of Political Science participated in a first-time charity drive, which was facilitated by the former Head of Department, Dr Charlene M.L. Roach. Together, the staff would have donated TT\$4,700.00 in cash and six Christmas hampers to the La Romaine Secondary School, which provided much relief to several students and their families who are at the lowest end of the socio-economic ladder.

The Department of Behavioural Sciences has been actively engaging with the public and sharing their expertise in the following areas:

- Co-parenting workshops to the Police Youth Club,
- TV Engagements (**Dr Cheryl Ann Boodram**),
- Mediation Skills Training for Prison Service Officers (**Dr Wallace and Ann Diaz**),
- Development of an Inter-Ministerial Approach to Family Violence (Ministry of Social Development and **Dr Camille Huggins**),
- Psychosocial support training – St. Jude’s Home for Girls (**Dr Camille Huggins**),
- Suicide Prevention (Ministry of Health and **Dr Katija Khan**) and
- Self-Esteem and Identity (**Dr Katija Khan** and Office of the President).

There were also two activities which engaged the wider public. First was the sociology essay competition, which drew 34 submissions from schools along the East West Corridor. Second was the Social Work Day, where staff recognised practice teachers and displayed some of the significant work of students.

The Department of Behavioural Sciences also hosted a public lecture entitled ‘The landscape of cyberbullying and online harassment in the UK and the challenges of related digital investigations and awareness campaigns. This lecture was presented by **Dr Vasileios Karagiannopoulos**, Reader in Cybercrime and Cybersecurity School of Criminology and Criminal Justice University of Portsmouth in March 2023 at the School of Education Auditorium, UWI St. Augustine Campus. Dr Karagiannopoulos served as a visiting scholar during the week of 19-25 March 2023. During this time, he met with staff on the possibility of staff mobility and research collaboration.

The Department also conducted the following activities in March 2023 for World Social Work Month:

- Social Work Practice Teachers’ Seminar and Appreciation Ceremony held on Friday 24<sup>th</sup> March 2023.
- Level I Students’ Social Action Project entitled “Be Well”.
- Media interview on the TTT NOW programme on the Social Work profession and World Social Work Month.

The Department of Management Studies hosted a series of online public lectures called the UWI/FIFA/CIES Sports Management Online Lectures as part of its continued stakeholder engagement and sport management programme recruitment drive:

- **January 2023** - Leveraging Sports Betting for the Development of Sports - Mr Pedro Trengrouse, Senior Partner/Lawyer at Trengrouse & Gonçalves Advogados, Rio de Janeiro, Brazil.

- **May 2023** - Benchmark, Analysis And Financial Trends Of European Football Clubs - Mr Michel Lukasiewicz, Strategy and Investments Manager – beIN Media Group.
- **September 2023** - Sport Development and Designing Sport Development Programmes - Mr Nick Lau, Co-Founder and President of Sport Impact Group and Trinidad & Tobago National Cross-Country Skier.

The Entrepreneurship Unit engaged in impactful outreach to secondary schools through its Entrepreneurship Outreach programme to Schools. The four schools were Queen's Royal College, Diego Martin Secondary School, Marabella Secondary School and Mayaro Secondary School. The Unit also offered social outreach and support by providing access to information on setting up a business as well as mentorship advice to young entrepreneurs across the nation. One instance of note was the advice and guidance provided to the Red Gold Moruga Hill Rice Cooperative. For the Campus Community, the Entrepreneurship Unit conducted training sessions with staff at the School of Veterinary Science, the Cocoa Research Centre, and other Faculties. Students from across the Campus embraced the opportunity to showcase their products and services at a Student's Entrepreneurship Expo held in March 2023.

The University through the Entrepreneurship Unit also collaborated with the National Entrepreneurship Development Company Limited (NEDCO) to host the UWI-NEDCO Innovation Boot Camp and Pitch Competition in November 2023.

In April 2023, the Department of Management Studies collaborated with NIHERST, and the Entrepreneurship Unit served as key facilitator to NIHERST's four-part Innovation and Entrepreneurship Ecosystem Webinar Series.

From the Department of Economics, Dr Henry Bailey coordinated the First Latin America Academy Meeting of the EuroQol Research Group on 09 and 10 November 2022 on the following topics:

- *Regional Inequality Studies and DCE with duration.* H Bailey, MF Janssen, B Roudijk.
- *Investigating Bio-Psycho-Social Factors and Quality of Life and chronic illness patients in Trinidad & Tobago.* M. Bahall H. Bailey
- *Cost Utility Analysis for Renal Replacement Therapy in Trinidad & Tobago: PD vs HD.* H Bailey S. Sanchez, S Teelucksingh, R Ali, G Legall.
- *Using EQ-5D-5L and MSQOL-54 to investigate mental and emotional wellbeing among Multiple Sclerosis patients in Trinidad & Tobago.* H Bailey A Panday S Lucky Samaroo A Maharaj

In November 2022 the Department of Economics hosted its annual Conference on the Economy (COTE) virtually under the theme *Climate Change and Disaster Management – Towards Sustainable Development for Small Island Developing States.* The conference hosted over 300 participants at its two-day conference and sought to expand the collaboration between the Department of Economics and industry stakeholders. COTE Youth Events conducted a number of virtual outreach activities over the period in October 2022, namely:

- Climate Change and Disaster Management: Addressing Climate Challenges as a Caribbean Community;
- Debate Knock-Offs and Debate Finals in which, a number of secondary and tertiary schools participated namely Northgate College, Upper-Level Educational Institute, Holey Faith Convent Couva, The International School of Port of Spain, Presentation College Chaguanas, St Joseph Convent-Castries, UWI Association of Debating and Public

# FACULTY OF SOCIAL SCIENCES

Speaking, UWI School of Business and Applied Studies (ROYTEC) and the University of the Southern Caribbean (USC).

- Graduate Poster Competition to award prizes for the Best Socially Responsible Research and the Best Applied Research. Graduate students participated from the Faculty of Social Sciences and the Faculty of Humanities and Education.

The Demas-Rampersad Seminar Series included a number of virtual and in person discussions:

- The Annual Post Budget Forum (virtual) in September 2022. Panellist included **Dr Regan Deonanan, Dr Marlene Attzs, Dr Daren Conrad, Dr Vaalmikki Arjoon**, Lecturer-Department of Management Studies and **Dr Dave Seerattan**, Lecturer – Institute International Relations.
- **Dr David Rosenblatt**, Regional Economic Adviser, Caribbean Country Department at the Inter-American Development Bank (IDB) in Washington, visited the Department of Economics and gave a guest lecture (in person) on *“The roles, functions and perspectives of the IDB, and the importance of research”* in October 2022. The Department of Economics’ Outreach Committee conducted a number of outreach activities over the period:
  - Collaboration between *UWI ROYTEC* to host the annual a Youth Forum in May 2023 on the Economics of Crime. Presenters included, **Mr Zakariya Ali** Associate Degree Candidate Management Studies ROYTEC, **Dr Randy Seepersad**, Senior Lecturer, Department of Behavioural Sciences and **Dr David Muhammed**, Subject Head, Education and Behavioural Sciences, ROYTEC.

- Collaboration with Queens Royal College in hosting their annual Youth Forum in February 2023 discussing issues on Managing Inflation & Economic Growth in the post pandemic period – The way forward for the Region. This in-person forum included students from QRC and was moderated by **Dr Daren Conrad** and **Dr Soleil Senghor**.

The Trade and Economic Development Unit (TEDU) conducted a number of virtual seminars entitled National Conversations over the period:

- August 2022 - *Reflecting on 60 Years of Independence*  
Panelist included **Ms Sara Jade Goveia, Dr Wendy Isaac, Dr Anjanie Sharma, Professor Jerome De Lisle, Mr Garvin Heera, Mr Kevin Ramnarine, Professor Judith Gobin** and **Dr Rebecca Gookool-Bosland**
- September 2022 - *A Hard look at the T&T Macro-economy in 2022 and Beyond*  
Panelist included **Professor Roger Hosein, Mrs Karen Nunez-Tesheira, Mr Kevin Ramnarine** and **Dr Bhoendradatt Tewarie**.
- October 2022 - *The 2023 Budget: A look after the dust has settled*  
Panelist included **Professor Roger Hosein, Mr Kevin Ramnarine** and **Dr Bhoendradatt Tewarie**
- November 2022 - *Factors Influencing the Murder Level in a Country*.  
Panelist included **Mr Charles Suilen** and **Mr Wendell Williams**.
- January 2023 - *An Economic Outlook for 2023*.  
Panelist included **Dr Terrence Farrell** and **Mr Kevin Ramnarine**.

- March 2023 - *A National Conversation on Crime, Productivity and Economic Growth*.  
Panelist included **Professor Roger Hosein, Mr Vivek Charran, Dr Randy Seepersad, The Honourable Fitzgerald Hinds**, Minister of National Security and **Mrs Erla Harewood-Christopher**, Commissioner of Police, Trinidad & Tobago Police Service, in collaboration with the Confederation of Regional Business Chambers.

### *New MOUs & Agreements*

In March 2023, a Memorandum of Understanding was signed between The University of The West Indies (St Augustine Campus) and The Women In Aviation International for the award of scholarships valued at US\$20,000.00 for female students in the MSc in Aviation Management programme.

The Entrepreneurship Unit established a service agreement with E-IDCOTT called the E-IDCOTT (Tobago) Business Accelerator to support twenty start-ups. In May 2023, the EU had delivered a three day training series to the Tobago cohort which, according to the feedback, has been highly successful for E-IDCOTT and insightful to the participating entrepreneurs.

The UWI (through The UWI Ventures Ltd. and The UWI Entrepreneurship Unit) initiated and established a strategic partnership with the UTC (via MOU) called the UWL-UTC URPRENEURPLUS ACCELERATOR. The goal is a co-branded business accelerator to support business start-ups and innovative ideas from the UWI as well as from the national environment.

## The FSS Business Development Unit (BDU)

The BDU remains the hub of revenue generation for the Faculty of Social Sciences (FSS), providing educational and professional services to the business community, civil society, the public service, and students whether in person or virtually. The table below provides a succinct perspective of its activity and impact for the period under review.

### **To increase the number of company-specific training initiatives**

- Company-specific training provided to the Personnel Department at the Office of the Chief Personnel Officer (August – November 2022).
  - 182 certificates awarded.
- Company-specific training for First Citizens Bank (July – November 2022)
  - 147 certificates awarded.
- Company-specific sensitization session for the Personnel Department at the Office of the Chief Personnel Officer (February 2023)
  - 25 persons sensitised.
- Company-specific training for Public Service Academy (May 2023)
  - 20 certificates awarded.
- Company-specific training for UWI HR Division (May 2023 and June 2023)
  - 25 certificates awarded.

# FACULTY OF SOCIAL SCIENCES

## **To increase the number of consultancy projects with industry stakeholders**

- FashionTT mentorship ongoing (July 2022 - July 2023)
  - 63 designers completed programme
- NCRHA Employee Experience Survey finalisation discussions ongoing
  - Possibly to begin in academic year 2023/2024

## **To increase our internal partnerships within the UWI**

- Partnered with FSS to deliver the ADVANCE People Development programme (October 2022 – May 2023)
  - 41 members of staff participated in this initiative at varying levels
- To pilot a cross disciplinary approach to microcredentialing at The UWI under the MAP programme (Microcredentials Accelerator Path programme)
  - First cohort scheduled for Academic Year 2023/2024

## **To continuously offer professional development opportunities month to month**

- Project Management Seminar (August 2022)
  - 22 certificates awarded.
- Training Calendar developed for the offerings for 2023
- Emotional Intelligence/Teamwork Seminar (April 2023)
  - 10 certificates awarded.
- Predictive Analytics Seminar (April/May 2023)
  - 9 certificates awarded.

## **To build awareness and relationships with stakeholders**

- Dissemination of BDU Achievement Report to database
- Email Marketing Campaign
- Distribution of Training Calendar
- Social Media Posts
  - 9 Requests for proposals from February 2023 – April 2023

## Strategic Review

### *Vision and Key Initiatives for 2023/2024*

For the period 2023/2024, the Faculty of Social Sciences endeavours to expand on its existing vision “To be socially engaged and solutions oriented” further by being more outward-looking while ensuring its key initiatives remain aligned with the strategic goals of the Campus and The University.

The Faculty of Social Sciences (FSS) has outlined several key initiatives as part of its strategic plan. These initiatives are designed to enhance various aspects of the Faculty’s operations and offerings:

1. Postgraduate Laddering Initiative: This initiative aims to provide a structured pathway for postgraduate students, enhancing their academic and professional development opportunities.
2. Engagement of the FSS Advisory Board for Industry Mentoring. By deepening the engagement with the Advisory Board, FSS plans to strengthen industry connections and provide more robust mentoring opportunities for students.
3. Staff Professional and Personal Development programmes: These programmes are intended to support the continuous development of the Faculty’s staff, both professionally and personally, thereby enhancing the overall quality of education and administration.
4. New & Revised Senate-Approved programmes: FSS is working on developing new academic programmes and revising existing ones to meet current educational standards and industry needs.

5. Partnerships for Research Funding: Establishing partnerships with private and public sector agencies will help secure funding for research, facilitating more comprehensive and impactful studies.
6. Continuation of the Digitalization Process Across the Faculty This ongoing process aims to modernise and streamline operations, teaching, and learning within the Faculty using digital technologies.
7. In-Company Customized Training programmes: FSS plans to offer tailored training programmes to companies, aligning academic expertise with industry-specific needs.
8. Launch of FSS Lifelong Professional Society (FLPS): The FLPS initiative is designed to provide ongoing professional development and networking opportunities for alumni and professionals associated with the Faculty.
9. Cross-Disciplinary Postgraduate Certificates\*\*: The development of cross-disciplinary certificates aims to offer more diverse and integrative learning opportunities for postgraduate students.
10. Rental of Faculty Spaces: This initiative involves making faculty spaces available for rent, potentially generating revenue and increasing the Faculty's exposure.
11. Expansion of Work-Integrated Learning: Expanding these opportunities will provide students with more practical, hands-on experiences in their field of study, bridging the gap between academic learning and professional practice.
12. Integrated Marketing Campaign: A comprehensive marketing campaign is planned to enhance the visibility and attractiveness of FSS programmes and initiatives.

These initiatives collectively aim to strengthen the FSS in terms of academic excellence, industry alignment, technological advancement, and student and staff development.

## Access

### *Department of Economics*

The Department of Economics made significant strides in course development and faculty recruitment. They successfully proposed and conducted market research for a new course titled "Behavioural Economics" along with establishing a minor in Urban Economics, receiving approval from the Faculty Board. However, delays in obtaining CETL approval and constant revisions of course templates posed challenges, prompting discussions on streamlining the approval process.

Efforts were also made to strengthen the Department's resources, including the hiring of a Teaching Assistant proficient in STATA, although the prohibitive software cost remained a hurdle. Recruitment for a lecturer in Monetary/Financial Economics began, aiming to enhance the BSc Economics programme. However, lengthy wait times for feedback from HR slowed down the process, prompting internal discussions on optimizing communication channels.

The department actively engaged students through events like the annual Conference on the Economy and COTE Youth Events, focusing on practical applications and student participation. Collaborations with corporate partners facilitated internships for undergraduate and graduate students, providing valuable real-world experience. Plans were also underway to expand internship opportunities through partnerships with additional organisations in the upcoming academic year.

# FACULTY OF SOCIAL SCIENCES

## *Department of Management Studies*

In the realm of Management Studies, the Department focused on stakeholder engagement and programme recruitment through initiatives like the UWI/FIFA/CIES Open Public Lecture Series. Additionally, faculty members participated as mentors in various programmes, including the FashionTT VCIP Mentorship programme, where they provided guidance on diverse topics ranging from business plan assessment to e-commerce development.

Efforts to enhance curriculum included the development and approval of new courses such as Fraud Examination at the undergraduate level and Accounting for Business Decisions at the postgraduate level. The department actively sought internship opportunities for students, engaging with 19 companies to provide valuable industry experience. Plans were also underway to diversify internship offerings by exploring partnerships with organisations in emerging sectors such as sustainable development and technology.

Faculty members also engaged in research endeavors, with several projects focusing on emerging trends in management and business practices. Collaborative efforts with industry partners and other academic institutions were initiated to further research agendas and promote knowledge exchange. Additionally, the Department explored opportunities for interdisciplinary collaboration to address complex societal challenges through innovative solutions.

## *Department of Political Science*

The Department of Political Science concentrated on academic offerings aimed at addressing real-world challenges. Approval was granted for the MAP Certificate programme - Advanced Public Service HR Dynamics, tailored to meet the needs of public sector professionals. The initiative attracted enrolment from twenty students, prompting discussions on expanding the programme to accommodate a larger cohort in subsequent semesters.

In addition to academic programmes, the Department focused on student satisfaction initiatives, organising workshops to improve presentation skills in collaboration with Toastmasters under the FSS Subcommittee. Plans were also underway to implement additional support mechanisms, such as peer mentoring programmes and academic advising services, to enhance the overall student experience and promote academic success.

Faculty members continued to engage in scholarly activities, with research projects exploring various aspects of public policy, governance, and political behavior. Efforts were made to disseminate research findings through publications in reputable journals and presentations at academic conferences. Collaborative research endeavors with international partners were also initiated to broaden the Department's research scope and foster global perspectives.



### *Department of Behavioural Sciences*

The Department of Behavioural Sciences organised various academic and extracurricular activities aimed at enriching student experiences. The Sociology unit conducted an essay competition on social stratification, although scheduling conflicts forced the cancellation of the prize-giving ceremony. Efforts were made to reschedule the event and recognise student achievements through alternative means, such as virtual award ceremonies and publication of winning entries in departmental newsletters.

Workshops were held for postgraduate students covering topics such as SPSS, criminological research methods, and qualitative data analysis, contributing to the expansion of students' knowledge and skills. Despite initial challenges with online engagement, efforts were made to transition to face-to-face interactions, resulting in increased participation and interaction levels. Plans were also underway to leverage technology to enhance workshop delivery and promote active learning experiences.

Faculty members continued to engage in scholarly pursuits, with research projects exploring diverse topics within the realm of behavioural sciences. Collaborative research initiatives with external partners and interdisciplinary research teams were initiated to address complex societal issues and generate innovative solutions. Additionally, efforts were made to integrate research findings into teaching practices, providing students with opportunities to engage with cutting-edge research and apply theoretical concepts to real-world scenarios.

### **Alignment**

#### *The Department of Behavioral Sciences*

Several members of staff at the Department actively served as advisors on local and/or regional boards. Notably, Dr Boodram advised with the Ministry of Social Development while Professor Chadee contributed to the Committee aimed at developing a behavioral approach to crime. The department was engaged in five ongoing research projects, some of which delved into the intricacies of intimate partner violence and the impact of COVID-19 on students' anxiety and mental health. These projects often formed collaborations with Medical Sciences researchers and other faculty within the Department.

Furthermore, the Department facilitated numerous opportunities for student engagement with key stakeholders. Guest lectures and panel discussions featured esteemed individuals such as **Dr Timothy Affonso, Mr Burton Hill, Mr Cedric Neptune, Dr Dylan Kerrigan,** and **Dr Vasileios Karagianopoulos** from the University of Portsmouth. Dr Karagianopoulos's lecture on cyberbullying and online harassment in the UK provided valuable insights, highlighting the challenges of related digital investigations and awareness campaigns.

The Department of Behavioral Sciences also actively participated in social work initiatives, hosting an annual social work month that included an award ceremony to recognise external partners supporting students in the programme. This event received positive feedback from stakeholders.

# FACULTY OF SOCIAL SCIENCES

The department's expertise was sought after beyond academia. Dr Wallace delivered a presentation on rehabilitation in the nation's prisons at Cipriani College of Labour and Co-operative Studies, while Dr Esnard was invited to speak at the Tunapuna Chamber of Commerce and Industry in honour of International Women's Day.

## *Department of Political Science*

The Department of Political Science collaborated with the Inter-American Development Bank on initiatives stemming from a Training Needs Assessment Project, which concluded in July/August 2022. This collaboration aimed to secure grants for designing or implementing micro-credential laddering initiatives, contributing to the ongoing development of the field.

## **Agility**

### *Department of Behavioural Sciences*

The Department of Behavioural Sciences facilitated several mediation workshops, such as the Family Mediation Workshop conducted for the Judiciary in Turks and Caicos and Mediation Training sessions tailored for law enforcement personnel in that territory. Additionally, the Department provided crucial Restorative Justice and Conflict Management Training to officers within the Trinidad & Tobago Prison Service. Citing some internal challenges, the Department notes that efforts were underway to address internal accounting discrepancies and establish more robust financial tracking mechanisms for future endeavors.

A significant milestone was achieved with the introduction of Child Protection and Safeguarding training for residential care workers in Trinidad & Tobago, benefiting 73 individuals. This despite logistical hurdles in finding a suitable and cost-effective space to conduct face-to-face training sessions, necessitating innovative solutions to accommodate participants.

Further, the Department embarked on a comprehensive training initiative targeting young individuals, focusing on key areas such as youth development, civic engagement, leadership, and team building. This initiative, conducted in partnership with the Ministry of Youth Development and National Service, saw the successful training of 100 participants. Challenges arose due to delayed registration and the scheduling of intensive three-hour classes during evening hours, highlighting the need for improved communication and scheduling strategies in future phases of the programme.

The department actively participated in community engagement activities, including a Carnival mask-making competition, where academic staff played a crucial role in the judging process. Moreover, efforts towards digital transformation continued with the systematic scanning and digitization of departmental files, aiming to streamline administrative processes and enhance organisational efficiency.

### *Department of Economics*

The Department of Economics was successful in securing sponsorship for the prestigious Energy Economics Prize, marking a notable achievement in fostering industry collaboration and recognition for academic excellence. Concurrently, efforts were initiated towards the refurbishment of departmental offices, with revised drawings completed and in-house estimates sourced. However, prolonged wait times for feedback and deliverables were experienced, attributed to competing priorities and resource constraints.

### *Department of Political Science*

The Department of Political Science transitioned towards online and blended learning modalities for select courses. This shift in delivery methods aimed to enhance accessibility and flexibility for students while optimizing learning outcomes. Additionally, the Department facilitated comprehensive cross-training initiatives for staff, fostering a culture of continuous learning and skill development across various levels within the organisation.

The introduction of an online advising system is an important step towards improving student support services, enabling seamless communication and coordination between academic and administrative staff. This system played a pivotal role in improving the quality and range of advising efforts, ensuring personalised guidance and support for students navigating their academic journey.

Furthermore, the Department embraced a collaborative leadership approach, leveraging the expertise and diverse perspectives of team members to drive strategic initiatives and foster a culture of innovation and excellence. Academic staff members were provided with opportunities for professional growth through rotations in leadership roles, contributing to the cultivation of a dynamic and empowered workforce.

### *Department of Management Studies*

The Entrepreneurship Unit within the Department of Management Studies continued its multifaceted operations, extending entrepreneurship planning services to various faculties within the UWI ecosystem. Through targeted training and mentorship programmes, staff members actively engaged with stakeholders across diverse disciplines, fostering a culture of innovation and entrepreneurial mindset.

The introduction of a UWI Entrepreneurship and Innovation expo served as a platform for showcasing entrepreneurial endeavors and fostering collaboration among stakeholders. The department played a central role in shaping the UWI Entrepreneurship & Innovation Ecosystem, providing valuable input into strategic initiatives such as UWI Ventures and STACIE.

# FACULTY OF SOCIAL SCIENCES

## Distinguished Visitors

### **Ms Alison Woods**

Acting Assistant Superintendent of Police,  
Trinidad & Tobago Police Service, Trinidad & Tobago

### **Mr Burton Hill**

Welfare Officer,  
Trinidad & Tobago Prison Service, Trinidad & Tobago

### **Mr Cedric Neptune**

Senior Attorney and Inspector of Prisons,  
Trinidad & Tobago Prison Service, Trinidad & Tobago

### **Acting Corporal Dana Marie Marshall**

Professional Standards Bureau,  
Trinidad & Tobago Police Service, Trinidad & Tobago

### **Dr Dylan Kerrigan**

Peace and Development Officer – Caribbean,  
United Nations, Trinidad & Tobago

### **Mrs Erla Harewood-Christopher**

Commissioner of Police,  
Trinidad & Tobago Police Service

### **The Honourable Mr Fitzgerald Hinds**

Minister of National Security,  
Government of the Republic of Trinidad & Tobago

### **Ms Gabrielle Dempster**

Commercial Advisor,  
Shell (Trinidad & Tobago) Limited

### **Dr Geeta Ramsoobag**

Condition Monitoring Engineer,  
KVR Energy Limited, Trinidad & Tobago

### **Mr Gerard Rodriguez**

Internal Audit Manager,  
Trinidad & Tobago Electricity Commission

### **Ms Janelle Spencer**

Energy Economist,  
Central Bank of Trinidad & Tobago

### **Mr Justin DeFreitas**

Manager, Industrial Relations & Compensation Administration,  
North West Regional Health Authority, Trinidad & Tobago

### **Mr Kareem Marcelle**

Lawyer and Community Activist, Trinidad & Tobago

### **Superintendent Ricardo Montrichard**

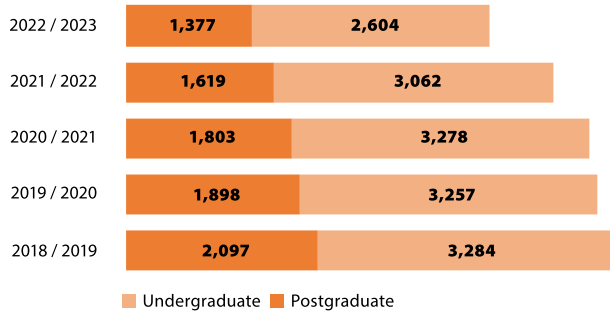
Professional Standards Bureau,  
Trinidad & Tobago Police Service, Trinidad & Tobago

### **Mr Richard Peter Young, FCCA, CA**

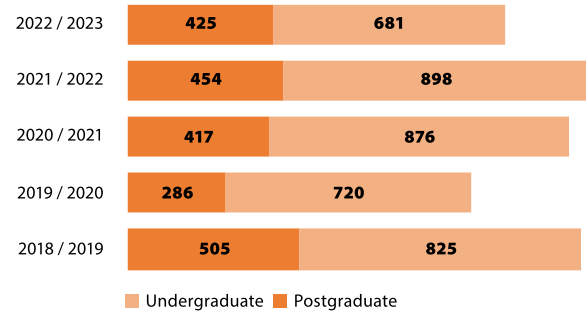
Non-Executive Director,  
Massy Group, Trinidad & Tobago

## Enrolment & Graduation Trends

### Enrolment Trends – Social Sciences



### Graduation Trends – Social Sciences



# FACULTY OF SPORT

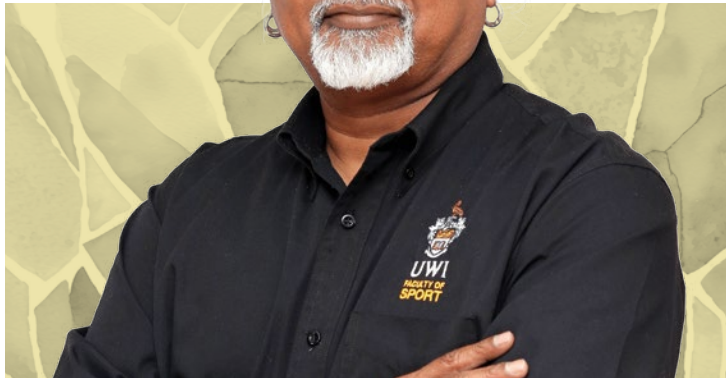
## Dean's Summary

The academic year 2022/2023 saw the return to face-to-face teaching at the St. Augustine Campus and the continuation of cross campus classes. Additionally, students welcomed the use of the Academy's sport facilities for recreational activities as well as competitive sport on and off campus. The St. Augustine Women's Cricket Club played in the 2023 Trinidad & Tobago Women's Cricket Association Premiership after being promoted from the Championship Division in 2022. With the COVID-19 pandemic under control, external clients rented the sporting facilities for sport days and competitive activities. The UWI Men's basketball team placed 2nd in an Under 23 tournament it hosted in June 2023. Caribbean Premier League (CPL) training sessions were held in September 2022 at the Sir Frank Worrell Cricket Ground.

Dr Akshai  
Mansingh  
Dean



Dr Anand Rampersad  
Head, St Augustine  
Academy of Sport  
Faculty of Sport



## St. Augustine Academy

### *Head's Summary*

The year saw the return to face-to-face classes and the resumption of sporting activities at the Academy. Increasing the number of students in the academic programme was a major priority through school and community outreach programmes. Additionally, discussions recommenced with GATE representatives to have the two BSc programme become GATE funded. The continued non-functioning of the AC unit at SPEC hampered student sporting as well as income generating activities. The swimming pool was recommissioned in January 2023 and free access was made available to the Campus community. Most of the gym equipment require replacing and would have to be completed in the 2023/2024 academic year. The tennis courts would also have to be refurbished in the coming academic year to facilitate students and generate income through tournaments and training programmes. Caribbean Premier League (CPL) training sessions were held in September 2022 at the Sir Frank Worrell Cricket Ground.

### *Teaching, Learning and Student Development*

The Faculty continued cross campus teaching between the Mona and St. Augustine campuses with the use of the Cross Campus Moodle platform. The St. Augustine students use the classroom space at SPEC for classes as well as for general studying and meetings.

### *Graduation*

At the graduation ceremonies held in October 2023, the Campus celebrated the first five persons to graduate with first degrees from the St. Augustine Academy of Sport, part of the cross-campus Faculty of Sport.

### *Outreach Activities*

**Dr Anand Rampersad**, was returned to the National Steering Committee for the Elimination and Prevention of Child Labour in Trinidad & Tobago for the period 2022-25. He was involved in outreach programmes with Trinidad & Tobago Boxing Association and the Pointe Pierre Golf Association. In addition to editing the Faculty's Sport Matters column in the Trinidad Guardian from August 2022, he continued with his weekly sport column, SPORTIFICATION in the Trinidad Guardian.

### *Staff Development & Human Resource Matters*

**Dr Anand Rampersad** assumed the position of Head of the St. Augustine Academy in August 2022. Twelve positions continue to be vacant at the Academy. Filling these posts is critical given the increasing activities at the Academy.

## Strategic Review

### **Access**

#### *New Video Series Launched*

The Faculty introduced the "Trailblazers in Sports" series to commemorate its anniversary. The series showcases accomplishments of sports figures affiliated with the Faculty, The UWI, and beyond. It has already featured two Sport Sciences programme graduates from Cave Hill and is accessible on the Faculty's YouTube channel.

#### *Teaching Challenges*

Students faced connectivity issues during cross-campus teaching of undergraduate programmes across Cave Hill, Mona, Open, and St. Augustine campuses due to poor internet connectivity.

# FACULTY OF SPORT

## *Programme Developments*

The Executive Master's European Caribbean High Performance Sport Management was approved by the Board of Undergraduate Studies in February 2023. Funding of €15,000.00 from the Association of French Universities facilitated its development, with further funding sought for a January 2024 start.

An agreement is pending with Rajasthan Royals of India to use the UWI FSP's expertise in Sport Science and Nutrition for a short course on their educational platform. An MOU is expected to be signed in the first quarter of 2023/2024.

The Open Campus Academy Head is in talks with the Pan Am Sports Organisation and the Caribbean Association of National Olympic Committees (CANOC) for a certificate course in sport administration management. An agreement is anticipated within the coming year.

## **Alignment**

### *Research and Innovation*

Research in the Faculty was hampered this year as Academy Heads shouldered increased administrative responsibilities. Nevertheless, the Faculty maintained its presence in the two newspaper columns, *Sport Matters* and *Sport Pulse*, in the Trinidad Guardian and the Jamaica Gleaner respectively. Dr Anand Rampersad served as the editor for the articles submitted to the Trinidad Guardian. Over 40 articles were published this year with submissions from staff across the Faculty, graduate students at the Mona Academy, as well as from guest contributors.

Although a request to USAID seeking funding for a Climate Change and Sport Initiative was not successful, the Faculty remained committed to its climate action agenda. Proposals submitted through the Global Institute for Climate-smart and Resilient Development (GICSRD) on rainwater harvesting and solar electricity generating systems were accepted. A sub-committee was formed to further develop the proposals to access donor funding.

### *National Engagement and Outreach*

Relationships with governments, sport governing bodies and sporting entities were built strengthened during the year. A visit to Jamaica by Trinidad & Tobago's Minister of Sport and Community Development, the Honourable Shamfa Cudjoe-Lewis, led to a draft proposal for a Community Inclusion programme. The proposal was submitted to the Government of Trinidad & Tobago for consideration.

The 22<sup>nd</sup> Annual Frank Worrell Memorial Lecture was delivered by the **Prime Minister of the Republic of Barbados, the Honourable Mia Motley** on 25 July. She used the opportunity to remind the Caribbean governments that they have a responsibility to see to the development of the game of cricket; recommending that new governance structures must be put in place for its sustainability.

A webinar series titled *Debates in Sports Ethics* was launched in February 2023. Two episodes of the series were delivered through the collaborative efforts of the Department of Language, Linguistics & Philosophy in the Faculty of Humanities & Education (Mona), the Institute for Gender and Development Studies (St. Augustine), the UWI Equity, Diversity & Inclusion Unit



and the Faculty of Sport. **Visiting Professor Balaganapathi Devarakonda** served as the ethics expert for the series.

The Faculty also hosted a virtual panel discussion on *“Sport as an Antidote for Gender Based Violence”* on 01 December 2022, in recognition of International Day for the Elimination of Violence against Women (IDEVAW) through 16 days of activism. The regional forum was organised in collaboration with Brock University and the Institute for Gender and Development Studies (IGDS). Professor of Kinesiology at Brock University, Cathy van Ingen whose research, outreach and advocacy centre on Boxing as therapy for domestic violence and other trauma was the feature presenter. The aim was to increase awareness of the benefits of sport as a therapeutic tool for coping with the effects of trauma including gender-based violence. The event targeted coaches, trainers, clubs, social service agencies, non-profit organisations, gender studies and sport researchers, and victims of abuse among others.

Members of the Faculty were panellists on the Acorn Climate Summit themed *“Climate Departure and Resilience, is Jamaica Ready for the Journey?”*, held on 24 October 2022. The panel comprised of members of faculty, Ms Carole Beckford, Sports Marketer, and student representative, Llori Sharpe, who made presentations and led a panel discussion around the theme of *“Sport and the Climate Crisis: Victim, Contributor, or Advocate?”*

A MOU was signed between the Jamaica Olympic Association (JOA) and The University of the West Indies (UWI) on 28 February 2023, with the aim of fostering greater development of athletes, coaches, and sports administrators.

The Faculty maintained partnership agreements with the Caribbean Premier League (CPL), the Trinidad Guardian, SporTT (Trinidad), the Jamaica Cricket Association, the Jamaica Hockey Federation, the Kingston & St. Andrew Football Association (KSAFA), the National Powerlifting Association (Jamaica), the Americas Federation of Netball Associations (AFNA), and the University of New Brunswick.

## Agility

### *Regional and International Collaboration*

An MOU with Melbourne Polytechnic was signed in August 2022. In the first year of collaboration, the parties worked on the development of an International Sports Turf programme. To advance this development, representatives from Melbourne Polytechnic will conduct a reconnaissance visit to the Caribbean during the second quarter of 2023/2024. The St. Augustine Campus hosted the Cricket West Indies Rising Stars Under 19 Women’s Tournament in June 2022 as part of its contribution toward developing women’s cricket in the region. UWI Mona was lauded for successfully staging the second Rugby Americas North Regional Women’s 15 and Men Under 19 international tournaments.

### *Income Generation*

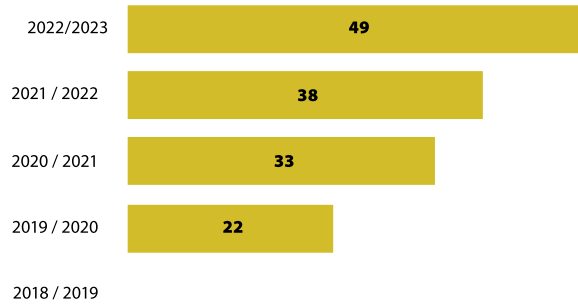
The Faculty earned modest income from short courses (CWI Coaching Certification, Sport Marketing and the Cricket MOOC) and rental of facilities during the year. The MOOC, *West Indies Cricket: Our Story*, earned commission of US\$443.66 up to the end of the second quarter of the year.

Revenues from rentals and gym membership at the St. Augustine Academy totalled TT\$304,517.58. The Faculty looks forward to the repair of the air condition unit at SPEC which impacted the rentals of the indoor court negatively this year.

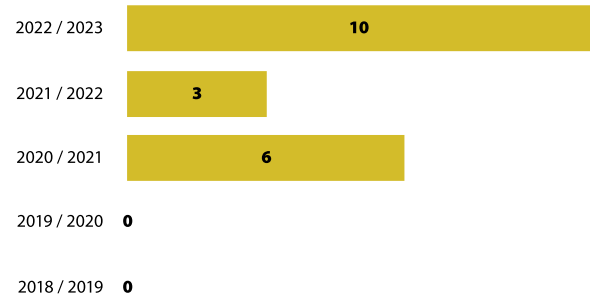
# FACULTY OF SPORT

## Enrolment & Graduation Trends

### Enrolment Trends – Sport (UG Only)



### Graduation Trends – Sport (UG Only)





# CENTRES AND INSTITUTES

## ANSA McAl Psychological Research Centre

### Director's Summary

The ANSA McAL Psychological Research Centre (AMPRC) maintained its commitment to engaging in activities aligned with The University of the West Indies' (UWI) Triple A Strategy. In keeping with this commitment, the Centre actively collaborates with academics regionally and internationally, focusing on research initiatives that address prevalent issues.

The Centre also continued working on the Bridging the C.R.I.M.E. (Community, Research, Innovation, Monitoring, Empowerment) Divide project. The COVID-19 pandemic and measures undertaken to reduce the spread of the virus delayed the data collection phase of the project.

In commemoration of the 10<sup>th</sup> Anniversary of Psi Chi, The International Honor Society in Psychology, UWI St. Augustine Chapter, the AMPRC organised a student conference. The Psi Chi, UWI St. Augustine 10<sup>th</sup> Anniversary Student Conference provided a platform for faculty, undergraduate and graduate students to present their research. **Professor Jason Young**, Former President (2013-2014) of the Psi Chi International Honor Society, was the featured speaker at the conference.

In addition, the Centre remains dedicated to supporting undergraduate and graduate students across the University in developing research skills through its Seminar Series. These seminars provide a forum for students to share their research and obtain valuable feedback from faculty and peers. As we

look forward, the AMPRC remains committed to building upon past initiatives and working towards strategic goals in the academic year 2023/2024.

**Professor Derek Chadee**

### Research

#### *Crime Survey: Bridging the C.R.I.M.E. divide (ongoing)*

Director Crime and violence are significant social and economic issues in Trinidad & Tobago. The effects of crime and violence are also experienced through the decrease in human welfare, individual perceptual and emotional changes, social fragmentation and economic decline. These issues pose a significant threat to sustainable development in Trinidad & Tobago. Considering their implications, Bridging the C.R.I.M.E. Divide is an ongoing research project by the Centre that adopts a social innovation approach to inform recommendations to address the challenges posed by this issue. This project aims to promote greater public advocacy through collaboration with stakeholders, bridge research gaps, further stimulate multidisciplinary research, utilise innovative strategies to respond to crime victimization and compare baseline levels of crime victimization from the Crime Victimization and Fear of Crime Survey (2015).

This project is executed by partnering with key stakeholders to investigate how divides affect crime perceptions, victimization, and responses to victimization. Stakeholder engagement included meetings and think tank sessions with the Trinidad & Tobago Police Service, ex-offenders, businesses

and vulnerable populations in both Trinidad & Tobago. These specific engagements were conducted to understand the impact of crime and violence and aided in preparing the research instrument. The data collection phase of this project experienced delays due to the COVID-19 pandemic and strategies to reduce the spread of the virus. The revised date for the commencement of data collection is February 2024.

### International Collaboration

In the 2022-2023 academic year, the AMPRC maintained its objective to foster relationships with researchers across the globe by collaborating with international scholars, organising knowledge-sharing initiatives and collaborating on international research. There were several international collaborations by the Centre in the 2022-2023 academic year. Through these engagements, the Centre continues to impact the discourse on psychological issues regionally and internationally.

#### *Visiting Scholars*

April 2023: Professor Jason Young, Past President, PSI CHI International Honor Society, Hunter College, CUNY. Professor Young's visit encompassed several engagements and meetings involving collaboration with the Centre and Hunter College City University of New York and CUNY and included meetings with the United States Embassy, The Trinidad & Tobago Police Service (TTPS) and presenting the feature address at the Psi Chi 10<sup>th</sup> Anniversary Student Conference.

#### *International Seminar Collaboration: 2022-2023 Academic Year*

The ANSA McAL Psychological Research Centre collaborated with Syracuse University, Pennsylvania State University, and The Commonwealth University of Pennsylvania, Bloomsburg University on a Mini-Conference on Play, Development and Early Education in April 2023.

Conference Topic: *Play in Difficult Circumstances in the Caribbean: Risk and Protective Factors*

This conference focused on increasing an interdisciplinary understanding of the role of family, community, and educational practices in childhood development. The conference attracted speakers from universities in the United States and the Caribbean, presenting on risk and protective factors in childhood development, the importance of preschool play, and problem-solving in early development.

### International Research Collaborators

**Professor Roopnarine Jaipaul**, Pearl S. Falk Endowed Professor of Human Development and Family Science, Syracuse University, New York. Professor Extraordinary of Developmental Psychology, Anton de Kom University of Suriname. Professor Jaipaul has collaborated extensively with the Centre, engaging in seminars, workshops, and publications. His research focuses on Caribbean family socialization patterns, risk and protective factors and early childhood education.

#### **Professor Jason Young,**

Professor, Department of Psychology, Hunter College, CUNY. Professor Jason Young visited the Centre in April 2023, participating in several engagements with the Trinidad & Tobago Police Service, the US Embassy and students. He will visit the Centre in April 2024 as a Fulbright Specialist to work on the ongoing Bridging the Crime Divide project, an extension of the Crime and Fear of Crime Victimization Project.

#### **Professor Ray Surette,**

Professor, Department of Criminal Justice, University of Central Florida. Professor Surette is currently collaborating with the Centre on Copycat Crime research and examining the impact of legacy and new media on criminality.

# CENTRES AND INSTITUTES

**Dr Alexandra Kostic**, Professor of Social Psychology, Department of Psychology, University of Niš, Serbia. Dr Kostic continues to collaborate with the Centre on publications. The most recent is an edited book on Body Language, forthcoming in 2024.

## *Toronto Metropolitan University and The UWI Exchange*

The Centre has held discussions with **Dr Kiaras Gharabaghi**, Dean, Faculty of Community Services and Professor of School of Child and Youth Care, establishing a multidisciplinary exchange between institutions to facilitate international research collaboration and possible joint fund seeking. This exchange aims to synergize ideas across academic disciplines that are community focused. This initiative continues in the 2023-2024 academic year.

## *ANSA McAL Foundation Visit to the Centre*

On the eve of celebrating the Centre's 35<sup>th</sup> Anniversary in 2024, Chairman of the ANSA McAL Foundation, **Mr Andrew Sabga** and other board members visited the Centre on March 28, 2023. This visit reinforced the relationship the ANSA McAL Foundation has with the Centre. The Foundation issued a press release to the Trinidad Guardian, complimenting the Centre's research and contributions to the UWI and Trinidad & Tobago.

## *Understanding Stigma and the Processes of Psychological Reactance*

In April 2023, a workshop titled *Understanding Stigma and the Processes of Psychological Reactance* was hosted by the AMPRC in collaboration with the Police Academy of Trinidad & Tobago. The ANSA McAL Psychological Research Centre initiated a 2018 memorandum of understanding with the Trinidad & Tobago Police Academy and The St. Augustine Campus. The workshop was another AMPRC activity with the academy that

operationalised the MOU. **Professor Jason Young** presented at the workshop on Countering the Silence: Understanding Stigma Associated with Help-Seeking Behaviour. **Professor Derek Chadee** also presented on *Psychological Reactance – What it is, Application and Consequences for Policing*. Over forty (40) officers attended the workshop, many from the Homicide Division of the Trinidad & Tobago Police Service.

## *Fulbright Specialist*

The ANSA McAL Psychological Research Centre collaborated with the US Embassy to support Professor Jason Young as a Fulbright Specialist in Fear of Criminal Victimization. Professor Jason Young will be visiting the Centre in April 2024, working with the Centre on an ongoing Crime, Victimization and Fear project. **Professor Jason Young** is in the Department of Psychology at Hunter College in New York City. He is a fellow of the American Psychological Association, a past national president of the Psi Chi Honor Society, and an officer in the International Association of Cross-Cultural Psychology. His research addresses the impact of our emotions on how we think about risk and safety, including our reactions to crime, COVID threats, and math anxiety through our everyday spending behaviour.

## *Judicial Education Institute of Trinidad & Tobago (JEITT)*

In October 2022, **Professor Derek Chadee** represented the Centre at the Judicial Education Institute of Trinidad & Tobago (JEITT), presenting on *Psychological Reactance in Judicial Engagements*. This presentation outlined how psychological reactance theory can assist in understanding the behavioural and emotional responses of persons in court proceedings. The session allowed participants to understand and manage the reactions they received during court proceedings.

### *Stakeholder Engagement Seminars*

In the 2022/2023 academic year, the Centre launched the Stakeholder Engagement Seminars, strategically developed to engage policymakers and stakeholders actively involved in addressing issues in Trinidad & Tobago and the broader Caribbean. These seminars aim to bridge the gap between academics and professionals, offering a forum to exchange knowledge and ideas. These seminars also foster networking opportunities with The UWI and international scholars, alongside relevant stakeholders, including Government Ministries and Non-governmental organisations. The Centre's objective in facilitating the exchange of academic expertise and practical experience is to cultivate synergies that drive evidence-based policy decisions and innovative solutions to social issues.

### *Seminar: Performance Anxiety and You*

Presenter: **Dr Daniel Ramjattan**, Wilfrid Laurier University, Canada  
This seminar was a collaboration between the ANSA McAL Psychological Research Centre and the Department of Creative and Festival Arts (DCFA). Dr Ramjattan provided a theoretical overview of anxiety and practical tips to manage performance anxiety, demonstrating how a theoretical understanding of behaviour could facilitate real-world solutions to improving performance and overall well-being. Over 50 people, including faculty, musicians, students and media, attended the seminar. The UWI Today published an article on the session.

Seminar Title: *Not Always a Victim, but Often Afraid: Psychological and Socio-Cultural Influences of Fear of Crime.*

Presenter: Professor Jason Young, Hunter College, City College New York (CUNY), March 2023.

This virtual seminar covered fear of crime and the perceived risk of victimization in Trinidad & Tobago. Attendees included members of the Trinidad & Tobago Police Service (TTPS), faculty, and undergraduate and postgraduate students.

### *Psi Chi, UWI St. Augustine Chapter*

In March 2013, The Centre spearheaded the establishment of a Psi Chi Chapter at The UWI, St. Augustine Campus. The Centre remains committed to promoting academic achievements and the development of students across the University.

### **Psi Chi Activities 2022-2023**

The Chapter used social media platforms to raise awareness of mental health and psychological well-being issues on specific days of commemoration such as World Suicide Prevention Day – September 2022, National Women's Health and Fitness Day – September 2022, National Women's Health and Fitness Day – September 2022, Mental Illness Awareness Week – October 2022, International Stress Awareness Week – November 2022, and Sweethearts Day - February 2023, in celebration of Valentine's Day and promoting the Chapter.

### **Psi Chi 10th Anniversary Student Conference**

To commemorate the 10<sup>th</sup> Anniversary of the installation of the Psi Chi UWI St. Augustine Chapter, the Centre hosted a Student Conference on 06 April 2023, at the Learning Resource Centre (LRC), St. Augustine. Professor Jason Young, Visiting Professor and Past President of 2013-2014 Psi Chi International, gave the featured address at the Conference. Professor Hariharan Seetharaman, then Director, Graduate Studies and Research,

# CENTRES AND INSTITUTES

extended greetings and support of the initiative. The student conference attracted over 100 postgraduate and undergraduate students, offering them a unique opportunity to engage in an academic conference setting. Presenters included UWI faculty and postgraduate and undergraduate students presenting research on several topics, including artificial intelligence, mental health and wellness, fear of crime and the application of psychology to learning. Prestige Holdings Limited sponsored the conference refreshments.

## *Psychology Seminar Series*

The Psychology Seminar Series provides researchers and postgraduate students a platform to share their research with faculty members, students and stakeholders. The key objectives of the seminars are to enhance research and critical thinking skills, facilitate peer learning and develop students' presentation and communication skills. Presenters also gain valuable feedback on the direction and development of their research. Furthermore, prospective graduate students are enlightened on the standard of research activities undertaken by MPhil and PhD students.

## *Student Prizes*

### **TATIL Prize for Best Psychology Research Project.**

The TATIL Prizes for Best Psychology research projects are an initiative by the ANSA McAL Psychological Research Centre, seeking the support of the TATIL Group. For thirty years, the TATIL Group has presented three prizes to the top three research groups for PSYC 3025 Research Projects in Psychology. The Centre is grateful to The TATIL GROUP for their continued support of student research. The TATIL Prizes for Best Psychology Research Projects were awarded to three research groups this year at the Faculty's Evening of Excellence. Two groups tied for the second-place prize.

FIRST PLACE: "Examining How Fear of Crime and Instagram Consumption of Crime-related Content Affect Punitive Attitudes Through Need for Cognition Among a Sample of Undergraduate Degree Students from the University of the West Indies." **Ms Aryana Mohammed, Ms Amaanah Ali, and Ms Ameerah Mohammed.**

SECOND PLACE: "Navigating the Physical School Environment: The Association between Fear of Contracting COVID-19 and Socialization Practices Among Level Two and Three Undergraduate Students." **Ms Yanacia Easton, Ms Shinese Rajkumar, Mr Glen Boodram, Ms Selena Sahadeo, and Ms Adrianna Deonarine.**

THIRD PLACE: "The Impact of Exposure to Persons with Mental Illness on Stigma Towards Severe Mental Illness Among Students of the University of the West Indies, St. Augustine." **Ms Crysanne Patrick, Ms Leah Rose, Ms Nicolette De Mille, and Ms Sumayah Razack.**

### **ANSA McAL Psychological Research Centre, Most Outstanding Final Year BSc Psychology Student Award.**

The Best Final Year Psychology Student Award is earned by the student with the highest grades and marks in Year III. **Ms Isabelle St Omer** was awarded the ANSA McAL Psychological Research Centre Best Final Year Psychology Student at the Faculty's Evening of Excellence.



## Strategic Review

The ANSA McAL Psychological Research Centre has consistently sought to streamline its operations to be consistent with the goals of The UWI. In this regard, several initiatives and ventures undertaken by the Centre through its established annual objectives and collaborations are detailed below.

### Access

The Centre organised and collaborated with other Departments on conferences, workshops and seminars. These activities engaged faculty and students across the University, building multi-disciplinary perspectives and sharing research to enhance teaching, learning and student development. At the Psi Chi 10<sup>th</sup> Anniversary Student Conference, faculty and students had the opportunity to share their research. Level I and Level II students observed the quality of research produced by Level III and graduate students. The conference was open to all students, and the events were well-attended. The Centre also hosted seminars with international and regional researchers, faculty, graduate students and stakeholders. The Centre encourages joint publications with international researchers, publishing articles in peer-reviewed journals and books with top-tier publishers (Wiley-Blackwell, Taylor & Francis, Palgrave-MacMillan). A social innovation approach was used to develop the Bridging the C.R.I.M.E. Divide project. This approach involves the use of collaborative activities to address the complex issue of fear of crime and violence. Adopting this approach will encourage stakeholders, students and staff to use similar methods. The project will be implemented in Semester II 2024/2025.

### Alignment

The Centre continues to work with the Trinidad & Tobago Police Service (TTPS), Police Academy of Trinidad & Tobago, and the Ministry of National Security, to conduct workshops and seminars on crime and violence. The Centre collaborated with the United States Embassy to support Professor Jason Young as a Fulbright Specialist in Fear of Criminal Victimization. A presentation was given to the Judicial Education Institute of Trinidad & Tobago (JEITT) on how psychological reactance theory applies to understanding behavioural reactions to court proceedings. Psi Chi UWI Chapter used social media to share coping strategies to help students manage stress and maintain well-being.

### Agility

The Centre collaborated with researchers in the United States and Europe through seminars, workshops and publications utilizing top-tier publishers. A collaboration with Toronto Metropolitan University and the University of the West Indies was initiated in semester II of the 2022-2023 academic year to generate cross-cultural and multidisciplinary research.

# CENTRES AND INSTITUTES

## Centre for Health Economics (HEU)

### Director's Summary

The commencement of the 2022/2023 academic year brought with it hope and the determination to move forward to overcome the unescapable effects of the COVID-19 pandemic. The staff of the HEU, Centre for Health Economics resolved to successfully execute its mandate of being, a resource and technical partner to national and regional agencies through the execution of its research and capacity development agenda. While ensuring congruence with The University of the West Indies' (UWI's) strategic goals, the HEU focused its research agenda and technical support, both nationally and regionally, on broad areas of Sustainable Health Sector Financing and Health Systems Analysis, with a focus on socioeconomic dynamics, Socioeconomic Health Impact Assessments and Health and Economic Policy Analysis.

The Centre pursued several projects, which were either national or regional in scope during the academic year. On the national front, work on the development of a National Register of Vulnerable Persons for Trinidad & Tobago continued unabated in collaboration with the Ministry of Social Development and Family Services (MSDFS) and the United Nations Development Programme (UNDP). A pilot survey for the register was launched by the partner agencies to inform finalisation and operationalisation of the National Register. On the regional front, the HEU, in collaboration with colleagues from the World Bank Group, completed a Case Study on the Financing of Essential Public Health Services in the Caribbean Region. This study analysed financing in four countries and CARPHA and provided a platform for comparison and analysis of essential public health financing across the region.

**Dr Althea La Foucade, Director**

### Achievements

**Mr Roger McLean**, Research Fellow of the HEU, Centre for Health Economics was among a team of researchers of The University of the West Indies, St. Augustine that received high commendation for the project, "*Development of a Travel Demand Model for Trinidad*". This achievement afforded The University to be classed among the best global companies and projects within the highways, transportation, infrastructure and services industry to receive the commendation in December 2022. The team was commended at the Chartered Institution of Highways and Transportation (CIHT) prestigious Annual Awards. The award gives validity to the model designed and sets the stage for The UWI to partner with regional Government to provide their transportation sectors with engineering and planning support.

### Teaching and Learning

During the 2022/2023 period under review, the staff of the Centre participated in the teaching of the Health Economics courses at the BSc, MSc, MPhil and PhD levels of the Faculty of Social Sciences through collaborative arrangements with lecturers in the Department of Economics. Members of staff of the HEU also provided instructions in the Health Economics module in the Master's in Public Health programme at the St. Augustine Campus through arrangements with the Faculty of Medicine. Additionally, the Centre's staff assisted in the supervision of graduate research students, specifically in the Faculty of Social Sciences, and Science and Technology.

In keeping with the 'One UWI' concept, several staff members of the HEU, Centre for Health Economics were pleased to collaborate with the Public Health Group, The Faculty of Medical Sciences (FMS), The University of the West Indies, Cave

Hill Campus, Barbados, to support the teaching of the Health Economics course on their MPH programme. Over the period 03 February 2023, to 10 March 2023, the HEU Team delivered lectures on the following: *Understanding the Economics of Health: The Issues Matrix*; *Organization of the Health Sector: Agents and Challenges*; *The Role of the Public Sector in a Small Country Environment (Public Sector leadership where income deficit is the norm)*; and *Confronting HIV/AIDS in the Caribbean*. The team included: Professor Karl Theodore; **Dr Althea La Foucade**; **Dr Christine Laptiste**; Dr Stanley Lalta; D Anton Cumberbatch; **Mr Roger Mc Lean**, **Ms Vyjanti Beharry** and **Mrs Patricia Edwards-Wescott**.

HEU staff and associates also contributed to the teaching of the Health Economics Module (DrPH Seminar - Health Economics Module), Faculty of Medicine, Mona. In both the case of the Cave Hill and Mona campuses, lectures were delivered with no fee attached. Participation in the teaching and learning process also extended to Non-UWI institutions during the 2022/2023 academic year. HEU staff utilised both online and in-person modes of transmission to conduct the following teaching, learning and capacity building sessions with health care professionals.

Two health financing assessment workshops were conducted by the HEU in collaboration with the Pan-American Health Organization (PAHO) and the Ministries of Health (MoH) of St. Vincent and the Grenadines and Suriname. Under the theme *Assessing Caribbean Countries' Progress towards Universal Health Coverage - Health Financing Progress Matrix* these workshops were held in August 2022 in St. Vincent and Grenadines and in October 2022 in Suriname. The objectives of the workshops were to sensitize country working groups/teams on the WHO Health Financing Progress Matrix; to build and enhance local

capacity to undertake similar and related policy assessments of their health financing arrangements and to lead follow-up activities. Each country working group comprised approximately 14 local representatives. Facilitators included Dr Stanley Lalta, **Ms Charmaine Metivier**, **Mrs Patricia Edwards-Wescott**.

On 8<sup>th</sup> March 2023, PAHO/WHO introduced its assessment instrument, **Virtual Tool for the Self-Assessment of Capacities for the Exercise of the Essential Public Health Functions** to several members of HEU's staff. This capacity building activity equipped staff for the execution of Phase II of a PAHO/WHO funded initiative, for the provision of technical support and capacity building on behalf of PAHO/WHO Trinidad & Tobago Country Office to the Trinidad & Tobago Ministry of Health.

Subsequently, over the period April 25<sup>th</sup> to 27<sup>th</sup> 2023, the Centre's staff convened a hybrid (in-person and virtual) Technical workshop involving department heads and support staff from the Ministry of Health (MOH) in an assessment exercise. This initiative involved the use of the virtual tool to conduct the self-assessment of the Ministry's capacities to perform the Essential Public Health Functions. The workshop also provided technical support and capacity building to the Ministry of Health, in the use of the tool. The daily sessions were facilitated by members of the HEU's team led by Dr Anton Cumberbatch and included facilitators **Mr Roger McLean**, **Ms Charmaine Metivier**, **Mrs Patricia Edwards-Wescott** and Dr Stanley Lalta. Support during the sessions was also provided by the PAHO Washington team. The three-day workshop provided the opportunity for approximately 30 high-level and mid-level staff of the MOH to benefit both in-person and virtually.

# CENTRES AND INSTITUTES

## *Administrative Improvements*

The HEU Secretariat initiated work on the production of two guides to improve the efficiency of operations. These included HEU General Office Procedures, and the HEU Administrative and Clerical Guide.

## Research

The Centre completed several research projects during the academic year, 2022/2023. The research agenda was primarily driven by the demands of regional Governments and other international institutions. Over the period August 2022 to July 2023, the HEU also partnered with regional and international agencies and formalised significant relationships with key stakeholders.

Over the period, September 2022 to July 2023, the HEU supported Dr Anton Cumberbatch (former CMO of Trinidad & Tobago and Lead Consultant) in the execution of a project on the **Evaluation of the Essential Public Health Functions in Trinidad & Tobago**. This PAHO/WHO sponsored project involved the provision of support to the PAHO/WHO Trinidad & Tobago, Aruba, Curacao, Sint Maarten, Bonaire, St. Eustatius and Saba Country Office and the Trinidad & Tobago Ministry of Health (MoH) in assessing the capacity of the national health authority to undertake necessary public health actions for strengthening and enhancing the functioning of the health system. This evaluation assessed the capacities of the national health authority at all institutional levels. The following Reports were produced: Report on the Situational Analysis and Institutional Mapping for the 11 EPHFs, Report on the Measurement of the institutional Capacities for each of the 11 EPHF, and Report on the Gap Analysis and a Roadmap for each of the 11 EPHF and a costed Action Plan. The findings of the study provided valuable

information on the existing capacity of the MOH to execute effectively and efficiently the 11 EPHF and to identify the gaps which hinder the MOH's ability to do so. It is expected that uptake of the recommendations provided in the Roadmap for each EPHF will strengthen the institutional capacities of the MOH to carry out these functions. In addition, the broad estimation of the costs provided on the resources required is expected to assist in achieving more accurate budgeting by the relevant departments.

The HEU also undertook critical research to facilitate the reporting of the Ministry of Planning and Development, Government of Trinidad & Tobago to the United Nations Population Fund (UNFPA). **The National Report on the Montevideo Consensus on Population and Development (MCPD)** is a United Nations Population Fund (UNFPA) sponsored project, which involves the compilation of a National Report on the status of the Montevideo Consensus on Population and Development (MCPD). The Montevideo Consensus consists of priority measures, agreed to by the Governments in Latin America and the Caribbean, for implementing the programme of Action of the International Conference on Population and Development (ICPD-POA). It is seen as a tool for assisting countries in sharing their experiences, helping them to achieve the Sustainable Development Goals (SDG) while encouraging greater public awareness of population and development issues, as well as fostering dialogue between governments and stakeholders.

The report presents the national achievements on the key indicators as outlined in the Montevideo Consensus. Agreements on indicators were arrived at through discussions with Government Ministries, Civil Society Organisations, and International Development Agencies. The National Report on the Montevideo Consensus on Population and Development was submitted by the HEU.

The Inter-American Development Bank commissioned Johns Hopkins Bloomberg School of Public Health, in collaboration with seven institutions in Latin America and the Caribbean to develop an economic model to project estimates of health expenditure to 2050. The HEU, in partnership with Professor Alafia Samuels (Mona) began the work of estimating health expenditures by ICD classification for Trinidad & Tobago. This country model will be used as a template for other countries in the region. Several publications will result from this collaboration, the first of which was already published with HEU team members named as co-investigators <https://publications.iadb.org/en/future-health-spending-latin-america-and-caribbean-health-expenditure-projections-scenario-analysis>).

The Development of the National Register of Vulnerable Persons for Trinidad & Tobago is a project of significant, potential national impact that was undertaken by the Centre, during the 2022/2023 academic year. This UNDP funded project involves collaboration with the Ministry of Social Development and Family Services to develop a National Register of Vulnerable Persons (NRVP) for Trinidad & Tobago. The NRVP facilitates, among other things: Analysis and reporting of vulnerability by characteristic (for example, age, gender and sex); Identification of various levels and intensities of individual and household vulnerability; Linking social programmes to categories of vulnerability; and Generation of unique identifiers for individuals and households to reduce duplication of registrants and benefits. Final Reports produced included an Inception Report; The Final Design of the National Register of Vulnerable Persons; and Robustness Tests Results for different measures of the Multidimensional Poverty Index (MPI) for Trinidad & Tobago.

During the academic year under review, The World Bank Group collaborated with the HEU to undertake the Case Study on the Financing of Essential Public Health Services in the Caribbean Region. This study was regional in scope and involved the assessment of the capacity of the public health systems of Jamaica, Barbados, Grenada and Trinidad & Tobago to efficiently deliver and finance the ten Essential Public Health Services (EPHS) as classified by the Bank. The reports produced were a Case Study on the Financing of Essential Public Health Services in the Caribbean Region, and a Case Study on the Financing of Essential Public Health Services in the Caribbean Region: Statistical Report.

While this study reviewed the expenditure by CARICOM countries on the delivery of Essential Public Health Services (EPHS), during the COVID-19 epidemic, it also analyzed the financing arrangements implemented to ensure the predictability of funding and the sustainability of the level and flow of funds over the medium and long terms, to execute essential public health functions in the four pilot countries. The research also examined the close synergistic relationship between the Caribbean Public Health Agency (CARPHA) and its Member States.

The Centre continued its research in the Caribbean through the provision of Technical Support for Health Financing in the Non-Spanish Speaking Caribbean (LOA 2022). The Pan American Health Organization, Regional Office for the Americas of the World Health Organization ("PAHO/WHO") funded the provision of technical support for health financing in selected Caribbean countries. Activities executed by the HEU, Centre for Health Economics (UWI-HEU) were in four main areas: A

## CENTRES AND INSTITUTES

comprehensive review of health financing arrangements in the Caribbean; The implementation of the WHO Health Financing Progress Matrix (HFPM) in two Caribbean countries (St. Vincent and the Grenadines (SVG) and Suriname); Preparation of an article on existing financial protection mechanisms, and Development of a policy option paper on mechanisms to strengthening financial protection in the Caribbean. Final Reports produced and submitted in December 2022 included: two articles entitled “A Review of Health Financing Systems in the Caribbean and Recommendations for strengthening these Systems to Secure Universal Health Coverage” and “A Systematic Review of Financial Protection Mechanisms in 20 English-Speaking Caribbean Countries”; Workshop Reports for Health Financing Progress Matrix (HFPM) Workshops conducted in St. Vincent and the Grenadines (SVG) on 12 July 2022, and 03 – 05 August to 2022 and in Suriname from 04 October to 6<sup>th</sup> 2022; WHO Health Financing Progress Matrix Assessment: Towards Universal Health Coverage St. Vincent and the Grenadines Results; and WHO Health Financing Progress Matrix Assessment: Towards Universal Health Coverage Suriname Results.

### Outreach

The HEU collaborated with the Medical Benefit Scheme of Antigua and Barbuda to host the 14<sup>th</sup> Caribbean Conference on National Health Financing Initiatives in Antigua and Barbuda from 19 - 21 October 2022. The theme of the conference was ‘*Confronting the Financing Challenges of COVID-19 and the Unfinished Universal Coverage Agenda*’ with specific focus on the Financial impact and coping strategies globally and in the Caribbean to COVID-19; Fiscal space for health; Financial progress and plans to address the unfinished agenda of Universal Health Coverage in the Caribbean especially in the areas of efficiency, financial protection and public-private

partnerships and health financing arrangements; and Challenges such as childhood obesity and new directions to consider such as digitization of health records and data analytics.

Presenters included Sir Molwyn Joseph, Minister of Health, Wellness and the Environment, Antigua and Barbuda; Dr Valda Henry, Deputy Governor, Eastern Caribbean Central Bank; Mr Danny Gill, Health Finance Commissioner, Barbados, and Mr Kevin Silston, Director Medical Benefits Scheme, Antigua and Barbuda. Dr Rhonda Sealey-Thomas, then CMO, Antigua and Barbuda (now PAHO/WHO Assistant Director); Mr Roy Barry, Manager, NHI, Virgin Islands (UK), and Dr Guillermo Sandoval, Advisor, Health Economics and Financing, PAHO also made presentations.

The HEU undertook several strategic collaborations with local, regional and international partners, agencies and stakeholders to execute its engagements in knowledge sharing and outreach activities. These collaborative initiatives facilitated the integration of health economics principles in finding solutions to improve the conditions under which people live in the Caribbean.

On 08 February 2023, the Trinidad & Tobago Chamber of Commerce in collaboration with the HEU, Centre for Health Economics held a forum at the Hyatt Regency Hotel in Port of Spain titled “*Health Technology Assessment for Healthcare Decision Making in Trinidad & Tobago*”. **Dr Henry Bailey** presented on Health Technology Assessment (HTA) in Trinidad & Tobago and **Dr Christine Laptiste** presented on Costing in Healthcare. The session was fully subscribed with 60 registrants from the various Regional Health Authorities (RHAs), The UWI, the Ministry of Health (MOH), several private sector organisations, NGOs, the pharmaceutical sector and the news media. The event highlighted the agenda of the Chamber of Commerce and of The UWI to bring HTA into use within the public health system in Trinidad & Tobago.

Two workshops were held in collaboration with representatives of the Ministry of Social Development and Family Services, and United Nations Development Programme over the period April to June 2023, on the development of the National Register of Vulnerable Persons for Trinidad & Tobago (NRVP). The first workshop spanned three days (20, 25 April & 02 May 2023) and focused on the Selection and Finalization of the Dimensions, Indicators and Business Rules to Estimate the Vulnerable Population in Trinidad & Tobago. The second involved a demonstration of the NRVP IT Platform to participants of various Government Ministries (05 and 22 June, 2023). **Ms V. Beharry, Mr D. Bethelmie and Mr S. Gabriel** presented and facilitated on behalf of the HEU.

#### *HEU Bi-Annual Bulletin - IMPACT*

The HEU's Bi-Annual Bulletin, IMPACT, offers a critical platform for the Centre to contribute to the regional discourse on human development and apprise partner agencies and professionals of its work and by extension, that of The UWI. Additionally, the production of the Bulletin also allows the HEU to collaborate with, and reach out to partners, stakeholders, and agencies to share their expertise and knowledge on the many issues plaguing the region. Awareness of the Centre's work in health economics, through the Bulletin, will therefore contribute to The University's strategic goal of being the first choice for alumni and non-student customers seeking products and services for all things Caribbean. During the period under review the HEU produced and released two volumes of its Bulletin: Volume 4, Issue 1 and Volume 5, Issue 1.

The theme of Volume 4, Issue 1 was *Vulnerability: Impetus to Change* and was released in September 2022. This publication shone the light on work done among the elderly population with specific reference to Jamaica during the pandemic while

also critically examining the drivers of vulnerability in the context of the social determinants of health, mental health impacts of COVID-19, and their possible solutions or mitigation strategies for the Caribbean.

In June 2023, the HEU collaborated with four external partners including the Rockefeller Foundation, to produce and published Volume 5, Issue 1 under the theme, '*Climate Change: A Borderless Crisis Impacting Health and Development*'. It focused on the impact of climate change on the health of the populations and the economies in the Caribbean and provided innovative strategies to mitigate the negative effects of climate change. Solutions included the involvement of civil society and placed communities at the centre of these innovations.

#### *Global AIDS Monitoring (GAM) Reports (2022 to Present)*

In 2021, the HEU signed a two-year MOU with the Office of the Prime Minister (OPM). The MOU required the Centre to Derive an HIV Specific Health Accounts Report; Capture the Domestic Budget for HIV as guided by Indicator 8.1 of the GAM Report; Capture Antiretroviral Treatment (ART) volumes and unit prices as guided by Indicator 8.2 of the GAM Report; and Capture HIV expenditure as guided by Indicator 8.3 of the GAM Report. Under this two-year agreement the HEU successfully conducted HIV Health Accounts Audits to support National HIV programming, as well as Trinidad & Tobago's reporting for the UNAIDS GAM Report (Indicator 8), and the Caribbean Regional Strategic Framework. The outputs of this MOU allowed Trinidad & Tobago, for the first time in its history of reporting, to a submit data on HIV expenditure to UNAIDS GAM Report. This is a milestone the National AIDS Coordinating Committee has long aspired to achieve. The *Global AIDS Monitoring (GAM) Results for Indicator 8.1- 8.3: Analysis Notes and Findings 2019, 2020, and 2021* reports were submitted.

# CENTRES AND INSTITUTES

## Distinguished Visitors

### **Ms Michelle Ash**

Chief Nutritionist & Director,  
Nutrition and Metabolism Department,  
Ministry of Health, Trinidad & Tobago

### **Ms Yolande Benjamin**

General Manager Finance,  
Eastern Regional Health Authority (ERHA),  
Ministry of Health, Trinidad & Tobago

### **Mr Shamead Bhim**

Manager Financial Accounting,  
Southwest Regional Health Authority (SWRHA),  
Ministry of Health, Trinidad & Tobago

### **Mr Gerren Collymore**

Manager,  
Tobacco Control Unit (TCU),  
Ministry of Health, Trinidad & Tobago

### **Ms Nicole Gokool**

Director,  
Trinidad Public Health Laboratory (TPHL),  
Ministry of Health, Trinidad & Tobago

### **Dr Abdul Hamid**

General Manager,  
Primary Health Care, North Central Regional Health Authority (NCRHA),  
Ministry of Health, Trinidad & Tobago

### **Mr Veejai Heera**

Manager Cost Accounting and Budgeting,  
North Central Regional Health Authority (NCRHA),  
Ministry of Health, Trinidad & Tobago

### **Mr Ian Ho-A-Shu**

Senior Health Specialist,  
Social Protection and Health Division,  
Inter-American Development Bank, Trinidad & Tobago

### **Dr Lisa Jaggernaut**

Research Department Specialist,  
Ministry of Social Development and Family Services (MSDFS),  
Trinidad & Tobago

### **Mr Lawrence Jaisingh**

Director, Health Policy, Research & Planning (HPRP),  
Ministry of Health, Trinidad & Tobago

### **Mr Derek Kunaka – JSI/CHISU**

Director,  
Health Information Systems,  
CHISU, International, Washington DC

### **Mr Farz Khan**

Director,  
Chemistry Food & Drugs Division (CFDD),  
Ministry of Health, Trinidad & Tobago

### **Ms Risa Khan**

Policy Development Specialist,  
Health, Policy, Research and Planning (HPRP),  
Ministry of Health, Trinidad & Tobago

### **Mrs Mala Kowlessar-Tagallie**

Legal Advisor,  
Ministry of Health, Trinidad & Tobago

### **Dr Anthony Parkinson**

Director of Health,  
Northwest Regional Health Authority (NWRHA),  
Ministry of Health, Trinidad & Tobago

### **Dr Annmarie Phillip-Hosein**

Deputy Director,  
Veterinary Public Health Unit (VPHU),  
Ministry of Health, Trinidad & Tobago

### **Mr Carlisle McKay**

Manager,  
Solutions Development & Implementation,  
Ministry of Planning and Development (MPD),  
Trinidad & Tobago

### **Mr Ashvini Nath**

Manager,  
Mental Health Unit,  
Ministry of Health, Trinidad & Tobago

### **Dr Roshan Parasram**

Chief Medical Officer,  
Ministry of Health, Trinidad & Tobago



**Mr Seon Raymond**

Director,  
Social Investigations Division,  
Ministry of Social Development and Family Services (MSDFS),  
Trinidad & Tobago

**Mrs Isele Robinson-Cooper**

Programme Officer,  
United Nations Development Programme (UNDP),  
Trinidad & Tobago

**Dr Karmesh Sharma**

Epidemiologist,  
Ministry of Health, Trinidad & Tobago

**Ms Anesa Siboo**

Principal Pharmacist,  
Pharmacy/Drug Inspectorate,  
Ministry of Health, Trinidad & Tobago

**Ms Grace Sookchand**

Manager, EPI Unit,  
Ministry of Health, Trinidad & Tobago

**Dr Jeanine St Bernard**

County Medical Officer of Health,  
Ministry of Health, Trinidad & Tobago

**Dr Michelle Trotman**

Thoracic Medical Director,  
Caura Hospital, Trinidad & Tobago

**Ms Elizabeth Villaruel**

Deputy Director,  
Social Welfare Division (Ag.),  
Ministry Social Development and Family Services (MSDFS),  
Trinidad & Tobago

**Ms Stephanie Watson Grant (DrPH)**

Deputy Director,  
CHISU, International, Washington DC

# CENTRES AND INSTITUTES

## **Institute for Gender & Development, St. Augustine Unit (IGDS SAU)**

### *Director's Summary*

The academic year 2022/2023 marked another year of transition for the IGDS St. Augustine Unit. In sync with the larger St. Augustine Campus, the Unit returned to full face-to-face operations after health authorities and risk managers determined that the risks posed by the COVID-19 pandemic were significantly reduced. Students and staff adapted to a shift in operations, familiar for some and unfamiliar and anxiety-inducing for others. Many students expressed a continued desire for remote teaching and learning; however, due to accreditation requirements set for The UWI, the Unit could not accommodate this option. Students also contended with in-person exams and the pressures of such a setting and expressed their struggles to adapt. Significantly, many students functioned in a persistent state of financial uncertainty as they confronted the impact of the pandemic on their lives and livelihoods and their capacity to pursue tertiary education as a priority.

The staff of the IGDS continued to meet the demands of the Institute and the Campus to ensure business continuity in times of uncertainty. They demonstrated a commendable adaptive capacity to persist with continuous communication through regular meetings and other forms of communication. Staff pursued IGDS mandates with solid commitment.

This report details the range of actions and interventions that demonstrate the collective commitment to the business continuity of the IGDS Unit even while confronting limiting conditions, such as financial contractions, health insecurity and climate insecurity. Also outlined are significant developments over the past year that build on the Unit's teaching, research and outreach work.

Sustainable impact in key stakeholder communities, both within and outside the Campus community, was achieved through significant collaborations and partnerships. The approach was to centre the IGDS through partnerships with Campus colleagues, including the Faculty of Food and Agriculture, the Faculty of Science and Technology, Marketing and Communications, the Division of Student Services and Development (DSSD), the Guild of Students and more. Whether at the nexus of gender justice and climate change, gender justice and sexual harassment, gender justice and food security, gender justice and leadership, or more, the Unit reinforced the significance of its analytical and innovative capacity. The Triple M Strategy—Mainstreaming, Mentorship and Movement Building—served as the catalyst or maneuvering force of all intersecting actions, including curriculum innovations, collaborative pursuits of grants and consultancies, collaborative approaches to public education and capacity building, to name a few.

In its ongoing commitment to enhancing strategic partnerships and collaborations with the Unit's Gender Advisory Board, Board of Studies and stakeholders both internal and external to the UWI, the Unit received invaluable advice, guidance, sponsorship and income-generating opportunities for the office relocation and renovations, its public advocacy, and its research and knowledge production. Regarding its transition to a new office space, the Unit saw a change in the executing agency on the St. Augustine Campus responsible for facilitating this transition. Multiple levels of negotiation with this agency, The Campus Projects Office, and the Campus Bursary were undertaken to clarify the renovations' scope, focus and purpose and justify all financial investment in this process. The academic year ended with an approved budget but a stalled procurement process due to the Trinidad & Tobago procurement law change. The tendering process is expected to be executed in the last quarter of 2023.

As was the case for 2021/2022, the significance of the Unit's continued work on curriculum and pedagogical review and development remains pressing. Continually, all plausible innovations are needed to facilitate student access, enrolment and throughput in times of insecurity (primarily economic). Staying relevant during 2022/2023 included working with regional colleagues to harmonise graduate courses and cross-campus offerings of undergraduate courses and to continue developing an innovative new structure for an online graduate programme. As the report outlines, in collaboration with the Office of Online Learning, the Unit successfully created its first Massive Open Online Course (MOOC) titled *Powerful Women and the Principles of Feminist Transformative Leadership*. This course has extended the Unit's presence in the market, reaching over 80 countries, though the financial return has been modest. A second MOOC, *Gender, Climate Justice and Food Systems Resilience*, created in collaboration with the Faculty of Food and Agriculture and the Faculty of Science and Technology, along with colleagues at the IGDS Mona Unit and the Office of Online Learning, is in the final stages of preparation for launch.

During the 2022/2023 period, there were modifications to teaching staff following **Dr Gabrielle Hosein's** approval of sabbatical leave for the academic year. Part-time staff assisted with the undergraduate course load, while full-time colleagues **Dr Angelique Nixon** and **Dr Sue Ann Barratt** were each responsible for full course loads at the graduate level, with some undergraduate courses remaining on their agenda.

**Dr Sue Ann Barratt, Director**

## Anniversaries, Achievements & Awards

**Professor Emeritus Rhoda Reddock** is re-elected as a Member of the Committee on the Elimination of Discrimination against Women (CEDAW) as of 1 January 2023 and up to 31 December 2026. She is one of a total of 151 experts that has served as members of the Committee since 1982.

**Dr Gabrielle Hosein** Senior Lecturer, Institute of Gender and Development Studies, The UWI St. Augustine Campus was awarded The Medal for the Development of Women, Gold for her work in the sphere of public education and advocacy. This is an annual National Award of Trinidad & Tobago and hosted by the Office of the President on Republic Day, Saturday 24 September 2022.

**Dr Sterling Frost**, the Chair of the IGDS Gender Advisory Board was recognised with Trinidad & Tobago's highest award - The Order of the Republic of Trinidad & Tobago for Distinguished and Outstanding Service, in the spheres of banking, education and community service. He is Professor of Practice, The UWI St. Augustine Campus.

**Dr Tivia Collins** was awarded with high commendation for her PhD Thesis on Guyanese Women Migrants in Trinidad & Tobago. **Ms Psyche Gonzales** has been awarded a distinction for her MSc research on the First Peoples in Arima focusing on women's stories and ethnographic research.

The SAU gave two awards for **Outstanding Work and Research** to Tivia Collins and the other for **Extraordinary Performance** to Psyche Gonzales at the Graduation Celebration. This event also celebrated the students who successfully completed minors in Gender studies. Eight students completed minors in Gender. Other tokens and gifts were distributed to all students.

# CENTRES AND INSTITUTES

## Academic Improvements

### *Transformative Impact*

Since 2016/2017, IGDS SAU has been aligning its mandate with the IGDS 3Ms, which are aligned with the UWI Triple-A Strategy. The IGDS strategic goal of Transformative Impact (TI) develops the Institute's existing strategic vision as it was crafted over the past five years – 3M's: Mainstreaming, Mentorship, Movement Building. Flowing from this are the IGDS Streams which structure the operationalisation of the Unit's mandates with an emphasis on measurability as the basis of continuity and sustainability.

In keeping with the new business culture of the UWI, the IGDS has modified how members of the Institute think of its impact in society as a feminist research institute dedicated to knowledge development and transfer, and how the Institute articulates that impact through quantifiable outcomes that can be monetised where possible, in turn building the continuity and sustainability of the institute.

Transformative Impact, as the language of social innovation, enables the IGDS to remain grounded in its legacy while proactively responding to the business bottom-line, i.e. income generation and profitability, agility and innovativeness within the market environment, and affordability of internal processes to achieve continuity and sustainability.

### *Mainstreaming, Mobilisation and Mentorship*

The SAU staff rebranded the Unit's vision and mission in the context of the UWI Strategic Plan. The 3 M's – Mainstreaming, Mobilisation and Mentorship - together encompass the past and current work of the IGDS and harmonise the SAU's commitment to the principles of the mission and vision of the IGDS with the strategic plan of the UWI. They provide the basis for the SAU's operational planning.

**Mainstreaming** refers to the IGDS mandate to integrate a

gender analysis into the university's policies, human resources management, teaching, research and outreach, as well as the work of the state and civil society. The larger work of the IGDS outreach is documented in the Outreach section below but it must be noted that an impactful mainstreaming innovation of the IGDS is The Caribbean Review of Gender Studies (CGRS).

**Mentorship** refers to the IGDS' commitment to providing social justice analysis and training, as well as opportunities for feminist leadership, to another generation of students, activists and members of diverse and marginalised communities. Some examples of IGDS' mentorship include our flagship activities such as the undergraduate mentorship programme, IGDS IGNITE and the annual The IGDS Reach for Rights Camp.

**Movement-building** refers to the IGDS' responsibility to provide support to feminist and LGBTQIA movements and pro-feminist men's organising, as well as state agencies engaging in transformative policies and programmes through teaching, research, facilitation, fundraising, provision of technical expertise, *inter alia*. IGDS's most impactful movement-building strategies include the IWD March and Rally, the Sexual Culture of Justice project and the Break the Silence Teacher Training Toolkit.

### *The Seven IGDS Streams*

1. IGDS Reach - One-week feminist camp for another generation of activists, intended to begin feminist consciousness- raising and increase awareness of gender prior to students enrolling at The UWI.
2. IGDS CV+ - Graduate studies development strategy aimed

at increasing job skills while grounding St Augustine graduate students in women's leadership in regional revolutionary movements.

- Vision - facilitating regional connection.
- Voice - increasing public engagement.
- Capacity - student development and training.

3. IGDS Next - Workshops for high school students intended to begin feminist consciousness- raising and increase awareness of gender prior to students enrolling at The UWI. Led by graduate and undergraduate students.
4. IGDS Ignite - Undergraduate mentorship programme, involving activism, events, field trips and other activities. Now a registered student club, Ignites has grown to include the offshoot project CatCalls of UWI.
5. IGDS Gold - Engagement to build and strengthen relationships with IGDS St Augustine alumni.
6. IGDS Impact - An explicit focus on identifying the impact of IGDS St Augustine research and outreach and building IGDS brand visibility.
7. IGDS Future Fund - Fundraising for future needs along with our alumni and allies in the community.

### Administrative Improvements

The academic year 2022/2023 was an intake year for the IGDS SAU Graduate Diploma and MSc programmes, and the usual rolling admissions for the MPhil/PhD programmes. Low enrolment due to a range of factors including lack of funding for graduate studies (through GATE) has adversely impacted graduate programmes across the University. IGDS received a reduced number of applicants and began the academic year with a small new cohort of six students, who joined with continuing students.

The Unit continued to support returning students through various challenges - personal and academic many of which were rooted in the pandemic. The return of face-to-face courses and delivery brought various challenges, but it was also a welcome transition back to the classroom experience for the graduate students who started the programme with online delivery.

The Unit is pleased to report the successful throughput and graduation of six students – with one PhD student completing with High Commendation and one MSc student completing with a Distinction. Three students accepted the postgraduate diploma after not being able to complete the MSc project. This remains a good way of supporting students to graduate who completed coursework but were unable to complete a project or internship.

At the end of this academic year, a total of 28 students were registered in the graduate programmes - 2 Diploma, nine MSc, seven MPhil, and 10 PhD Graduate Research Seminars were completed in May 2023 with two PhD and two MSc students presenting their work. This academic year, the Unit continued the regional graduate workshop sessions, spearheaded by the **Dr Dalea Bean**, Graduate Coordinator at the Regional Coordinating Office with successful engagement and attendance.

Additionally, the SAU graduate studies coordinator held sessions to facilitate student support and feedback focusing on: Orientation session.

End of Semester check-in sessions and troubleshooting with the new and continuing students, especially around course performance and completion, and continued registration and support for completing students.

# CENTRES AND INSTITUTES

Graduate student check-ins to review their progress, discuss performance and research, future plans, and pathways to completion.

MSc continuous assessment meetings for research projects.  
Individual check-ins as needed.

**Dr Angelique Nixon** spearheaded coordination of graduate studies this academic year with continued efforts for regional harmonisation and chairing the regional graduate sub-committee. Curriculum review at the graduate level will commence formally as the RCO continues efforts to lead the IGDS on regional harmonisation and programme revamping to meet changing environments.

## *MOOC Development*

### **Powerful Women and the Principles of Feminist Transformational Leadership**

This MOOC was launched as a collaboration between the St Augustine and Mona Units of the IGDS, on 26 September 2022 and as of 21 May 2023 has had 391 joiners from 81 countries worldwide. The course has earned a total of six upgrades generating gross revenue of £450, 70% of which the IGDS receives from FutureLearn in quarterly payments as upgrades are purchased by students.

### **Gender, Climate Justice and Food Systems Resilience**

The proposal for this MOOC was approved by the Office of Online Learning on 27 October 2022, and partnerships with the Faculty of Food and Agriculture, St Augustine (FFA) and IGDS Mona Unit were established by December 2022 for development. Development is in its final stages with all audio and video recordings completed and course building in progress. Launch of the course is expected in June 2023. Based on the synergy of agro-ecological and ecofeminist approaches

and the Unit's partnership with the Faculty of Food and Agriculture, the proposal from **Dr Barratt** and **Ms Rachel Sukhu** outlines the ways in which the IGDS is harnessing the power of space and place through the establishment of a community garden to promote gender, climate and food justice. The paper was well received and as a result of the presentation:

- i. there is the potential to partner with the Ministry of Social Development and Family Services in keeping with the Ministry's food security initiatives.
- ii. through the Ministry of Planning the Unit is in contact with the Office of the United Nations Resident Coordinator for potential funding opportunities.

## *Staff and Student Education*

### *Capacity Building on Sexual Harassment*

This initiative is a partnership between the IGDS with the Centre for Excellence in Teaching and Learning (CETL), the Sexual Harassment Secretariat, the Marketing and Communications Office, and Campus I.T. Services (CITS). A proposal for the project is still being developed but the initiative is being planned in phases and will include outward facing elements as well as asynchronous online short courses with universal design to accommodate students and staff. It is intended to support the work of the Sexual Harassment Secretariat and serve the needs of the University community across all campuses. It will:

- i. educate and raise awareness on sexual harassment addressing typical challenges around its definition with a title such as 'Was that sexual harassment?'
- ii. provide clarity around the UWI Policy on Sexual Harassment and its procedures, and to increase engagement by those who need to use it.
- iii. position the IGDS and The UWI as exemplars in addressing this form of gender-based violence.
- iv. generate income through an outward facing asynchronous online course.

### *IGDS Outreach Short Courses*

#### *Short Course - Social Policymaking: Gender Equity, Diversity and Inclusion for the 21<sup>st</sup> Century Workplace*

Social Policymaking: Gender Equity, Diversity and Inclusion for the 21<sup>st</sup> Century Workplace took place 27 March - 01 April 2023. The course was delivered by a number of facilitators and attracted 21 participants. IGDS will be able to declare a TT\$4,000 net profit.

#### *Short Course - Data Collection and Analysis for Organisational Needs: Strengthening Data Responses with the TTDF*

The Trinidad & Tobago Defence Force approached the IGDS Outreach and Research desk to design a data collection short course to be offered across all formations of the TTDF. This course took place over four days in May 2023. IGDS SAU will be able to declare a \$30,000TTD net profit on completion.

## Research

### *Programme to End Violence Against Women and Girls SPOTLIGHT INITIATIVE PROJECT 1 – Assessment and Alignment of the Health and Family Life Education (HFLE) Curricula and Teacher Training - US\$94,053*

October 2020 - June 2022

This project aimed to prevent family violence by assessing and updating the current Primary and Secondary School Health and Family Life Education (HFLE) curricula to ensure life skills around sexual and reproductive health and family violence is well integrated. Specifically, the project assessed the current primary and secondary school HFLE curricula against international standards, and the Break the Silence toolkit.

The IGDS collaborated with the School of Education at the UWI St Augustine Campus, and three education/curriculum and HFLE experts. The project activities commenced in October

2020 and ended on 30 June 2022, across three geographic regions: Tunapuna/Piarco, Rio-Claro/Mayaro and Tobago.

Between November 2020 to January 2021 the project team focused on reviewing and assessing the current curricula to identify the gaps of family violence.

From February to May 2021 the team edited and updated the existing curricula to create a revised age-appropriate curricula that included family violence in line with international standards.

Following the receipt of feedback from the Ministry of Education in December 2021 and three stakeholder consultations involving 151 attendees, training of HFLE master trainers took place in June 2022.

At the end of the project the following outcomes were expected:

- To create and disseminate a revised age appropriate HFLE curriculum for both the primary and secondary school level.
- To increase awareness of family violence and comprehensive sexuality education amongst teachers, principals, key stakeholders and parents.
- To equip and strengthen the capacity of teachers and principals in three geographic areas (Tobago, Piarco/Tunapuna and Rio Claro/Mayaro) with the necessary tools to deliver the revised HFLE curriculum in the area of family violence.
- An increase in the number of trained HFLE teachers in the three geographic areas.
- An increase in advocacy for strengthening and mandatory implementation of the HFLE curriculum in schools to advance gender equality and empowerment.

# CENTRES AND INSTITUTES

SPOTLIGHT INITIATIVE PROJECT 2 – Design and implement an outreach intervention for Male leaders and Faith-Based Leaders/Influencers as champions of gender equality with zero tolerance for family violence (US\$75,000)

April 2021 – June 2022

The specific purpose of this project is to build a cadre of male and faith-based community leaders in each of the three regions - Tunapuna/Piarco, Rio-Claro/Mayaro and Tobago, who will serve as champions of gender equality with zero tolerance for family violence.

This will be done by

1. training 120 men using two community-based interventions: the Partnership for Peace (PfP) Batterers Intervention Manual and the UN Women Foundations Programme Methodology for preventing GBV, and
2. designing and implementing an outreach and awareness intervention among men and boys and Faith Based Organisation (FBO) leaders in response to family violence.

The training was to be conducted across two Cohorts over a six-week period (two sessions per week). Cohort 1 had a total of 21 men (Age Range: 30 – 65) who were trained during April and May 2021 and who were then to roll out their community outreach plans. Cohort 2 had a total of 16 men (Age Range: 23-65) who were trained from September 2021 to November 2021 and who were also expected to roll out their community outreach plans.

To remedy the numbers, with the support of UNFPA and the Spotlight Initiative, researchers conducted one-hour sessions led by graduates of the cohorts. These workshops increased the reach of the project to 70 graduates. The programme was scheduled to end in June 2022 having reached the target of 120 men.

Regional Spotlight Programme Intervention to Create an Intersectional Caribbean Model of Behavioural and Cultural Change

March 2021 - June 2022

This project was developed in cooperation with CSO partners. It was a collaborative project funded by UNFPA Regional Office and UNICEF Regional Office. The executing agencies were the IGDS (implementing partner), CariMAN and the Caribbean Alliance of National Psychological Associations (partners).

The objective of this programme was to develop a model specifically tailored to the Caribbean and that addresses the identified gaps in prevention programming in the region. The model will serve as a foundation for the Regional Spotlight Initiative Communication for Development (C4D) interventions, but also function as a conceptual framework for the design of other Caribbean sustainable social change interventions to prevent violence against women and girls (VAWG) across the region.

Development of the model involved identifying and analysing harmful gender norms in the Caribbean and examining how these norms developed, in order to identify strategies to change them, as well as identifying positive gender norms that can be strengthened in order to guide future interventions. The model takes a lifecycle approach, so that it can be used to guide behavior change interventions targeting men and boys at different stages of life from childhood to old age.

Development of the model therefore required an analysis of *influencers* (factors and figures) that influence men and boys in the Caribbean during different stages of their lives, and the shifting levels of influence that these persons and factors have on their behavior throughout the lifecycle.



This project commenced in March 2021 and was scheduled to end in June 2022 with the creation of the model and accompanying communication strategy.

### IGDS Lunchtime Seminar Series

This series began in 1998. In 2022/2023 the series is dynamic, taking place both face to face and virtually on zoom. The events draw participants from the Campus and the local community as well as, from across the region, the diaspora, and internationally. During the past year the topics covered issues and conversations surrounding Climate Change and Climate Actions, Copyright, Child Sexual Abuse and Gender-Based Violence.

### Outreach

#### Break the Silence Partnerships with Bankers Association of T&T & Pan American Development Foundation

##### **Break the Silence: End Child Sexual Abuse (BTS: ECSA)**

In 2022/2023 the work of the Break the Silence project received a significant boost with the signing of the IGDS BTS–BATT MOU. This saw the BTS receiving TT\$450,000 from the Bankers Association of Trinidad & Tobago. Within the working of the MOU, the project entitled Filling the Gaps: Evidence-Based Advocacy to End Child Sexual Abuse and Gender Based Violence was launched. Phases 1 and a part of Phase 2 of the initiative were undertaken by 31 May 2023. In addition to their new partners, BTS was also approached by the PADF to partner with them in the delivery of a significant train the trainers programme to build capacity of persons working with Spanish language migrant communities to use the Spanish Language and English Language toolkits, originally developed by the IGDS and PADF in 2020–2021.

#### *Phase 1 - IGDS/PADF Break the Silence Ongoing Project Expansion-IGDS Break the Silence/Bankers Association of Trinidad & Tobago MOU*

##### **Official acknowledgement of the Oversight Committee and the MOU and the launch of the Bilingual Toolkit – 23 November 2023**

An Oversight Committee was established to oversee the roll out of the IGDS BTS/BATT MOU. The committee provides a layer of transparency to the design and implementation of the phases of work specific to the MOU. It is also an important deliberative space for national partners and internal UWI stakeholders to bring their sectoral insights into components of the MOU roll out.

Members include the following:

- The Bankers Association of Trinidad & Tobago
- The Children’s Authority
- UWI Behavioural Sciences Department
- UWI School of Education
- National Family Services Division
- Tobago Representative
- Professor Rhoda Reddock as Advisor
- Other Civil Society partners.

##### **BTS Commemorations April Child Abuse awareness Month 2023**

- Special LTS **“Understanding Silence and Child Sexual Abuse”** April 2023
- Panel Discussion entitled, **“Child Sexual Abuse Interventions: How Far have we come and where are we now?”** 20 April 2023, School of Education Auditorium. Designed to highlight sectoral responses to the multi-faceted nature of CSA, and to map a possible way forward in how multiple stakeholders can collaborate to develop integrated approaches and intervention strategies across stakeholders.

# CENTRES AND INSTITUTES

- Capacity Building as data collection, with Trillium International School, Chaguanas. An interactive workshop for students and teachers served as a point of data collection to support the building of evidence-based project responses to the new and emerging facets of Child Sexual Abuse, a form of Gender-Based Violence.

## *Phase 2 Research and Data Collection*

May – July 2023 the IGDS BTS/BATT will enter a new phase of activity. The project will undertake a number of focus groups and desk research activities towards the mapping of an understanding of men's and boys' perceptions and framing of CSA. Additionally, the desk research will provide a sectoral overview of responses to CSA in Trinidad & Tobago. This work will be used to inform the media, marketing and branding of knowledge products deliverables to be produced in the final phases of the MOU.

## **Pan America Development Foundation (PADF) – March 2023**

The Pan America Development Foundation reached out to the IGDS towards the facilitation of a series of workshops for their partner organisation the Roman Catholic Archdiocese Ministry for Migrants and Refugees (AMMR). This Alternative Care programme will launch its community-based initiative in 2023. This involves the training of members who work intimately with Spanish-speaking migrant communities across Trinidad & Tobago. Workshops are carded to begin in June 2023.

## **Scholarly Engagement with the BTS**

January–February 2023 - Visiting Scholar Keisha V. Thompson, PhD Associate Professor, Psychology of the Department of Behavioural Sciences, Kingsborough Community College,

CUNY, used part of her Sabbatical to work with the BTS staff, on the development of a Safe Space Module to enhance the content of the BTS. Some of this Safe Space Module will be integrated into the Facilitators Guide, while a workshop module developed by Dr Thompson will inform the development of a short course.

## **Framing the Way Forward for the BTS**

The BTS project is a critical growth point for the IGDS. A number of opportunities are useful as we map a future for this initiative. These include, and are not limited to the following:

- BTS as a space where scholars work with the IGDS to build multi-disciplinary content around the issue of CSA and GBV
- A pivotal sectoral leveraging point, to inform policy responses to CSA.
- An opportunity for young staff of the IGDS to enhance their skills in workshop design, manual content creation, facilitation and research.
- Collaborative curricula development points of engagement for both UWI-based and external partners to frame GBV and CSA

## **Gender and Climate Change Collaboration**

(Ongoing)

### *Fondes Amandes Community Reforestation Project*

In keeping with the mainstreaming and movement building mandate, IGDS Outreach and Research Team partnered with the Fondes Amandes Community Reforestation Project (FARCP) on a Commonwealth Foundation funded Gender and Climate Change initiative. IGDS provided technical assistance to support FARCP's fulfilment of its major project deliverables to the Commonwealth Foundation until April 2021.

Building on the collaborative work between the IGDS and the FACRP, in May 2021 the IGDS assisted the FACRP in applying for a grant from the United States Forestry Department, Natural Infrastructure for Caribbean Resilience (NICaR) programme, to develop a Phase 2 intervention to further institutionalise the place of the Draft Climate Change and Mitigation Policy on Civil Society-Led National Bush and Forest Fire Policy (NBFFP). Based on this proposal three major deliverables were forthcoming from the Phase 2 of this initiative. These included the following:

- A finalised Civil Society-Led National Bush and Forest Fire Policy
- A Gayap Toolkit
- A series of sectoral and legal consultations on the development of a comprehensive policy response to bush and forest fires within the context of Climate Change.

## Project Resource Development and Partnerships

**IGDS support and global activism** – IGDS SAU where possible continues to support the work of the FACRP in the advancement of the Indigenous Peoples of the Caribbean initiative.

### **Growing the IGDS SAU's Environmental Profile Kalamazoo Study Abroad Programme<sup>1</sup> Revision**

*A Project based Approach*

*– Prioritizing Sustainability and Climate Change*

Instead of a series of courses being offered across the Faculty of Social Sciences and the Institute for Gender and Development Studies, the Kalamazoo Study Abroad Programme will take on a project based, community engagement approach teaching and learning. Building on the IGDS' ongoing collaboration with the Fondes Amandes Community Reforestation Project (FACRP), the K College students will access terrestrial-based climate learning based on the FACRP current Field School model. FACRP

has indicated a willingness to partner with the IGDS, to engage the Kalamazoo College group for a period of three weeks. The FACRP Field School is designed to expose participants to local climate-based challenges, and their ongoing development of Small Island Developing States (SIDS)-based, indigenous responses to the current climate crisis which currently shapes our existence.

To ensure that the programme is truly a holistic, national engagement, the project team has also reached out to the Environmental Research Institute Charlotteville (ERIC) to be our partner, based in Tobago. ERIC's coastal zone management and coral rehabilitation work are ideal in offering students insight into water-based management of climate change. ERIC2 has indicated a willingness to host the K College students for a period of 2 weeks. The teaching and learning will be anchored in the IGDS-based final year, undergraduate course- Gender and Development with Reference to the Caribbean GEND 3039. GEND 3039 will be used as a 100% course work shell to provide the required framing for the K College credit - related demands.

Based on this new programme format students will engage as follows

- 1 week in the classroom for course and content orientation
- 3 weeks FACRP Field School
- 2 weeks ERIC
- 2 weeks project write up and course summaries and practical connections.

# CENTRES AND INSTITUTES

## My Caribbean Climate Action Campaign

This campaign was launched on 26 April 2023 at the FFA's Earth Day 2023 Sustainable Seeds of Survival Fair held at their Market Place at the Dudley Huggins Building, St Augustine. We are partnering with the FFA for this year-long campaign, to #InvestInOurPlanet – the theme of Earth Day, 22 April 2023.

## Strategic Review

Since 2016-2017, IGDS SAU has been working to align its goals with those of UWI through the IGDS 3Ms, which are also part of the UWI Triple A Strategy. This strategy aims to improve the financial sustainability of the University. The IGDS focuses on achieving the UWI's strategic goals, particularly by addressing financial challenges through Operation Revenue Revolution 75+ (RR75+), which builds on the Triple A Strategic Plan. This plan guides the University's mission and outlines a new operational strategy to tackle revenue shortfalls.

The UWI Triple A Strategy, spanning from 2017 to 2022, emphasizes the university's vision of excellence and its mission to advance learning and innovation. It is grounded in core values like integrity, excellence, gender justice, diversity, and student-centeredness. The strategy focuses on three pillars: Access (AC), Alignment (AL), and Agility (AG).

The IGDS SAU has its own strategic goal of Transformative Impact (TI), which involves Mainstreaming, Mentorship, and Movement Building (3Ms). These align with the UWI Strategic Plan and guide the IGDS's operations. Mainstreaming involves integrating gender analysis into various university activities and societal work. Mentorship focuses on providing social justice training and leadership opportunities. Movement Building supports feminist and LGBTQIA movements and transformative policies.

The IGDS emphasises interconnectedness in its priorities and aims to appeal to the market through integrated approaches. It focuses on teaching and learning, research and publications, outreach and advocacy, and service as core elements. These elements define the IGDS's product and marketability. IGDS branded streams further clarify its interventions and expected outcomes. The projects below are in keeping with the goal of Transformational Impact within the context of the University's Strategic Plan.

### Child Marriage and Early Unions Research

- Activities: Research and data collection on women's movement involvement in Child Marriage and Early Unions across six countries.
- Status: Report completed, manuscript in progress.
- Project Value: US\$143,000.
- Objectives: AC2

### Health and Family Life Education Curriculum Revision

- Activities: Revision of curriculum to include GBV for primary and secondary levels.
- Status: Revision completed; outreach ongoing.
- Project Amount: US\$94,000-43+source.
- Objectives: AC2

### Caribbean Model of Behavioural and Cultural Change

- Activities: Literature review and development of a Caribbean Model of Behavioural and Cultural Change.
- Status: Ongoing.
- Project Amount: US\$75,000.
- Objectives: AC2

**Building Gender Responsiveness in Electrical and Computer Engineering**

- Activities: Curriculum review, innovation, outreach, and research.
- Status: Second workshop scheduled for 14 September 2023.
- Objectives: AC3, AG4

**National Bush and Forest Fire Policy & Gender & Climate Change Project**

- Activities: Support to FACRP, finalizing National Bush and Forest Fire Policy, workshop design and development.
- Status: Ongoing, funded by NICaR.
- Project Funding: US\$60,000
- Objectives: AC2, AC3, AL2

**Gender-Sensitive Land Use and Forestry Case Studies**

- Activities: Co-hosting workshops, research and development of case studies.
- Objectives: AC4, AL2

**Virtual Lunchtime Seminar Series**

- Activities: Series of seminars on various gender and development topics.
- Objectives: AC2, AC4, AL1, AG5

**Gender Mainstreaming Roadmap in the Commonwealth of Dominica**

- Activities: Institutional and regulatory review, draft and final roadmap development, capacity-building workshops.
- Status: Ongoing.
- Project Value: US\$35,000

These projects represent a diverse range of initiatives aimed at mainstreaming gender issues, capacity building, knowledge production, and advocacy, reflecting the broad scope of IGDS's strategic objectives.

# CENTRES AND INSTITUTES

## Institute of International Relations (IIR)

### Director's Summary

The academic Year 2022/2023 was significant in the history of the Institute of International Relations. The major matters dominating the agenda of the IIR include:

#### *Budgetary Matters*

In 2019 – 2020, the budget of the IIR was dramatically reduced by 90 percent to TT\$1 million. In the approved budget estimates for 2020 – 2021, the funding was further reduced by 10 percent to TT\$900,000. The Institute managed on its savings and reserves until December 2022 by which time this had been exhausted.

Importantly, informal consultations took place between IIR and Trinidad & Tobago government actors, specifically the Minister of Foreign and CARICOM Affairs and the Minister of Finance and follow-ups with the Minister of Education. Deepest gratitude to IIR staff who contributed directly and indirectly to the lobbying efforts. This was consolidated by the formal interventions of **Professor Rose-Marie Antoine**, Principal and Pro-Vice Chancellor of the St. Augustine Campus with the Ministers of Finance and Education on the restoration of funding to the IIR. We wish to thank Professor Antoine for her support of the Institute. We are also very grateful to our Dean, **Dr Acolla Lewis-Cameron** for her advice and support of the IIR's efforts throughout the process.

Noteworthy, is the receipt of correspondence, dated 6 February 2023 from the Minister of Education, based on the Minister of Finances' directives that the IIR's allocation would be increased to \$TT9 million for the year 2023. Despite this announcement, and the interim financial provisions which had been made for

the IIR by the UWI St. Augustine Campus, the IIR continued to be financially conservative in its spending during the reporting period.

#### *Processes related to the Vice-Chancellor's Task Force to discuss the way forward for the IIR.*

A Task Force was mandated by Vice-Chancellor Sir Hilary Beckles on July 25, 2022, to discuss and chart a way forward for the IIR, in light of its severely depleted funds. At its first meeting of 26 August, three working groups were set up to discuss the details for the work of the Task Force. Task Force and Working Group meetings lasted from August 2022 - March 2023. The main agenda of Working Group One was to deliberate on the structure and management of a "Centre", the governance structure recommended for the IIR by the Task Force, at its first meeting.

A stakeholder consultation was conducted with both internal and external actors in partial fulfilment of the mandate of Working Group (WG) One. The main objectives of this exercise were to identify gaps and needs in the market for the IIR and to suggest funding options and ideas for revenue generation. All interviewees were familiar with and had varying degrees of involvement in the affairs of the IIR. They also had sound experience, knowledge/expertise, and prolific careers in the field of International Relations. Unquestionably, all interviewees agreed on the significance and importance of the Institute to The University of the West Indies and beyond. They also noted that the IIR has a competitive advantage in the areas of international studies, foreign policy, and diplomacy, compared with similar institutions in the region. However, it was noted that the regional profile of the IIR had been eroded over time.

The deliberations of Working Group One drew heavily from the findings and recommendations of the 2021 Quality Assurance Review (QAR) report, including the restoration of the government subvention, at least in the short term. The findings of the stakeholder report were also reflected in report of Working Group One. The Working Group recommended that the restoration of funding should be prioritised because new or revised governance arrangements would not solve the funding challenge. Simultaneously, the restructuring of the IIR should be aligned with the recommendations of the QAR report, including exploring alternative sources of funding and revenue generation.

Working Group Two (Human Resource Review) proposed two scenarios for the IIR's restructuring: Scenario One, aimed at adjustments for greater efficiency and Scenario Two, mirroring the "Centre" governance structure, encompassing a significant scaling down of the IIR.

Based on the recommendations of both Working Groups and the pledge from the Government of Trinidad & Tobago to provide the IIR with TT\$9 million for 2023, the Task Force deliberated and made some recommendations on the following areas: The IIR's governance structure, including the membership and operations of the Board of Directors; the relationship between the IIR and the DAOC; and the IIR's overall operations, including revising/re-adjusting certain job specifications.

#### *IIR's revised Programmes*

The IIR maintained full delivery of its three academic programmes and the award of its postgraduate diploma, MSc and PhD degrees. Notably, three PhDs were awarded in the 2022/2023 period.

The IIR's taught programmes underwent a major review which occurred over the period of over four years, receiving approval in May 2022. Among the major revisions include: the Post Graduate Diploma in International Relations was changed to a Post Graduate Diploma in International Relations and Global Studies; The MSc in International Relations was re-introduced and offered alongside the MSc in Global Studies. An important innovation in the revised curriculum is the opportunity for Post Graduate Diploma students to transition to either of the MSc programmes after the first semester, having met the requirements. The MSc programmes will be completed in three semesters rather than two in the previous dispensation. The rationale for the latter is to allow additional time to produce a quality research paper. Following the approval, the IIR spent a significant amount of time and resources fulfilling the various administrative requirements for the implementation of the revised programmes which began in September 2023.

#### *Public Outreach, Research and Profile*

This period was marked by a high number of public events, in-person and online modality of various types, including Diplomatic Dialogues, panel discussions, symposia, special guest lectures among others. These were largely done in partnership with regional organisations, high level officials, the Diplomatic Corps, the private sector, academic institutions, other UWI departments and alumni. There was enthusiastic response from public officials, individuals, alumni and the Institute's regional and international networks. This gesture continues to raise the IIR's visibility as a national and regional repository and distributor of knowledge and helps to attract new local and international students in the following year.

# CENTRES AND INSTITUTES

The IIR's participation continued in the international collaborative research project on Climate Change and Community Responses (via the work of Dr Michelle Scobie). Also, of note is its strategic partnership with the Caribbean Policy Consortium (CPC), a network of academics, policy advocates, public officials and private sector representatives from North America and the Caribbean who work to strengthen United States-Caribbean relations and raise the visibility of Caribbean development concerns in the partnership.

Academic staff have continued to produce high quality and relevant academic and technical publications, and to partner with international organisations and other local and regional entities in preparing technical reports, policy briefs and providing expert advice geared to address the multiple challenges facing the Caribbean and the global community. They have all contributed their expertise to a wide range of online discussions, public lectures and academic conferences.

Importantly, the latter part of the reporting period saw the IIR re-gaining momentum after a period of uncertainty, upheaval and the COVID 19 Pandemic. In sum, the IIR is confronting the current era with determination, energy and a focus on renewal in all its activities.

## *Diplomatic Academy of the Caribbean*

With regard to implementation of its a primary teaching mandate in the area of diplomatic studies, spanning the period 01 August 2022, to 31 July 2023, the DAOC delivered five online training modules. As regards its secondary outreach and advocacy-related function on the nexus between the Caribbean and diplomacy, by way of a series of the Manager's

published works during the said period, the Diplomatic Academy focused particular attention on contributing to and engaging in practitioner and scholarly debates on the ever-evolving geopolitical and international environment.

***Dr Annita Montoute, Director***

## Overview

### *Staff*

#### *Staff Training and Development*

Staff across various sectors participated in a range of training and professional development activities. These included the A.D.V.A.N.C.E program hosted by the Faculty of Social Sciences, occurring in semesters one and two starting from November 3, 2022. Additionally, the IIR Secretariat staff engaged in sessions covering COVID-19 training for cleaners, emergency management and fire extinguisher training, mindfulness-based stress management, and train-the-trainer sessions for OJTs.

Norman Girvan Library staff underwent training in several areas, including CETL Cool Tools in Education, mould remediation and preservation, copyright knowledge provided by the Intellectual Property Office of Trinidad & Tobago, warden training, and teaching software training such as FeedbackFruits Training Series and UWI Online Short Courses in Mathematics and Statistics, covering SPSS Beginner and SPSS Intermediate levels.

#### *Staff Research Output and Scholarly Activity*

During academic year 2022/2023, eight academic staff members accounted for 29 publications, out of which 15 were peer reviewed, as illustrated in the table below. Academic staff members made 33 presentations at conferences, webinars, seminars or public lectures and moderated at six.



Details can be found below.

Peer Reviewed Edited Book	2
Peer Reviewed Book Chapter	7
Peer Reviewed Journal Article	6
Essays and Commentaries	14
Conference Papers and Presentations	33
Conference Chairing Moderating	6
Conference Attended	9

### *Student Matters*

#### *Registration*

There was a slight increase in overall student registration from 67 (2021/2022) to 72 (2022/2023), however, considering the withdrawals in this period, enrolment this year is lower. Many cited personal constraints and work commitments for their inability to cope with the programme. Possible explanations for the general low registration lie in the adverse economic and social impacts of the pandemic which have negatively affected individuals and households. The removal of the Government of Trinidad & Tobago 50 percent GATE fee subvention for its citizens pursuing graduate programmes at tertiary institutions may have also decreased students' capacity to access post graduate education.

The figures illustrate that students continue to be overwhelmingly from Trinidad & Tobago, with about 10 percent being from the region and other parts of the world. Though very few, it is noteworthy that regional and international enrolment has increased from previous years due to teaching via virtual modes. This consideration must inform policymaking on future programmes, their delivery modes and target markets. It is anticipated that student numbers will improve in a post - pandemic environment as the IIR continues to explore effective marketing strategies.

#### *Graduation*

Student throughput in the current period decreased from 2021/2022. During the academic year 2021/2022, the institution awarded six Postgraduate Diplomas and 15 Master of Science (MSc) degrees, out of which nine graduates received their degrees with distinction. In addition, there were four graduates who attained their Doctor of Philosophy (PhD) degrees.

In the following academic year, 2022/2023, the number of Postgraduate Diplomas awarded increased slightly to seven, with three of these graduates achieving distinction and one graduating with merit. The number of MSc degrees awarded decreased to nine, with one graduate earning a distinction and two with merit. During this year, the institution did not award any MPhil or PhD degrees.

The IIR heartily congratulates all graduating students. We wish them all the very best in the future and we hope for continued engagement with them as valued members of our alumni network. Special mention must be made of Dr Lisa Gordon who published her PhD work only one year later with Routledge, a top-tier publisher. Preparations are being made for the PhD Viva of Ms Candia James. Dr James was awarded on 29 September 2023.

#### *Staff/Student Liaison Committee: Student Feedback*

During the last Academic Year, the Staff/Student Liaison Committee met twice: November 2022 and April 2023. The Committee is made up of six persons. It is chaired by Dr Keron Niles, IIR Faculty. One member of the Secretariat and Library are represented, with one student each from IIR's three programmes. The comments of students at the two meetings are as follows:

# CENTRES AND INSTITUTES

## *Inability to/Difficulty Accessing Journal Articles*

The library has indicated that students can use the document delivery system to retrieve articles that may be difficult to access.

## *Mode of teaching*

Students expressed appreciation for the continuation of online classes and the ease of access especially for those from overseas. Similar views were shared last year, including for students in distant parts of Trinidad.

## *MPhil/PhD student supervision*

PhD students stated concerns of feeling isolated from their supervisor on their PhD journey. This matter will be addressed in the new academic year with regular meetings for MPhil/PhD students to discuss their concerns and develop a sense of community. Seminars to assist them on their PhD journey will also be convened.

## Alumni Achievements

**Dr Lisa Gordon** (PhD 2022) launched her book entitled *"International Trade and the Music Industry: Live Music Services from the Caribbean"* on 28 April 2023 at the IIR.

## *Programme Marketing and IIR Visibility*

The IIR academic and administrative staff are cognisant of the ever-increasing importance of marketing the IIR and DAOC programmes and events, especially with the declining numbers during the COVID-19 pandemic and in the immediate post COVID-19 era. The advertisement of public lectures and webinars is executed by Marketing and Communications and by dissemination through the IIR and DAOC networks and mailing lists.

Based on these findings, a key recommendation is the urgent need to update and redesign the IIR website. The IIR is in the processes of sourcing an Associate Professional through the Ministry of Education, Scholarships and Advanced Training Division for one year to re-design the IIR website. In the interim, the IIR expanded and increased the dissemination of programme information throughout the Caribbean region utilizing the IIR's institutional and alumni networks as well as the channels in Trinidad & Tobago, including via the IIR and NGL websites and social media pages, print and radio/television media. Attractive brochures were sent to various Government Ministries of CARICOM countries and beyond and to the IIR's expanded mailing list.

## Curriculum Review

Part of 2022/2023 has been spent tying up the loose ends (such as approval for two new courses) and putting the administrative requirements for the implementation of the revised diploma and MSc programmes for AY 2023/2024. The revised programmes have several innovations.

- First, the Post Graduate Diploma (PGD) in International Relations has been converted to a PGD in International Relations and Global Studies. This change was to resolve the dilemma of having a PGD in international relations yet a Masters in Global Studies and not international Relations.
- Second, under the old programme, one of the requirements for entry into the Master's programme was successful completion of the PGD in IR. With the revised programme, a student has the option of "transitioning" to the MSc in International Relations or MSc In Global Studies after the first semester if an A average is maintained.

- Third, two Masters will now be offered: re- introduction of MSc in International Relations and continuation of MSc in Global Studies.

We are grateful that the process is completed and students applied for the revised programmes. The IIR is very grateful for the sterling contributions of **Dr Michelle Scobie**, Chair of the Curriculum Committee for three years and **Dr Dave Seerattan** who took over during her study leave. The IIR also wishes to acknowledge the contributions of the Diploma and Masters programme coordinators, respectively, **Drs Georgina Chami** and **Michal Pawinski** for their input. We are also grateful for the hard work of **Ms Wenda Rocke** and **Ms Usha Lakhan** for administrative support. The IIR also received tremendous support from the Director and staff of the Office of Graduate Studies and Research, CUTL programme Coordinator **Dr Justin Zephyrine** of CETL and **Dr LeRoy Hill**, Director of CETL. It is important to note that the revisions of the PG Diploma and MSc programmes are closely aligned with many recommendations made in the Quality Assurance Review Report of the IIR which was delivered in March 2021.

#### *Post Graduate Certificates, Multidisciplinary Certificates and Short Courses*

The IIR conducted a survey to determine which courses should be packaged as IIR post graduate certificates and multidisciplinary certificates (a combination of courses from the IIR and other departments); and areas in which short courses should be developed. The survey was completed and analysed and **Dr Keron Niles** led in the development of a post graduate certificate with the support the IIR Secretariat.

#### *Latin American Studies Programme*

The IIR has two courses on Latin America on its books and only one was being taught. An expanded Latin American Studies programme is envisaged at the IIR, in line with the original scope of the Institute's programmes to focus on all aspects of international relations, with specific emphasis on Caribbean and Latin American Studies. Justification for such an initiative can also be found in the recommendations of the 2021 Quality Assurance Review (QAR) Report that the IIR should become the hub for specialised knowledge and expertise in the discourse and practice of Caribbean and Latin American diplomacy. It is on the basis of the above that Dr Lancelot Cowie, founding Director of the Centre of Latin America and the Caribbean (CENLAC), was brought in to contribute to the expansion of Latin American Studies at the IIR. The IIR hopes to expand and consolidate its networks in the academic and policy spheres in Latin America and Caribbean frameworks through this programme.

#### *Teaching and Learning, Curriculum Enhancement*

Teaching and learning enhancement has been provided via the diverse public events and in-course guest lectures by practitioners and experts in various fields which were offered by the IIR. The DAOC training modules offer professional development beyond the classroom. Internships are another avenue through which students can receive additional professional training. In the second semester of the academic year, efforts were made towards revamping the internship programme. With the help of a OJT **Ms Maryam Ali- Khan**, the internship data base was expanded and updated, and letters sent to organisations to secure regular internships in the new academic year. The objective was to establish formalised arrangements with participating organisations to guarantee annual internships for our students.

## CENTRES AND INSTITUTES

Following travel bans and COVID-19 restrictions, overseas and local student study tours were discontinued. Local study tours were reinstated in the reporting period, under the direction of **Dr Jacqueline Laguardia Martinez**. Attempts were made to organise a study visit to Guyana and Suriname with the assistance of **Dr Mark Kirton**. However, very few students showed commitment to the trip. This could have been caused by the lack of solidarity among students to mobilise fund raising because of online teaching, awareness of reduction of sponsorship and donor funding in the marketplace and general economic hardship from the aftereffects of COVID-19.

**Dr Georgina Chami** continued her role as Faculty Advisor for the UWI STA Model UN Club during the 2022/2023 academic year. Despite facing financial constraints that led to the club's non-participation in HNMU 2023, student interest remained strong. To accommodate increasing demand, meetings transitioned from weekly to bi-weekly sessions. The club focused on various aspects of Model UN conferences, including writing position papers and clauses, and raising awareness of issues related to the UN's Sustainable Development Goals. Dr Chami's leadership since 2018 has significantly contributed to the club's development and the holistic growth of undergraduate students. Meetings shifted from remote to face-to-face, adhering to safety protocols, and included roundtable discussions on current events. The club's goals remain centered on enhancing visibility, hosting informative activities, fostering collaborations, and engaging in community initiatives.

### *IIR's Public Outreach Events*

The Institute of International Relations (IIR) hosted, co-hosted, and organised a total of 21 public events up until July 31, 2023. The events included three Diplomatic Dialogues, 12 Panel Discussions, Symposia, Forums, or other similar events, three meetings of the Latin American Forum, and three Book Launches.

These events are intended to promote discussion and exchange of ideas with government officials, practitioners, experts, students and the general public on issues of relevance to international relations and regional development. Importantly, the events give the IIR's work a regional reach, promote its public presence, generate knowledge and advance the policy relevance of its work. Many of these events are executed collaboratively with individuals and a wide range of organisations, including, research and policy bodies, think tanks, national and regional governmental and non-governmental organisations. These partnerships highlight among many things, the multidisciplinary nature of the IIR's work and its ability to bridge the gap between theory, policy and practice.

While all the seminars are important for the reasons mentioned above, special mention must be made of the two "CARICOM at 50" events to commemorate CARICOM's 50<sup>th</sup> anniversary, organised in collaboration with the CARICOM Secretariat – (i) a symposium and (ii) a youth forum, at which the keynote speakers were **Dr Carla Barnett**, CARICOM Secretary General and **the Honourable Kerryne James**, Minister for Climate Resilience, the Environment and Renewable Energy of Grenada, respectively. Honourable Kerryne James, is perhaps the youngest elected member of Parliament in the CARICOM region. The Minister of Foreign and CARICOM Affairs, **Senator the Honourable Dr Amery Brown** and the Dean of the Faculty of Social Sciences, **Dr Acolla Lewis-Cameron** delivered remarks. Other speakers at the symposium were among the most notable scholars and best placed practitioners in the region in the area of regional integration. The participants at the youth forum included representatives of the various chapters of the UWI Guild of Students as well as those from regional youth organisations.

*Latin American Forum (in Spanish)*

Among the initiatives of the Latin American Studies programme is a Spanish Language Latin American Forum, launched on 27 April, 2023. The Forum builds on the earlier activities of CENLAC from 2003 to 2016. The meetings of the Forum consist of presentations on relevant historical, political, economic, social and international relations issues in the Latin American context. A wide cross section of society attended the inaugural session, including Ambassadors from Mexico, Venezuela, and Brazil, as well as diplomats from the embassies of Panama, Chile, Argentina and the Dominican Republic.

The Ambassador of Mexico to Trinidad & Tobago, **H.E. Víctor Hugo Morales Meléndez** presented the inaugural lecture entitled: Francisco Villa, Vida y hazañas de una leyenda, on 18 May 2023 at 2:30 pm Following this inaugural meeting, there were two Latin American Forums in the reporting period. Presentations were delivered by the Ambassadors of Mexico and Peru.

Other events on issues of high public importance and/or which generated significant interest were on the Haitian Crisis in collaboration with the Caribbean Policy Consortium, the war in Ukraine, in partnership with the EU Delegation to Trinidad & Tobago, challenges and solutions around the repatriation and reintegration of Trinidad & Tobago nationals in Syria, with the International Parliament for Human Rights and reflections on Climate Change and COP27, in collaboration with the Arthur Lok Jack School of Business.

Noteworthy are the three book launches, which generated rich discussions and commentaries.

- edited collection by IIR academic staff, **Dr Georgina Chami** et al
- edited collection by **Carlos Fortin, Jorge Heine** and **Carlos Ominami**,
- single authored book by IIR alumna, **Dr Lisa Gordon**, IIR PhD Graduate (2022)

It is important to acknowledge that the public events were led/co lead by various IIR Faculty with the support of the IIR Secretariat as follows:

- Annita Montoute and Jacqueline Laguardia-Martinez: Two CARICOM at 50 events
- Jacqueline Laguardia-Martinez: Cuba-CARICOM Relations; The 210th Anniversary of the Chacachacare Expedition that Liberated Eastern Venezuela in 1813; Kari Polanyi Levitt: Celebrating a True Caribbean Woman
- Annita Montoute: The War Against Ukraine: How Will It End?; Soft power or hard power: is the European Union a positive player in global security?; The Haitian Conundrum: Challenges and Opportunities; Dynamics of Africa-Caribbean Engagement; Taking the Profit out of Illicit Trafficking of Firearms in Latin-America and the Caribbean
- Keron Niles: COP 27: the need for unified Caribbean leadership
- Michal Pawinski: Repatriation and Reintegration of Syrian Refugees
- Dave Seerattan: Cryptocurrencies and the Caribbean
- Professor Lancelot Cowie: Latin American Forum meetings

# CENTRES AND INSTITUTES

We are grateful to Faculty who either took the initiative and/ or agreed to lead the planning of IIR public events. As all the above events were delivered in collaboration with various organisations and individuals, the staff assisted in sustaining and/or expanding the IIR's networks and partnerships.

We are hoping to expand the IIR's outreach to regional governments and further integrate the DAOC and the IIR by offering specific needs driven capacity building workshops. We envision these to be delivered via the DAOC and planned and taught by IIR Faculty.

## *IIR's Collaboration and Partnerships*

The IIR continued to build on its networks and partnerships in the reporting period. This year the IIR and the WTO collaborated to establish and manage the Regional Trade Policy Course after a three-year hiatus due to the COVID pandemic in 2020 and 2021 and low registration in 2022. For the second time, from 17 July to 8 September 2023, the two parties provided an eight-week Regional Trade Policy Course for selected participants from Caribbean Members and Observers of the WTO. **Dr Dave Seerattan** served as the UWI Coordinator. **Dr Indera Sagewan-Ali** was the Academic Coordinator and the IIR Secretariat provided administrative support.

Our collaborators for seminars and public events, included: foreign embassies in Trinidad & Tobago (Mexico, Peru, Venezuela and the EU Delegation of the European Union, France), Caribbean Policy Consortium, The International Parliament for Human Rights (Parlamento Internacional para los Derechos Humanos, PIDH), American Chamber of Commerce, American Bar Association (ABA) Criminal Justice Section, Institute of Global African Affairs, University of Johannesburg Trinidad & Tobago; Arthur Lok Jack School of Business, CARICOM

Secretariat, Republic Bank Trinidad & Tobago, Central Bank of Trinidad & Tobago, UWI Guild of Student Chapters, various regional youth organisations, United Nations Development Programme, Pointe-a-Pierre Wildfowl Trust, The H-Empire of H-Net, China Institute of International Relations and Centro de Estudios del Caribe: Casa de Las Americas. We also collaborated with individuals including **Professor Jorge Heine** and our own Alumna, **Dr Lisa Gordon**.

In keeping with the QAR recommendation that the Institute should expand its partnerships with foreign universities and international organisations to boost the IIR's capacity and research productivity, we sought to pursue such engagements. These include the University of Johannesburg Institute for Pan African Thought and Conversation (IPATC) in the context of the joint UWI/UJ Joint Institute. The IIR hosted a delegation of staff and student from the University of Johannesburg's Institute for Global African Affairs (IGAA) Delegation, January 20 – 28, 2023. During the visit, the IIR and IPATC agreed to collaborate on several initiatives, including staff exchange, joint research and funding, supervision, seminars and publications. Depending on funding availability, IIR staff will be invited to visit the IPATC, and a joint edited book project is underway between the IIR and IPATC. Dr Annita Montoute (IIR) and Dr Adeoye Akinola (IPATC) are co-editors of the Pan African Conversations: An International Journal, the flagship publication of the IPATC.

The IIR finalised an MOU with the China Institute for International Studies (CIIS) in December 2022. It was due to be signed during an IIR-CIIS large scale webinar which was to have been held on 19 and 20 December 2022. This webinar was postponed, due to severe COVID conditions in China, resulting in the delay of the signing of the MOU. The CIIS and IIR have discussed having a scaled down version of the webinar and signing of

the MOU during the meeting. The MOU aims to facilitate joint research activities, exchange of faculty members and research students; staging of joint seminars, meetings and conferences; mutual participation of fellows and researchers in the events of both parties, exchange of academic publications and related materials and collaborative academic programmes which may involve cultural activities.

Dr Pawinski and colleagues at Ming Chuan University of Taiwan have been delivering guest lectures to each other's classes. Dr Laguardia has also been invited to participate. This has led to discussions between the two institutions to formalise the relationship. An MOU was finalised by the UWI Legal Department between the IIR and the Ming Chuan University of Taiwan. The MOU permits collaboration in the following areas: research and research funding, supervision, staff and student exchanges, information sharing about conferences, workshops, assistance to participate in each other's events, supporting activities/ services such as language training and orientations and preparatory courses.

The IIR continued to engage in EU-LAC Partnership forums and meetings hosted by the Carolina Foundation and the EU-LAC Foundation. **Dr Annita Montoute** participated in the meeting of Research Centres and Study Associations based in Latin America and the Caribbean dedicated to the analysis of the European Union and Bi-regional Relations between Europe and Latin America and the Caribbean, in December 2022. **Dr Jacqueline Laguardia Martinez** participated in the Dialogue between European, Latin American and Caribbean Research Centres and Decision Makers: Perspectives and proposals to renew the Strategic Association between the European Union and Latin America and the Caribbean, in Madrid Spain, April 2023.

#### *Quality Assurance Review Report Follow-Up*

The Implementation Plan following receipt of the 2021 Quality Assurance Review Report was completed last year and is awaiting further direction and feedback from the Board. The Plan addresses key recommendations made by the Assessment Team. Some of the recommendations are already being implemented as they were closely aligned with the IIR's Curriculum revision exercise. Importantly, many of the recommendations of Working Group 1 of the Task Force on the restructuring of the IIR mirror that of the Quality Assurance Review Report.

#### *IIR Alumni Association (IIRAA)*

The IIR Alumni Association (IIRAA) was established last year, and this academic year registered as a professional sub-chapter of the St. Augustine Campus UWI Alumni Association. The IIR boasts over 2000 alumni, many of whom have had or are presently developing outstanding careers in international and regional organisations, national public life, private sector bodies and civil society development and advocacy spaces. A key strategic goal of the IIRAA is to institutionalise their relationship with the Institute and further harness their support and collaboration in building the Institute, while especially for younger alumni, supporting their ongoing professional development interests.

The alumni are a tremendous asset and source of pride to the IIR and we are committed to supporting the IIRAA in their objectives and endeavours. On the IIR website, we have removed the Alumni page as a sub-tab and placed it as a main tab to give it a more prominent position. A contact form has been created for Alumni to provide their updated information for the purpose of updating the Alumni database and mailing list to facilitate more widespread and further engagement with

# CENTRES AND INSTITUTES

members. A note has been sent to alert members and to ask them to pass on to those whose emails have changed and are not receiving notifications of IIR events. Subsequently, the IIR will work with the IIRA to explore Alumni support for securing internships and institutional partnerships. We will also work with the UWI Alumni Affairs Unit to link the IIR Alumni page and populate UWI Connect with relevant information.

## *Registration and Throughput*

Student numbers at the IIR declined by almost 11 percent, from 84 to 75 during the past academic year. Contributing factors other than the removal of GATE include lapsed registrations and lower new enrolments due to the attrition caused by social and economic difficulties. These sobering results underscore the absolute imperative of investing more heavily in marketing campaigns, strengthening the support for our current students struggling to complete their programmes under more austere circumstances, and continuing to innovate and transform the IIR's programme offerings in order to increase competitiveness and tap into new markets.

One encouraging detail is the increased regional and international enrolment which has been facilitated by remote access to the MSc and Postgraduate Diploma programmes. This is clearly evidenced in the 2021/2022 statistics where regional and international student registration ranged from 10 to 14 percent. This fact must also inform policymaking on future programmes, their delivery modes and target markets.

## *Student Throughput*

In 2021/2022, six PG Diplomas in International Relations were awarded. Two of the graduates received the grade of Distinction in their awards. Fifteen MSc Global Studies degrees were awarded, nine with Distinction. Four PhD awards have

been made in 2021/2022. The IIR heartily congratulates **Dr Lynelle Clarke, Dr Lisa Gordon, Dr Kobina Wilson, Dr Anthony Gafoor**, and all other graduating students. We wish them all the very best in the future and we hope for continued engagement with them as valued members of our alumni network.

## *Programmes*

### *The Diplomatic Academy of the Caribbean*

The annual report on the operations of the Diplomatic Academy of the Caribbean (DAOC) can be found in Appendix II. Suffice it to point out that the DAOC has met the objectives and exceeded the targets on participant numbers and revenue set in its Business Plan 2021/2022. The DAOC delivered five online training modules spanning the period 01 August 2022 to 31 July 2023,

These include Energy Diplomacy: Foreign and Security Policy Contexts in the Caribbean; three iterations of Protocol and Diplomacy: A Guide for the Modern Professional and Advances in Consular Affairs in the Modern Diplomatic Mission: A Caribbean Perspective.

## *Strategic Review*

### **Access**

#### **Implementation of Action Plan**

The UWI International Institute of Relations (IIR) aimed to improve its operations with an Action Plan based on the 2021 Quality Assurance Report. This plan sought to make the IIR a hub for research, teaching, and outreach in international relations and global affairs. However, the Plan faced delays. Despite being a key agenda item at the June 2022 Board Meeting, decisions were postponed pending broader discussions about



the institute's financial and institutional future. The following year, the Plan remained unresolved without a definite decision.

### **Academic Developments**

Efforts were made to strengthen the Faculty, notably in filling the Lecturer/Senior Lecturer position in International Trade permanently. However, this progress was halted due to financial uncertainties.

Concurrently, the Institute worked on revamping its academic programmes. By May 2022, the UWI Board of Graduate Studies had approved the revised Postgraduate Diploma, MSc Global Studies, and MSc in International Relations programme was re-introduced.

### **Enhancing Engagement and Outreach**

The Institute embraced online platforms to engage a wider audience. Despite a drop in student numbers, remote teaching attracted more regional and international students. This led to hybrid public events and leveraging alumni networks for support.

### **Strategic Partnerships**

The IIR sought to expand collaborations with institutions globally, including the University of Geneva and the Institute for Pan African Thought and Conversation. Additionally, Memoranda of Understanding (MOUs) were pursued with various international partners to broaden horizons. An MOU was signed with Ming Chuan University of Taiwan, and others are scheduled with the China Institute of International Studies and Pontifical Catholic University of Rio de Janeiro (PUC-Rio)

### **Financial Sustainability**

Efforts to ensure financial stability included proposing cost-cutting measures and income-generating ideas. Most of the cost cutting measures were implemented prior to this reporting period. However, the transition in leadership and ongoing discussions hampered the implementation of any further proposals. Nonetheless, a promising letter from the government offered hope for additional funding.

### **Diplomatic Training and Professional Development**

The Diplomatic Academy of the Caribbean (DAOC) continued its training programmes, including customized sessions. Plans for new initiatives, like an orientation course for diplomats, were also underway.

### **Distinguished Visitors**

#### **Ms Gisela Aijinbob**

Consular Affairs Officer of the Argentine Republic

#### **Dr Adeoye Akinola**

Head, Research and Teaching Head of Unit,  
African Union Studies,  
Institute for Pan-African Thought and conversation (IPATC)

#### **Dr Odilile Ayodele**

Institute for Pan-African Thought and conversation (IPATC)

#### **Honourable Minister Senator Dr Amery Browne**

Minister of Foreign and CARICOM Affairs

#### **Dr Anthony T. Bryan**

Professor Emeritus and Co-Director, Caribbean Policy Consortium

#### **Mr Andre Bueno**

Counsellor, Embassy of Brazil

#### **His Excellency Didier Chabert**

Ambassador of the French Republic

# CENTRES AND INSTITUTES

**Mr José Cisterna**

Consul and Chargé d'Affaires  
Embassy of Chile

**His Excellency Álvaro Enrique Sánchez Cordero**

Ambassador Extraordinary and Plenipotentiary  
Embassy of the Bolivarian Republic of Venezuela

**His Excellency Rodrigo do Amaral Souza**

Ambassador Extraordinary and Plenipotentiary  
Embassy of the Federative Republic of Brazil

**Professor Winston Dookeran**

Professor Emeritus, Institute of International Relations

**Ms Cherybelle Gómez**

Secretary Second Class  
Embassy of the Dominican Republic

**Professor Anthony Gonzales**

Professor Emeritus, Senior Fellow,  
Institute of International Relations

**Dr Lisa Gordon**

Author

**Mr Yang Han**

Deputy Head of Mission and Counsellor  
Embassy of the People's Republic of China

**Her Excellency Sonya Koppe**

High Commissioner of Australia  
Australian High Commission

**Ms. Akasha Lewis**

Protocol Officer  
Ministry of Foreign and CARICOM Affairs

**Mr Deodath Maharaj**

Chief Executive Officer  
Caribbean Export Development Company

**His Excellency David Francisco Málaga**

Ambassador  
Embassy of the Republic of Peru

**Dr Roy Mc Cree**

Senior Research Fellow  
Sir Arthur Lewis Institute of Social & Economic Studies

**His Excellency Victor Hugo Morales Mélendez**

Ambassador Extraordinary and Plenipotentiary  
Embassy of the United Mexican States

**Dr Nompumelelo Ndawonde**

Institute for Pan-African Thought and conversation (IPATC)

**Mrs Joyra Castillo Quintero**

Second Secretary of Diplomatic and Consular Career  
Embassy of the Republic of Panama

**Honourable Dr June Soomer**

Chair of the Open Campus Council and Member of the  
UN Permanent Forum on People of African Descent

**Mr Nirad Tewarie**

Chief Executive Officer  
AMCHAM T&T

**Ms Reita Toussaint**

Permanent Secretary  
Ministry of Foreign and CARICOM Affairs

**Mr Mike Wight**

Deputy High Commissioner of Australia  
Australian High Commission

## Seismic Research Centre (SRC)

### Director's Summary

The UWI Seismic Research Centre (SRC) serves as the regional institution responsible for surveillance of, and fundamental research into volcanoes and earthquakes for the English-speaking islands of the Eastern Caribbean. For the past 70 years, the SRC has been providing the governments of its nine contributing territories with timely, precise, and comprehensive information pertaining to earthquakes, volcanic and other geologic activity, including 19 live volcanoes, in the Eastern Caribbean. In addition to its routine operations, the SRC collaborates with local, regional, and international agencies on projects and activities relevant to the core areas of its remit (seismology, volcanology, and education & outreach), with a view to better understand the geologic processes and to reduce risk. The work of the SRC holds and will persist in having a direct, tangible impact on the safety and sustainable development of the vulnerable island communities within the Eastern Caribbean, making it a vital pillar of public safety and sustainable development in the region.

However, we face a recurring challenge with the consistency of income received from our contributing territories, which, at present, only suffice for sustaining our routine monitoring services, such as the operation of a minimal seismic network. We continued to lobby vigorously for payment of outstanding debts. For all other aspects of our work, including critical research initiatives and significant enhancements to our monitoring network, we have been reliant on grant funding, predominantly sourced from external entities, and allocations from the SRC Departmental Consultancy Fund (DCF).

The work undertaken by the SRC is focussed on developing a better understanding of the geologic processes at work in the region to advance efforts towards Disaster Risk Reduction and promote sustainable development. To this end, the SRC plays an active role in promoting geologic hazard awareness and collaborates with local, regional, and international agencies on research and outreach projects. The Centre operates the largest geophysical monitoring network in the Caribbean region. It provides a national seismological service for all of its contributing territories and a national volcanological service for five of them. Its mission spans the wide areas of monitoring, research, warnings, outreach, and postgraduate teaching.

***Dr Erouscilla Joseph, Director***

### Key Achievements

Following the SRC's 2022 award for Volcano Surveillance and Crisis Management by the International Association of Volcanology and Chemistry of the Earth's Interior (IAVCEI), in recognition of the SRC's management, monitoring, and response to the 2020–2021 eruption of the La Soufriere volcano, St. Vincent, the Centre led the publication of a thematic Special Publication with the Geological Society London, in which 18 peer-reviewed publications were made available through Open Access in June 2023: <https://doi.org/10.1144/SP539-000>. The UWI SRC celebrated its 70th Anniversary with a flagship event under the theme "Honouring Legacies & Fostering the Future", held on 21<sup>st</sup> June 2023 at the Daaga Auditorium, UWI St. Augustine. This event featured a distinguished address by Dr The Honourable Keith Rowley, current Prime Minister of Trinidad & Tobago, and First Caribbean-born UWI-trained scientist to be appointed Head of the SRC.

# CENTRES AND INSTITUTES

During the reporting period, a reconnaissance trip to St. Vincent was made to plan for further upgrade of the monitoring network scheduled for early January 2024; additional network maintenance was conducted in Dominica, Antigua and Trinidad & Tobago. Additionally, 12 strong motion stations were installed in various urban areas in Trinidad & Tobago.

Infrastructure works was completed at Mt. St. Benedict, Trinidad to host a new multi-parametric monitoring station (consisting of a three-component broadband seismic station, accelerometer & continuous GPS station). This site will function as a data communications repeater for the Trinidad & Tobago geophysical monitoring network.

Investigations to provide technical services to Nevis for monitoring geothermal exploration activities; additional talks with St. Lucia are ongoing to provide similar services. The SRC transitioned to its new seismic data acquisition, processing, and location systems in January 2023, which meets international standards for geophysical monitoring agencies. In addition to routine monitoring operations, key projects with which the Centre were engaged during the reporting period are summarized below with an indication of their alignment with the University's 2022-2027 Strategic Objectives provided in the footnotes. Some of these projects are ongoing and will continue during the 2024/2026 period.

## *Ongoing Projects*

### **Management of the Montserrat Volcano Observatory**

Successful execution of the management of the Montserrat Volcano Observatory continued, with a six-month extension to March 2024. The contract is for a fixed sum of EC\$10.5 million over 18 months and largely supports the employment of eight members of staff (seven based at MVO and 1 at SRC).

### **The Seismic Microzonation Studies in Trinidad & Tobago**

The Ministry of Planning and Sustainable Development, Government of Trinidad & Tobago has funded this 10-year project to pursue the microzonation of ten cities and major population centres in Trinidad & Tobago. Project extended to 2026 with a total estimated budget for the studies of US\$1.7M.

### **Economic Feasibility of Green Industrial Eco Park (Dominica)**

In August 2022, the SRC embarked on a consultancy service to conduct a Magneto-telluric survey of 60 stations and geothermal resource mapping in the geothermal zone near the northern town of Portsmouth, funded by the Government of Dominica. Project ended in April 2023 with a budget of US\$93,000.

### **Connecting Communities for Climate and Disaster Risk Preparedness (CCC-DRIP)**

This is a project funded by the International Development Research Centre (IDRC) to enable selected communities in Dominica to move from response to preparedness as an example for the Caribbean region. The scope of work involves the collection of geophysical and geological data on the island of Dominica and the production of hazard maps, with a special focus is given to urban areas. Budget US\$50,000. (September 2021 –2024).

### **NEMO Consultancy**

The SRC provides technical and scientific support to the National Emergency Management Organisation of St. Vincent with post eruption needs (VEEP). Budget of US\$124,000 (September 2022 – February 2024).

### **Eastern and Southern Caribbean's Policy and Regulatory Reform for Resilience (PROSE)**

This four-year project aims to support national governments within the Eastern and Southern Caribbean in strengthening legal frameworks for regional, national and sectoral resilience by providing technical assistance, from a multidisciplinary UWI team, on disaster risk management (DRM); disaster risk reduction (DRR); climate change adaptation (CCA); seismic risks and other natural hazards; law and policy; agriculture; and water and blue economy. Budget US\$1M.

### **Explosive Transformations: Cultural Resilience to Natural Hazard on St Vincent and Montserrat**

This project, done in collaboration with Oxford University U.K, will deliver two animations with direct relevance to education and risk reduction in communities on the volcanic islands of St Vincent, St Lucia, Montserrat, Grenada and Dominica. This project also facilitated the production of two outreach films/videos: 'Vincy Voices: Lessons from La Soufriere' and 'Volcano inna me backyard' animation. Funded by the UK Research and Innovation. Budget of £36,000.

### **Curating Crises: the past as a key to improving the stewardship of hazard knowledges for the future.**

Funded by the UK Arts and Humanities Research Council, this project is done through a collaboration between the SRC, MVO and the University of East Anglia. The aims of the project are to explore colonial influences on the creation and circulation of knowledge and the development of observational and instrumental networks in response to volcanic crises in the Eastern Caribbean, make the data and knowledge creators we explore more widely visible, and to understand and share the lessons these bring to current practice in how and what 'data' are used and acknowledged. Budget of £29,000.

### **The C.O.R.E. (Creating Opportunity from Research Experience) Programme**

Held from June to August 2023, the SRC's Summer programme provided an internship opportunity for three highly motivated university level students interested in pursuing geoscience careers. Students were provided with an opportunity to work closely with SRC and MVO staff on a research project. The programme is funded entirely from the SRC DCF and MVO Project with a budget of TT\$6,000 not including the cost of staff input.

### *Challenges and Constraints*

The income received from our contributing territories in the Eastern Caribbean continue to be inconsistent (TT\$5.5-11.6M during the period 2010-2023) and provide only sufficient funds for routine monitoring (i.e. operation of a minimal seismic network). All other work, including most research and major developments in the network and outreach, were undertaken through grant funding mainly from external sources or from applications to the SRC Departmental Consultancy Fund (DCF). Funding obtained from grants and consultancy for the reporting is estimated to have been about TT\$1.2M/year. Academic staff members continue to contribute significant proceeds from consultancies into the DCF.

Our recurrent budget caters for 26 members of staff, but budgetary restrictions has resulted in three of these positions (one academic, one professional & one technical) being frozen over the last several years. Since 2010 the percentage contributed to our operations by the DCF has risen to approximately 20% of our total annual expenditure (which has varied between TT\$8.9-12.5M). This situation should not be considered lightly, as we are increasingly having to supplement our routine operations from the Department's Consultancy

# CENTRES AND INSTITUTES

Fund, which had previously been used mainly to further our post-graduate research programme (support students) and to support departmental Outreach activities. It also means that we have effectively had to endure budget cuts of 10-20% over the past 10 years. Any further reduction will make our work impossible. Other challenges exist with continuing to provide content and information on geohazards in various styles and formats that can help to broaden the reach of the SRC to stakeholders at various levels.

## *Planned Activities for 2024/2025 & 2025/2026.*

### **Management of the Montserrat Volcano Observatory**

The interim contract signed in 2021 for the management of the Montserrat Volcano Observatory, was extended to 31 March 2024. The SRC submitted a bid in August 2023, to the Government of Montserrat, for a new 3–4-year contract. The outcome is expected by the end of 2023.

### **Eastern and Southern Caribbean's Policy and Regulatory Reform for Resilience (PROSE)**

Year two of the project will continue to work on strengthening legal frameworks for regional, national, and sectoral resilience by providing technical assistance, from a multidisciplinary UWI team, on disaster risk management (DRM); disaster risk reduction (DRR); climate change adaptation (CCA); seismic risks and other natural hazards; law and policy; agriculture; and water and blue economy. US\$1M.

### **Disaster risk management in the Caribbean, support for the Seismic Research Centre (Phase 2)**

This two-year project is funded by the Government of New Zealand through its Ministry of Foreign Affairs and Trade. Phase 2 of this project will run from February 2024 – February 2026. The project builds on collaboration between GNS Science of

New Zealand and the SRC to build institutional capacity via provision of technical training and support, and to co-create an online volcano short course prototype geared to support the needs of various stakeholders. Budget NZ\$500,000.

### **NEMO Consultancy**

Ongoing work to support to the National Emergency Management Organisation of St. Vincent with post eruption needs. Contract extended to February 2024. Budget US\$124,000.

### **Development and expansion of professional and technical consultancy services**

This will involve an investigation of the demand for, and requirements of, providing professional services to disaster risk reduction and geoscience stakeholders in the Eastern Caribbean.

### **Development and creation of more effective social media and digital products for supporting outreach activities.**

Attention will continue to be focused on enhancing the education and outreach work of the Centre to vulnerable island communities using social media but also developing short videos and other digital products.

### **Completion of communications hub co-located and multi-parametric monitoring station (consisting of 3-component broadband seismic station, accelerometer & continuous GPS station) at Mt. St. Benedict's**

This will involve the construction of a vault, erection of a communications tower and installation of seismic monitoring equipment. This work is being entirely funded from the SRC Departmental Consultancy Fund and will be completed in 2023. Budget TT\$20,000.

### **Inclusion of a 4<sup>th</sup> Space Segment for VSAT data communications**

Since 2006, the SRC introduced the use of Satellite Telemetry as the digital data communication medium for a fraction of the regional seismic network that was designed for Tsunami Surveillance. By 2012, three space segments were leased from INTELSAT at a cost of US\$4200 per quarter to link 12 of these stations. The high level of performance provided by this system, has encouraged the governments of St. Vincent and Dominica to invest in the acquisition of four additional satellite stations. To accommodate this, an additional satellite space segment will be required to relay the data at an approximate cost of US\$5200/annum. Consequently, this will also create an opportunity to accommodate an additional four VSAT installations in underserved regions such as St. Kitts, Nevis, and Montserrat to improve future operations of the monitoring network.

### **Finalise the outfitting and occupation of the third floor of the SRC building**

This includes the provision of space for postgraduate students; provision of space for lectures; and mineral collection display. Sufficient funds can be raised from our DCF to enable some of these activities and grant funding to contribute towards this will be explored. It should be noted that thus far the entire outfitting and modifications necessary for occupation of the new building as with this planned work has been funded from SRC DCF.

### **Re-location of computer servers to new building and expansion of the SRC IT infrastructure**

This work is still outstanding due to the significant cost involved. The estimated cost is as follows: servers for data - US\$32,000, storage for data - US\$15,000, network infrastructure (racks, switches, UPS) - US\$50,000. (TOTAL ~US\$100,000 from SRC DCF).

### **Budgetary requirements**

The recurrent budget allocated by Centre to the SRC has fluctuated between TT\$9million and TT\$14million over the past five years. However, actual expenditure has been between TT\$6.9-9.5million, due to lack of consistent and assured contributions, thereby resulting in restrictions placed on our expenditure by St. Augustine Bursary. If the SRC continues to obtain an additional amount of TT\$1-2million in grant and consultancy funding in the upcoming biennium to contribute to its DCF, an allocated budget of approximately TT\$11million per financial year by Centre will be needed to achieve our mandate.

## **Distinguished Visitors to the Seismic Research Centre**

### **Mr Inaki Alvarez Camps**

Policy Officer, Americas Division  
Ministry of Foreign Affairs and Trade, New Zealand

### **Ms Joanna Kempers**

Divisional Manager, Global Development & Scholarships  
Ministry of Foreign Affairs and Trade, New Zealand

### **Ms Sarah Lee**

New Zealand's Acting High Commissioner to the Caribbean  
Ministry of Foreign Affairs and Trade, New Zealand

# CENTRES AND INSTITUTES

## Mr Orlando De La Vega

Luna  
Director General de Asuntos Internacionales  
Pontificia Universidad Católica de Valparaíso, Chile

## Dr Lara Mani

Senior Research Associate  
Centre for the Study of Existential Risk  
University of Cambridge, UK

## Distinguished Visitors to the Montserrat Volcano Observatory (MVO)

### Mr Paul Candler

Director of Overseas Territories  
Foreign and Commonwealth Development Office, U.K.

### Sir Lindsay Hoyle

Speaker of the House of Commons  
United Kingdom Parliament

### Mr Vijay Rangarajan

Director General with responsibility for the Overseas Territories  
Foreign and Commonwealth Development Office, U.K.

## Sir Arthur Lewis Institute of Social & Economic Studies (SALISES)

### Director's Summary

The SALISES academic team comprised four members of the Academic Staff, one of whom holds a temporary appointment as a Junior Research Fellow until July 31st, 2024. Noteworthy contributors during the previous academic year included **Dr Godfrey St. Bernard** (Acting Director, retired September 2023), **Dr Roy Mc Cree**, **Dr Preeya Mohan**, and **Dr Bephyer Parey**. All Academic Staff members actively participated in, and significantly contributed to, the initiatives undertaken by SALISES throughout the reporting period. This commitment aligns with SALISES' overarching mission of engaging in high-quality research and graduate teaching focused on social and economic development policy, governance, and public policy, with special emphasis on small developing countries.

Seven staff members were designated under the classification of Administrative, Technical, and Support Staff (ATSS). This distinguished cohort comprised **Mr Sheldon Warner**, **Ms Francine Alleyne**, **Ms Cathy-Ann Modeste**, **Ms Sharon Hodge-Biggart**, **Mr Ephraim Thompson**, **Mr Leslie Brewster**, and **Ms Sita Roodal**. Additionally, the pivotal roles of **Ms Kereen Olivier**, **Ms Elsa Hamilton**, and **Mr Jason Chamaroo** were noteworthy, as they deputized for Mr Sheldon Warner, Ms Cathy-Ann Modeste, and Mr Ephraim Thompson, respectively, providing invaluable assistance to SALISES during the eligible leave periods of the officers. A review of reports and firsthand observations reveals a commendable level of enthusiasm and unwavering support exhibited by the ATSS staff. This collective dedication extends to all outreach initiatives and other activities undertaken by SALISES, underscoring their integral role in facilitating the institute's endeavors.



SALISES consistently achieves commendable annual throughput, notably evidenced in the intake and graduation rates of students from both the MSc Development Statistics and its MPhil/PhD programme. The exemplary performance of these students is underscored by the prestigious awards and commendations conferred upon three individuals. Moreover, SALISES continues to establish its prominence by securing international projects and garnering research funds, pivotal elements that have significantly contributed to the enhancement of the University of the West Indies' (UWI) standing within the realm of tertiary institutions, both regionally and globally. Distinguished scholars, **Dr St. Bernard** and **Dr Mohan**, have played pivotal roles in this endeavor. The burgeoning impact of SALISES researchers' scholarly output is becoming increasingly apparent - the citation count has exhibited a noteworthy growth trajectory, rising from 164 citations in 2022 to an impressive 191 and counting in 2023.

Throughout the Academic Year 2022/2023, SALISES maintained a robust schedule of intellectual engagements. During this period, SALISES orchestrated a series of nine SALISES Virtual Forums, featuring scholarly discussions. Additionally, four Spotlight Lectures delivered by SALISES Academics enriched the academic discourse, complemented by two SALISES Visitors' webinars, the groundbreaking Inaugural SALISES Sixth Formers' webinar, and specialised Statistical Training in R-Studio. A testament to SALISES' commitment to scholarly pursuits, three conferences were hosted during the last academic year, with one of them serving as a distinguished 75th Anniversary event. **Dr Mohan** and **Dr St. Bernard**, continued to propel their research interests forward, leveraging both regional and international funding sources. Further contributing to the scholarly landscape, SALISES' academics

actively participated in various intellectual activities. This involvement encompassed the organisation of conferences for scholarly associations, membership on Editorial Boards, roles as resource persons for scholarly events, contributions to the establishment of knowledge-sharing resources, and the facilitation of Memorandum of Understanding, collectively reinforcing SALISES' commitment to academic excellence and collaborative knowledge dissemination.

In the upcoming academic year, SALISES is poised to execute a strategic agenda aimed at diversifying revenue streams through multifaceted initiatives. This includes the acquisition of research grants, the implementation of continuing education programmes, and active stakeholder engagement. A pivotal aspect of this strategy involves the comprehensive transition of both the MSc in Development Statistics and MPhil/PhD graduate programmes to an online platform. Anticipated to be fully operational by the academic year 2024/2025, this transformative measure is poised to increase student enrolment by appealing to a broader demographic, particularly attracting students from the Caribbean and the Global South.

Concomitantly, a concerted effort will be directed towards the heightened marketing of our graduate programmes, employing both direct and indirect strategies. SALISES is committed to providing an array of scholarly, capacity-building, and outreach activities, including targeted engagement with alumni and secondary school students. The Institute will persist in conducting market research, offering consulting services, and customizing training programmes to maintain flexibility and adaptability in response to evolving market conditions and requirements.

# CENTRES AND INSTITUTES

In the realm of professional development short courses, SALISES anticipates the delivery of courses focusing on statistical applications such as R-Studio and SPSS. Furthermore, the upcoming year heralds the initiation of new research clusters and the augmentation of collaboration within existing clusters at local, regional, and international levels. A sustained and intensified pursuit of research funding and grants remains a cornerstone of SALISES' research agenda.

Notably, preliminary discussions will be initiated with international universities to explore potential partnerships. The envisaged collaborations aim to facilitate exchange programmes for both staff and students, synergize expertise, augment grant opportunities, and facilitate the delivery of short courses, thereby fostering a globally connected and academically enriched environment.

**Dr Sandra Sookram, Director**

## Anniversaries, Achievements and Awards

**Dr Bephyer Parey** was awarded a 2022 UWI/Guardian Group Premium Teaching Award. Two students received awards during the 2022/2023 period. These were **Mr Samuel Gabriel** who received the Jack Harewood Award, and **Ms Hafeeza Hosein-Shah**, PhD Governance who received a PhD Award.

## Administrative Improvements

First Aid/CPR Training was conducted at the Health Economics Unit, February 2023 and attended by **Mr Ephraim Thompson** and **Ms Cathy-Ann Modeste**. Both were awarded the American Heart Association First Aid/CPR AED certification. The power of Project Management for Precision in Practice, UWI, Faculty of Social Sciences, Business Development Unit was attended by **Mr Sheldon Warner**.

## Research

SALISES, through its Disability Studies Research Cluster, conducted a disability public awareness project to showcase the contributions persons with disabilities are making to Trinidad & Tobago society. Thirty persons were highlighted through [online videos and/or online articles](#). The reach of the project is currently ongoing through partnership between the Cluster and **Ms Shamla Maharaj** (host of TTT programme "Unique Not Different"). The Implementation of UNFPA-funded workplan relating to the 2022-2026 UNFPA Country Programme for Trinidad & Tobago Liaison Office UNFPA Project to run from 11 September - 15 December 2023 with a budget of approximately US\$30,000.

## Outreach and Collaborative Initiatives

The SALISES, through its Disability Studies Research Cluster, operationalised a Memorandum of Understanding (MOU) between the Equal Opportunity Commission of Trinidad & Tobago and The University of the West Indies.

## Data and Metrics

Approximately 34 scholarly publications in the form of journal articles, book chapters and working papers.

## Social media and web analytics

Facebook - October 2021 – 39 likes, currently – 157 likes, 194 followers

Instagram – started in January 2022 – currently 116 followers.

Twitter – October 2021 – 71 followers, current followers – 97

YouTube Account – started in January 2022 – 66 subscribers, 46 videos

## Strategic Review

### Access

SALISES worked to increase enrolment in MSc in Development Statistics (STA) programme by improving the online presence for teaching. Formalisation of the programme to be delivered online was done. Four (4) courses in the programme that are harmonised with the MSc in Development Studies (Mona) already have online approval. However, SALISES is working towards getting full approvals for the academic year 2024-2025.

SALISES also worked towards increasing enrolment in MPhil/ PhD programmes to attract students from the Global South beyond the Caribbean by moving the programmes online. Work is also being done to increase enrolment in professional development and short courses. Areas of statistical applications- R-Studio, SPSS. Online training was offered through a project with the UNWOMEN MOOC Training on Mar 1-Oct 31, 2023. Massive Open Online Course (MOOC): *Gender Analysis of Prevalence and Administrative CARICOM Data on Violence against Women and Girls* CFP No. BRB30/CFP 2021/17. Two members of staff received awards, the 2022 UWI/Guardian Group Premium Teaching Award, and the Certificate in University Teaching and Learning. SALISES had an output of 36 refereed publications (articles and book chapters).

### Alignment

SALISES' outreach initiatives included nine SALISES virtual forums, four SALISES Virtual Spotlight series, and one SALISES Sixth Formers' Webinar. *The Rights for Children and Youth Partnership* (RCYP) Project was closed with an approximate budget of CDN\$4.3M (for the entire Regional Project including other countries). CWI Project TT - Development of a Comprehensive Wealth Index for Trinidad & Tobago (IISD Project) ended 15 December 2023 with a budget of CDN\$100,000.

## FACULTY OF ENGINEERING

### Journal Publications

#### Department of Chemical Engineering

Bhagaloo, K., **Baboolal, A.**, Ali, R., Razac, Z., Lutchmansingh, A., Mangra, A., Muhammad, T., **Ward K.**, (2022) "Resource efficiency as a guide to clean and affordable energy: A case study on Trinidad and Tobago". *Chemical Engineering Research and Design*, 178: 405-420 <https://www.sciencedirect.com/science/article/pii/S026387622100527X> Journal impact factor: 4.119

Bhagaloo, K., Ali, R., **Baboolal, A., Ward, K.** (2022). "Powering the sustainable transition with geothermal energy: A case study on Dominica". *Sustainable Energy Technologies*. <https://www.sciencedirect.com/science/article/pii/S2213138821009243>. Journal impact factor: 7.632

Si, C., Steel, R. J., Olariu, C., Wang, H., Zhang, J., **Osman, A.** (2022). "Outer-shelf conduit within growth-fault compartment Pliocene Orinoco Delta". *Marine and Petroleum Geology*. 140 (1): 105680. <https://doi.org/10.1016/j.marpetgeo.2022.105680>

**Blake O. O.**, Faulkner D.R., Worden R.H., Armitage, P. J., Espie, A. A. (2022). "Effect of thermal shock on the permeability and seismic wave velocity of the caprock and reservoir during CO<sub>2</sub> injection". *International Journal of Greenhouse Gas Control*. <https://doi.org/10.1016/j.ijggc.2022.103691>. Journal impact factor (2020): 3.738.

**Iyare U.C., Blake O.O., Ramsook R.,** and Faulkner D.R. (2022). "Experimental study of the anisotropic behaviour of the Naparima Hill argillite". *International Journal of Rock Mechanics and Mining Science*. <https://doi.org/10.1016/j.ijrmms.2022.105083>. Journal impact factor (2020): 7.135.

Harrypersad-Daniel, A., **Blake, O.O., and Ramsook, R.** (2022). "Determining the static Young's modulus and Poisson's ratio, and compressive strength of the friable Erin Formation rocks using P-wave velocity". *Journal of Applied Geophysics*. <https://doi.org/10.1016/j.jappgeo.2022.104557>. Journal impact factor (2020): 2.121.

Basant, R. A., B. Y. Lynne, **R. Ramsook,** G. A. Ryan, **O. O. Blake,** and J. E. P. Utley. (2022). "Utilising cores for characterising the temperature and permeability regimes in a litho- stratigraphic model of the Montserrat geothermal system, Montserrat (Lesser Antilles arc, West Indies)". *Geothermics*, 100, 102341. <https://doi.org/10.1016/j.geothermics.2021.102341>. Journal impact factor (2020): 4.284.

Ali, B., **Chakrabarti, D.P., (2022).** "The Impact of Surfactants and Particles on the Stability of Emulsion in The North Coast Marine Acreage of Trinidad and Tobago". *Journal of Petroleum Science and Engineering*, Volume 212, 110314. (*impact=4.346*) <https://doi.org/10.1016/j.petrol.2022.110314>

Sadeek, S., **Chakrabarti, D.P.,** Papathanasiou, M. M., **Ward, K.** (2023) "Optimising the sustainable energy transition: A case study on Trinidad and Tobago". *Chemical Engineering Research and Design*, Volume 192, 194-207, (*impact=3.9*) <https://doi.org/10.1016/j.cherd.2023.02.020>

Sadeek, S., **Chakrabarti, D.P.,** Papathanasiou, M. M., **Ward, K.** (2023). "Optimising the sustainable energy transition: Case study on Trinidad and Tobago". *Computer Aided Chemical Engineering*. Volume 52, 2903-2908, <https://doi.org/10.1016/B978-0-443-15274-0.50462-5>

### Department of Civil & Environmental Engineering

**Olutoge, F. A.** and Kolade, A. S. (2023). "Investigation of Compressive Strength of Slag-based Geopolymer Concrete Incorporated with Palm Oil Fuel Ash". *West Indian Journal of Engineering*, Vol45, No2, January 2023, pp. 77-85. <https://doi.org/10.47412/ZG1J9698>.

Oyebisi, S., **Olutoge, F.**, Raheem A., Dike, D., and Bankole, F. (2023). "Sustainability Assessment of Cement Concrete Modified with Bagasse Ash and Calcite Powder". *Materials Today: Proceedings*, <https://doi.org/10.1016/j.matpr.2023.01.077>. January 2023. United Kingdom. Elsevier. Impact Factor: 1.46, Citations: N.A, H-Index: 56, SJR: 0.355 (Q3)

**Chadee A.A.**, Martin H.H., Gallage S., **Banerjee K.S.**, Roopan R., Rathnayake U., and Ray I. (2023). "Risk Evaluation of Cost Overruns (COs) in Public Sector Construction Projects: A Fuzzy Synthetic Evaluation". *Buildings*, 13, 1116. <https://doi.org/10.3390/buildings13051116>. Impact Factor: 3.8.

Manbodea A. C., **Banerjee K.S.** and **Cooper V.** (2023). "A Comparative Evaluation of Multiple Factors to Determine a Sustainable E-waste Management Plan in Trinidad and Tobago". *The Industrial Engineering and Management Journal*, 2 (1).

**Chadee, A.**, Martin, H., Gallage, S., & Rathnayake, U. (2023). "Reducing Cost Overrun in Public Housing Projects: A Simplified Reference Class Forecast for Small Island Developing States". *Buildings*, 13(4), 998. <https://www.mdpi.com/2075-5309/13/4/998>

**Chadee, A. A.**, Ali, H., Gallage, S., & Rathnayake, U. (2023). "Modelling the Implications of Delayed Payments on Contractors' Cashflows on Infrastructure Projects". *Civil Engineering Journal*, 9(1), 52-71. doi:10.28991/CEJ-2023-09-01-05

**Chadee, A. A.**, Gallage, S., Martin, H. H., Rathnayake, U., Ray, I., Kumar, B., & Sihag, P. (2023). "Minimising Liability of the COVID-19 Pandemic on Construction Contracts; A Structural Equation Model for Risk Mitigation of Force Majeure Impacts". *Buildings*, 13(1), 70. Retrieved from <https://www.mdpi.com/2075-5309/13/1/70>

Fathi, A., Zomorodian, S. M. A., Zolghadr, M., **Chadee, A.**, Chiew, Y.-M., Kumar, B., & Martin, H. (2023). "Combination of Riprap and Submerged Vane as an Abutment Scour Countermeasure". *Fluids*, 8(2), 41. <https://www.mdpi.com/2311-5521/8/2/41>

Huda, M.B., Lone, M.A., Rather, N.A., & **Chadee, A.A.** (2023). "Scouring around different shapes of bridge pier". *Water Practice and Technology*, 18(7), 1608-1616. doi:10.2166/wpt.2023.108

**Leon, L.P.**, Roopnarine, K., **Azamathulla, H.M.**, **Chadee, A.A.**, & Rathnayake, U. (2023). "A Performance-Based Design Framework for Enhanced Asphalt Concrete in the Caribbean Region". *Buildings*, 13(7), 1661. Retrieved from <https://www.mdpi.com/2075-5309/13/7/1661>

Sathiyamoorthy, M., Masilamani, U. S., **Chadee, A. A.**, Golla, S. D., Aldagheiri, M., Sihag, P., & Martin, H. (2023). "Sustainability of Groundwater Potential Zones in Coastal Areas of Cuddalore District, Tamil Nadu, South India Using Integrated Approach of Remote Sensing, GIS and AHP Techniques". *Sustainability*, 15(6), 5339. <https://www.mdpi.com/2071-1050/15/6/5339>

Maraj, V., **Cooper, V.**, Wilson, M., (2023). "Optimal Design Storm Frequency for Flood Mitigation". *WIJE* 46(1): 49-57

Baboolal, R. and **Cooper, V.**, (2023). "The Impact of Climate Change on the Navet Reservoir, Trinidad". *WIJE*, 46(1):39-48.

# PUBLICATIONS AND CONFERENCES

ONLINE ONLY

Laigre, T., Balouin, Y., **Villarroel-Lamb, D.**, De La Torre, Y. (2023) "Seasonal to Multi-Decadal Shoreline Change on a Reef-Fringed Beach". *Coasts* (ISSN 2673-964X), Volume 3, Issue 3, 240-262; <https://doi.org/10.3390/coasts3030015> <https://www.mdpi.com/2673-964X/3/3/15>

Laigre T., Balouin, Y., Nicolae-Lerma, A., Moisan, M., Valentini, N., **Villarroel-Lamb, D.**, De La Torre, Y. (2023) "Seasonal and episodic runoff variability on a Caribbean reef-lined beach". *AGU's Journal of Geophysical Research – Oceans*, published by Wiley-Blackwell, Volume 128 Issue 4; <https://doi.org/10.1029/2022JC019575>

Laigre T., Balouin, Y., **Villarroel-Lamb, D.**, Nicolae-Lerma, A., Valentini, N., Moisan, M., De La Torre, Y., (2023) "Total water level mitigation related to fringing reef and upper beach vegetation status at a hurricane exposed coast". *Journal of Marine Science and Engineering* (ISSN 2077-1312), J. Mar. Sci. Eng. 2023, 11(3), 620; <https://doi.org/10.3390/jmse11030620>, <https://www.mdpi.com/2077-1312/11/3/620>

**Smith J**, Daniel A. (2023) "A Retrofit Solution for Uncoded Steel rafter to Ring Beam Connections." *Proceedings of International Structural Engineering and Construction*: Vol 10 (1).

Felix P, **Leon L.P, Gay, D.**, Salon S, **Azamathulla H.** (2023) "A CFD Model to Evaluate Near-Surface Oil Spill from a Broken Loading Pipe in Shallow Coastal Waters". *Fluid Dynamics & Materials Processing*. 10(8):141. <https://doi.org/10.32604/fdmp.2023.028031>

Mampitiya L, Rathnayake N, **Leon LP**, Mandala V, **Azamathulla HM**, Shelton S, Hoshino Y, Rathnayake U. (2023) "Machine Learning Techniques to Predict the Air Quality Using Meteorological Data in Two Urban Areas in Sri Lanka". *Environments*. 2023; 10(8):141. <https://doi.org/10.3390/environments10080141>

**Leon, L.P, Smith, J** and Frank, A. (2023) "Intermediate Temperature Fracture Resistance of Stone Matrix Asphalt Containing Untreated Recycled Concrete Aggregate". *Baltic Journal of Road and Bridge Engineering*, 18(1): pp.94–121, <https://doi.org/10.7250/bjrbe.2023-18.590>

**Leon, L.P.**, Ellis, L.A., Martin, H.H., and Fermin, B. (2023) "Dominating Factors of Road Failures: Perceptions of Key Stakeholders in the Small Island Developing State of Trinidad and Tobago". *West Indian Journal of Engineering*, Vol.45, No.2, January 2023, pp.68-76, <https://doi.org/10.47412/MGBB4897>

Ellis, L.A., **Leon, L.P.**, and Charran, A.V. (2023) "Investigating the use of Recycled Concrete Aggregates in the Construction of Structural Beams". *West Indian Journal of Engineering*, Vol.45, No.2, January 2023, pp.4-13, <https://doi.org/10.47412/XRHG1947>

Zolghadr, M., Mohammad S., Zomorodian, A., Fathi, A., Tripathi R.P., Jafari N., Darshan Mehta, Parveen Sihag, **Azamathulla, H.M.** (2023). "Experimental Study on the Optimum Installation Depth and Dimensions of Roughening Elements on Abutment as Scour Countermeasures", *Fluids*, 8(6)175.

Rahim, A .S., Yonesi, H.A., Rahimi, H.R. Shahinejad, B., Torabi Podeh, H., **Azamathulla, H.M.** (2023). "Effect of vegetation on flow hydraulics in compound open channels with non-prismatic floodplains", *AQUA-Water Infrastructure, Ecosystems and Society*, 72 (5), 781-797.

Herath, M., Jayathilaka, T., **Azamathulla, H.M.**, Mandala, V., Rathnayake, N.,(2023). "Sensitivity Analysis of Parameters Affecting Wetland Water Levels: A Study of Flood Detention Basin, Colombo, Sri Lanka," *Sensors* 23 (7), 3680.

Gharehbaghi, A., Ghasemlounia, R., Afaridegan, E., Haghiabi, A.H., Mandala, V., **Azamathulla, H.M.** and Parsaie, A. (2023). "A comparison of artificial intelligence approaches in predicting discharge coefficient of streamlined weirs". *Journal of Hydroinformatics* 25 (4): 1513–1530.

**Leon, L.**, Oculi, and N. (2022) "Forecasting Rainfall and Temperature Trends in Saint Lucia Using Nonparametric Statistics and Soft Computing Techniques". *Environment and Ecology Research*, 10(6), 670 - 687. <https://doi.org/DOI:10.13189/eer.2022.100605>

**Leon, L., Azamathulla, H.M., Felix P.**, and Prasad, C.V.S.R. (2022) "Prediction of stiffness modulus of bituminous mixtures using the applications of multi-expression programming and gene expression programming", *Road Materials and Pavement Design*. <https://doi.org/10.1080/14680629.2022.2126383>

Bridgemohan, L., **Leon, L.P.** and Townsend, T. (2023) "The Use of Aggregate Imaging Analysis for Comparing Geometric Properties of Aggregates Commonly Used in Bitumen Stabilized Pavement Layers". In *Airfield and Highway Pavements* 2023 (pp. 114-124). <https://ascelibrary.org/doi/abs/10.1061/9780784484906.011>

**Villarroel-Lamb, D.** (2022) "A Novel Approach for Predicting Wave Runup on Natural Beaches". Proceedings of the ICE: Maritime Engineering, 2022.176(3): p. 118-137, DOI: 10.1680/jmaen-2021-02, *ICE Publishing* (a division of Thomas Telford Ltd), <https://www.icevirtuallibrary.com/doi/abs/10.1680/jmaen.2021.022>

**Villarroel-Lamb, D.** and Lamb, A., (2022) "Natural Ventilation in Caribbean homes: a Numerical Investigation". Proceedings of the ICE: Engineering and Computational Mechanics Journal, 2022.175(3): p. 120-137, DOI: 10.1680/jenm-2021-00.47-69, *ICE Publishing* (a division of Thomas Telford Ltd), <https://www.icevirtuallibrary.com/doi/abs/10.1680/jenm.21.00001>

**Olutoge, F.A.**, Ogundiran, T.A., and Kolade, A.S. (2022) "Hybrid Bond Strength of Post-installed Reinforcement in Concrete using Epoxy-based Adhesives". *Journal of the Association of Professionals of Trinidad and Tobago*. Vol 50, October 2022, pp. 12-18. Trinidad and Tobago. Impact Factor: N.A, Citations: N.A, H-Index: N.A

**Chadee, A.**, Martin, H., **Mwasha, A.** and **Olutoge, F.A.** (2022). "Rationalizing Critical Cost Overrun Factors on Public Sector Housing Programmes". *Emerging Science Journal* 6 (3):647-666. Doi: 10.28991/esj-2022-06-03-016. Impact Factor: 5.09, Citations: 2, H-Index: 19, SJR: 0.600 (Q1)

**Chadee, A.**, Chadee, X.T., Chadee, C. and **Olutoge, F.A.** (2022). "Violations at the Reference Point of Discontinuity: Limitations of Prospect Theory and an Alternative Model of Risk Choices". *Emerging Science Journal* 6 (1):37-52. Doi: 10.28991/esj-2022-06-01-03. Impact Factor: 5.09, Citations: 3, H-Index: 19, SJR: 0.600 (Q1)

Mkpaidem, NU, Ambrose, EE, **Olutoge, FA.** Afanideh, CB (2022) "Effect of coarse aggregate size and gradation on workability and compressive strength of plain concrete". J. Appl. Sci. Environ. Mgt. Vol.26 (4), 719-723, April 2022. AJOL. Factor: 0.35, Citation: 3, H-Index: 10, SJR: 0.171 (Q4)

# PUBLICATIONS AND CONFERENCES

ONLINE ONLY

Oyebisi, S., Ede, A., **Olutoge, F.**, Owamah, H., and Igba T., (2022) "Slag-based Geopolymer Concrete Incorporating Ash: Effects on Thermal Performance". *Australian Journal of Civil Engineering*, 20:1, 208-221, January 2022. DOI: 10.1080/14488353.2021.1953234. Taylor and Francis, United Kingdom. Impact Factor: 1.98, Citation: 4, H-Index: 13, SJR: 0.458 (Q2)

Oyebisi, S., **Olutoge, F.A.**, Kumor I.O., Bankole, F., Owamah, H., and Mazino, U. (2022). "Effects of Cashew Nutshell Ash on the Thermal and Sustainability Properties of Cement Concrete". *Heliyon Journal*. August 2022, Volume 8, Issue II, e11593, Netherlands. Impact Factor: 3.78, Citations: N.A, H-Index: 46, SJR: 0.455 (Q1)

Oyebisi, S., **Olutoge, F.A.**, Kathirvel, P., Kumor, I.O., Lawanson, D., Nwani, J., Ede, A., and Kaze, R. (2022) "Sustainability Assessment of Geopolymer Concrete Synthesised by Slag and Corncob Ash". *Case Studies in Construction Materials* (Elsevier), Number 17 (2022) e01665, Netherlands. Impact Factor: 5.06, Citations: 2, H-Index: 36, SJR: 1.009 (Q1)

Buari, T. A., Adeleke, J.S., **Olutoge, F.A.**, Ayininuola, G.M., and Dahunsi, B.I.O. (2022): Approximation of Elasticity Modulus of Groundnut Shell Ash-based Self-consolidating High-performance Concrete Using Artificial Neural Network. *Asian Journal of Civil Engineering*, December 2022, Iran. <https://doi.org/10.1007/542107-022-00544-7>. Impact factor: 1.83, Citations: N.A, H-Index: 25, SJR: 0.397 (Q3)

**Banerjee, K.S.** and Ifill A. (2022). "Assessment of Natural Radioactivity Level before and after a Mud-volcano Eruption: A Study from Piparo Mud-volcano, Trinidad and Tobago". *Journal of Environmental Radioactivity*. V. 251–252, October 2022, 10695 (Impact Factor: 2.674).

**Banerjee, K.S.** and Seerattan, R. (2022). "The Professional Communities' Perception on the Adaptation of Digital Tools and Technology in Trinidad and Tobago's Construction Industry: Some Findings". *The Industrial Engineering and Management Journal* V. 1 (1).

## *Department of Electrical & Computer Engineering*

**George, M.L.**, and Hadeed, Z. (2023). "4-Digit BCD Multiplier Architecture with Similarity Investigator". *Journal on Electronics Engineering*, 13(2), 1-17.

**George, M.L.** (2023). "Effective Methodology for Teaching and Assessment of Laboratory-Intensive Courses during School Restrictions as a consequence of a Global Health Crisis". *Journal of Educational Technology*, 19(4), 37-58.

Manninen, H, **Ramlal, C.J., Singh, A.**, Kilter, J., and Landsberg, M. (2022) "Multi-stage deep learning networks for automated assessment of electricity transmission infrastructure using fly-by images". *Electric Power Systems Research* 209: 107948.

**Persad, J.**, and **S, Rocke**. (2022) "A Survey of 3D Printing Technologies as Applied to Printed Electronics". *IEEE Access* 10 : 27289-27319.

**Persad, J.**, and **S, Rocke**. (2022) Multi-material 3D Printed Electronic Assemblies: A Review. *Results in Engineering*, vol. 16.

Ramai, C., Ramnarine, V., Ramharack, S., **Bahadoorsingh, S.** and **Sharma, C.** (2022) "Framework for Building Low Cost OBD-II Data Logging Systems for Battery Electric Vehicles", Vehicles: Special Issue - *Internet of Vehicles and Vehicles Engineering* vol. 4, p. 14, . DOI: 10.3390/vehicles4040064



Manninen, H., **Ramlal, C.J., Singh, A.**, Kilter, J., and Landsberg, M. (2022) "Multi-stage deep learning networks for automated assessment of electricity transmission infrastructure using fly-by images". *Electric Power Systems Research* 209 : 107948. IF: 3.414, cites: 1

### Department of Geomatics Engineering & Land Management

Foley, A., Brinklow, L., Corbett, J., Kelman, I., Klock, C., Moncada, S., **Mycoo, M.**, Nunn, P., Pugh, J., Robinson, S., Tandrayen-Ragoobur V., and Walshe, R. (2023) "Understanding 'islandness'". *Annals of the American Association of Geographers*. 113:8, 1800-1817.

**Ramlal, B.** and Tambie, J. (2022) "A Qualitative Assessment of Geospatial Data Sharing Policies in the Caribbean." *Industrial Engineering and Management Journal*, Vol.1. No.2, pp 4-13. H-Index: Not available.

Roopnarine, C., **Ramlal, B.**, Roopnarine, R. (2022) "A Comparative Analysis of Weighting Methods in Geospatial Flood Risk Assessment: A Trinidad Case Study". *Land* 2022, 11, 1649. <https://doi.org/10.3390/land11101649>.

Hilmi N, **Sutherland, M.**, Farahmand, S., Haraldsson, G., van Doorn, E., Ernst, E., Wisz M.S., Claudel Rusin, A., Elsler, L.G., and Levin, L.A. (2023) "Deep-sea nature-based solutions to climate change". *Front. Clim.* 5:1169665. doi: 10.3389/fclim.2023.1169665. Cite Score = 2.1.

Melville, T., Wuddivira, M. and **Sutherland, M.** (2022) "Geospatial modelling of rainfall erosivity in the humid tropics using remotely sensed data". *Earth Science Informatics*. <https://doi.org/10.1007/s12145-022-00773-z>. Impact Factor = 2.82.

**Kotzebue, J. R.** (2022). "Integrated urban transport infrastructure development: The role of digital social geo-communication in Hamburg's TEN-T improvement". *Journal of Transport Geography*, 99, 103280. doi:<https://doi.org/10.1016/j.jtrangeo.2022.103280>

### Department of Mechanical & Manufacturing Engineering

**Adeyanju, A.A.** (2023) "The Influence of Rotor Separation On the Performance of a Dual-Rotor Wind Turbine". *Journal of Namibian Studies*, 35 S1 (2023): 4684-4702. DOI <https://doi.org/10.59670/jns.v35i.4573>. (SJR Impact Factor = 0.5)

**Adeyanju, A.A.** and **Manohar, K** (2023) "Experimental Analysis and Performance of a Waste Plastics Pyrolysis System for Biofuel Production". *International Journal of Energy for a Clean Environment* (IJECE-46470) Begell House. 24(8):73–88. (SJR Impact Factor = 3.941) DOI: 10.1615/InterJEnerCleanEnv.2023046470.

**Adeyanju, A.A.** and **Manohar, K** (2023) "Performance Assessment of Low Global Warming Potential Alternative Refrigerants". *Journal of Energy Research and Review*, Volume 13, Issue 3, Page 26-40. DOI: 10.9734/jenrr/2023/v13i3263.

**Bachoo, R.**, and Isaac Elishakoff. (2023) "Random vibrations of laminated planar frames". *Journal of Sound and Vibration* : 117860. <https://doi.org/10.1016/j.jsv.2023.117860>

**Bachoo, R.**, (2022) "Free Vibration Analysis of Elastically Restrained Laminated Planar Frames". *Journal of Vibration and Acoustics* 144, no. 6: 061009. <https://doi.org/10.1115/1.4055875>.

**Birch, R** and **Ekwue, E.I.** (2022). "Modeling the viscoelastic behaviour of the St. Julian mango". *The International Commission of Agricultural Engineering* (CIGR) Journal, 24 (4): 119 – 130.

# PUBLICATIONS AND CONFERENCES

ONLINE ONLY

**Chowdary, B.V.** and S. Mallian, "Enhancement of the torsional strength of commercial ABS samples manufactured using a tabletop 3D printer: an application of innovative hybridised tools and techniques", *Int. J. Research, Innovation and Commercialisation*, Vol. 5, 1 – 27.

**Chowdary, B.V.**, (2023) George, N., and Ali, E., (2023) "Design and development of anatomical model using CT imaging and rapid prototyping tools: application of medical CAD operations," *Int. J. of Image Mining*, Vol. 4, No. 2, , pp.159–176.

**Ekwue, E.I.** and Maharaj, A. (2023). "A comparison of two saturated hydraulic conductivity measuring techniques in relation to compacted soils incorporated with peat". *Journal of the Association of Professional Engineers of Trinidad and Tobago*, 51 (1): 4 – 10.

Gunakala, S.R., Job, V. M., Murthy, P.V.S.N., Nagarani, P., Seetharaman, H., **B.V. Chowdary**, (2023) "In-Silico Investigation of Intratumoural Magnetic Hyperthermia for Breast Cancer Therapy using FePt or FeCrNbB Magnetic Nanoparticles," *International Journal of Thermal Sciences*, 192, 108405.

Harrison, S., **Chowdary, B. V.** (2023) "Synergies in the Application of Industry 4.0 and Lean Manufacturing at a Product Label Manufacturer – A Discrete Event Simulation Case Study." *Sensors & Transducers*, Vol. 261, Issue 2, June, pp. 55-60.

Hassanali, K.N. and **Pun, K.F.** (2022) "A productivity framework for enhancing project performance in industrial firms in Trinidad and Tobago." *Journal of the Association of Professional Engineers of Trinidad and Tobago*, Vol.50, No.2, October , pp.19-27 (ISSN 1010-7924). <https://www.sciencedirect.com/science/article/pii/S1877050922006421>. (SJR Impact Factor = 2.267).

Henry, J.P., and **Bridge, J.** (2023) "Comparison of the Hysteresis Response of Super-Coiled Polymer Actuators." *ASME Journal of Computational and Nonlinear Dynamics* 18(8): 081012. DOI:10.1115/1.4062660

Koonj Beharry, A., **Pemberton, C.**, and **Pun, K.F.** (2023) "A review of the cluster process to guide agro-cluster development in Trinidad and Tobago". *Industrial Engineering and Management Journal*, Vol.2, June/July , pp.59-68.

Mahabir, R. and **Pun, K.F.** (2022) "Improving CMMS-integrated equipment reliability in compliance with the ISO 41001: 2018 standard: A case study." *Industrial Engineering and Management Journal*, Vol.1, No.2, December ; pp.62-72.

Mahabir, R. and **Pun, K.F.** (2022) "Revitalising PMO operations in an engineering-service contractor organisation: A key performance indicators-based performance management approach." *Business Process Management Journal*, Vol.28, No.4, pp.936-959 (ISSN 1463-7154) - BPMJ-10-2021-0655; <https://doi.org/10.1108/BPMJ-10-2021-0655>.

Marquez, A., Mencia, M., and **Maharaj, C.** (2023). "Failure analysis of a Stainless Steel hip implant". *Journal of Failure Analysis and Prevention*. 23: p. 846–852.

Marquez, A., Ramoutar JS., and **Maharaj, C.** (2023) "Inspection Analysis of Crude Oil Pipelines—Damages, Failures and Preventive Program". *Journal of Failure Analysis and Prevention*. 23, p. 700–710.

McLean, S.N. and **Pun, K.F.** (2022) "Adopting risk management approach in public infrastructure project delivery: An exploratory study in Guyana." *Journal of the Association of Professional Engineers of Trinidad and Tobago*, Vol.50, No.2, October, pp.36-45 (ISSN 1010-7924).

**Murray, R.J.** (2023). "Energy, Emissions and Exergy Analyses of Ethanol-Biodiesel-Coconut Oil Ternary Fuel Blends and Comparative Assessment of Their Performance in Compression Ignition Engines". *West Indian Journal of Engineering*, 45(2), 57-67.

**Ojha, K.** and Khan, S., (2023). "A Case Study of Safety, Theft and Vandalism on Digicel Cellular Sites at Trinidad and Tobago". *Int. J. of Management Concepts and Philosophy*, DOI: 10.1504/IJMCP.2023.10054576

**Ojha, K.** and Rodney, K., (2023). "Applying Lean Practices in Vehicle Maintenance Services at Massy Motors in Trinidad and Tobago". *Int. J. of Services, Economics and Management*

**Pun, K.F.** (2022) "An introduction of integrating value management into quality and resilience practices." *Journal of the Association of Professional Engineers of Trinidad and Tobago*, Vol.51, No.1, October, pp.32-37 (ISSN 1010-7924).

Ragoobir, R., and Bachoo, R. (2023) "Cumulative Fatigue Damage of Small-Bore Piping Subjected to Flow Induced Vibration". *West Indian Journal of Engineering*, Vol.46, No.2, July, pp.22-30

Tüfekci, M., Özkal, B., **Maharaj, C.**, Liu, H., Dear J.P., Salles, L., (2023) "Strain-rate-dependent mechanics and impact performance of epoxy-based nanocomposites". *Composites Science and Technology*. 109870

Virgil, C.C-L. and **Pun, K.F.** (2022) "Challenges and strategies for advancing community-based climate adaptation efforts in the Caribbean." *Industrial Engineering and Management Journal*, Vol.1, No.2, December ; pp.14-22.

## Books & Book Chapters

### *Department of Geomatics Engineering & Land Management*

**Kotzebue, J.** (Ed.) (2022). *Towards Sustainable Transport and Mobility: Perspectives on Travelling and Commuting in Small Island States*. Hamburg Hamburg University Press.

### *Department of Electrical & Computer Engineering*

Addison, L., Hosein, G., **Bahadoorsingh, S.**, and **Sharma, C.**, (2022) "Goodness-of-Fit Probabilistic Models for EV Charging in Caribbean Small Island States," in *Towards Sustainable Transport and Mobility, Perspectives on Travelling and Commuting in Small Island States*, J. R. Kotzebue, Ed., Hamburg University Press, pp. 47-64.

### *Department of Geomatics Engineering & Land Management*

**Kotzebue, J.**, & Bryan, K. (2022). Smart Public Transport in Barbados: Experiences with smartphone Applications. In J. R. Kotzebue (Ed.), *Towards Sustainable Transport and Mobility* (pp. 67-82): Hamburg University.

**Kotzebue, J. R.**, & Townsend, T. (2022). Introduction In J. R. Kotzebue (Ed.), *Towards Sustainable Transport and Mobility* Edited by Julia R. Kotzebue (pp. 13-26). Hamburg Hamburg University Press.

# PUBLICATIONS AND CONFERENCES

ONLINE ONLY

**Kotzebue, J.** (2022). "Digital Capacity in Community Transport Development: Experiences from the Man and the Biosphere Area Tobago," in J. R. Kotzebue (Ed.), *Towards Sustainable Transport and Mobility: Perspectives on Travelling and Commuting in Small Island States* (pp. 83-100). Hamburg Hamburg University Press

## Department of Mechanical & Manufacturing Engineering

S. Harrison and J. Bansee and **B. V. Chowdary**. Improvement of Service Operations at a Tyre Servicing Centre: Application of Lean Manufacturing and Lean Digitisation, *Advances in Engineering Research*, Chapter 7, Volume 49, pp. 159-181, Nova Science Publishers, Inc., NY, 2022, ISBN: 978-8-88697-156-9 (with S. Harrison and J. Bansee).

Saraswat, S., **Ojha, K.**, Saraswat, R. (2023). Condition Monitoring of Reciprocating Compressor Using ANN. In: Sikarwar, B.S., Sharma, S.K., Jain, A., Singh, K.M. (eds) *Advances in Fluid and Thermal Engineering. FLAME 2022. Lecture Notes in Mechanical Engineering*. Springer, Singapore. [https://doi.org/10.1007/978-981-99-2382-3\\_3](https://doi.org/10.1007/978-981-99-2382-3_3).

Nathai-Balkissoon, M., and **Pun, K.F.** "E-government of occupational safety and health: Improvement prospects for a developing nation", In: Khosrow-Pour, M. (Eds), *Research Anthology on Changing Dynamics of Diversity and Safety in the Workforce*, Information Resources Management Association/ IGI Global, 2022, Chapter 105, p.2086-2110 (25p) DOI: 10.4018/978-1-6684-2405-6.ch105.

Virgil, C.C-L., and **Pun, K.F.** "Utilising the systems thinking approach to assess the impact of climate change on organisations", In: Manolas, E., and Filho, W.L. (Ed), *The Academic Language of Climate Change: An Introduction for Graduates and Non-Native Speakers*, 2022, Chapter 15, p.97-103; doi:10.1108/978-1-80382-911-120221015.

## Conference Papers & Proceedings

### Department of Chemical Engineering

**A. Osman**, R. Steel, and **R. Ramsook**. (2022) "Net to Gross Changes Defining Compound Clinoforms in Outcrop – The Morne L'Enfer Formation, Trinidad." International Meeting of Applied Geoscience and Energy. AAPG/ SEG, August. (Poster Presentation – Extended Abstract Published)

C. Olariu, R. Steel, Y. Peng, V. Rossi, **A. Osman**, F. Rey, J. Aladullatif. (2022) "Deltas in the Stratigraphic Record: Catching up with the Marine Geologists on Understanding Compound Delta Clinoforms". International Meeting of Applied Geoscience and Energy. AAPG/ SEG, August (Technical Talk – Extended Abstract Published)

**D.P. Chakrabarti** (2022). "Dissolved Oxygen in Gasoline and Tank Corrosion Mendeley Data", V2, <https://dx.doi.org/10.17632/gbk39nspbc.1>

### Department of Civil & Environmental Engineering

A. Kumar, H. Martin, & **L. Leon** (2023). "Concrete Damage Identification for Structural Health Monitoring Using Computer Vision". 11th International Conference on Fiber-Reinforced Polymer (FRP) Composites in Civil Engineering (CICE 2023), Rio de Janeiro, Brazil. (June 21). <https://doi.org/10.5281/zenodo.8066307>

### Department of Electrical & Computer Engineering

**K. Mallalieu** (2022). "The importance of gender perspective in competition policy". 8<sup>th</sup> International Conference on Challenges on Competition in the Digital Environment. October 27

**K. Mallalieu** (2023). "Maritime Rescue Co-ordination Centre (MRCC) & Coast Station Emergency Telecommunications Survey". Spectrum Management Task Force Meeting. Jamaica, 6-8 February

**K. Mallalieu** (2023) "Smart Seas Introduction. P2C Roundtable Five: Developing enabling policies and regulatory frameworks to connect people who are still unconnected through accessible and affordable information and telecommunications technologies". ITU Regional Development Forum (RDF), July 22

K. Sankar, **A. Pooransingh**, S. Ramroop (2023). "Synthetic Data Generation: An Evaluation of the Saving Images Pipeline in Unity." IEEE CPS 27th International Conference on Image Processing, Computer Vision, & Pattern Recognition, IPCV'23 Las Vegas, USA, July 24-27.

**M.L. George** (2023) "Effective Methodology for Teaching Ethics to Electrical and Computer Engineering Graduates – Planning & Strategy Development." 2023 International Conference on Teaching, Education and New Learning Technologies (ICTENLT), June.

S. Ragoonath, and **S. Rocke** (2023). "IRS-Aided Cyclostationary Spectrum Sensing in Dynamic Spectrum Access Networks." 2023 International Conference on Green Energy, Computing and Intelligent Technology (GEnCITY), Johor, Malaysia, July 10-12: 1-12.

A. Roopnarine, and **S. Rocke** (2023). "Deep Learning Based Bioimpedance Spectroscopy Using Start of Frame Delimiter in Human Body Communication." 2023 International Conference on Green Energy, Computing and Intelligent Technology (GEnCITY), Johor, Malaysia, July 10-12: 1-12.

A. Tang Foon, and **S. Rocke** (2023). "Analysing the Hypoglycaemic Risk of Implantable Glucose Biofuel Cells in Type 2 Diabetic Patients Using Glucose-Insulin Simulation Models." 2023 IEEE International Conference on Bio-engineering for Smart Technologies (BioSMART 2023), Paris, France, June 7-9: 1-4.

S. Ghool, and **S. Rocke** (2023). "Exploring the Effectiveness of LSTM and Self-Attention Models for Artifact Detection in PPG Signals." 2023 IEEE International Conference on Bio-engineering for Smart Technologies (BioSMART 2023), Paris, France, June 7-9: 1-4.

M. Mahadeo, A. Roopnarine, and **S. Rocke** (2023). "Investigating the Impact of Mechanical Deformation on Non-Invasive Serum Glucose Sensing Using a Double U-slot Antenna." 2023 IEEE International Conference on Bio-engineering for Smart Technologies (BioSMART 2023), Paris, France, June 7-9: 1-4.

A. Jadoonanan, and **S. Rocke** (2023). "Visual Food Intake Monitoring System for Diabetes Management." 2023 IEEE International Conference on Bio-engineering for Smart Technologies (BioSMART 2023), Paris, France, June 7-9: 1-4.

**J. Persad**, M. Mahadeo, and **S. Rocke** (2023). "Impact of 3D Printed Infill Patterns on Flexible Non-Invasive Serum Glucose Sensor." 2023 IEEE International Conference on Flexible and Printable Sensors and Systems (FLEPS), Boston, MA, July 9-12: 1-4.

E. Jaggernaut, , and **S. Rocke** (2023). "Effectiveness of Paired Next Generation Firewalls in Securing Industrial Automation and Control Systems: A Case Study". International Conference on Computer Applications and Information Science (ICCAIS) 2023, Tunisia, March 3-6.

# PUBLICATIONS AND CONFERENCES

## ONLINE ONLY

**K. Mallalieu** (2023). "Preparing the Workforce for a Tech-Driven Future: EdTech's Role in Skills Development and Lifelong Learning." SmartTerm EdTech Conference, Miami USA, 16 – 19 July.

### *Department of Geomatics Engineering & Land Management*

**C. Griffith-Charles**, S. Elder-Alexander, and A. Naimool-Ramdass (2023). "Land Registration for Conquering New SDG Frontiers." FIG Working Week 2023. Orlando Florida USA 28 May – June 1.

**C. Griffith-Charles** (2023). "Fit for Purpose Land Administration Model. Presented at the Institute of Surveyors of Trinidad and Tobago conference Land Policy for Sustainable Development". UWI Conference Inn, St. Augustine, Trinidad and Tobago. March 22 and 23.

**J.R. Kotzebue** (2022). "La ville résiliente au climat et L'éducation au développement durable" Teaching Climate Change, St Martinique.

**J.R. Kotzebue** (2022). "PGIS Engagement in Integrated Transport Development: The Role of Digital Capacity". 6th International Conference Urban e-Planning, University of Lisbon, Portugal.

**D. Davis, and** Guy, N. (2023). "An assessment of Point Cloud data acquisition techniques for aggregate stockpile volumetric surveys." ASPRS 2023 Annual Conference Proceedings, June.

S. Ramoutar, J. Richardson, and **B. Ramlal** (2023) "Technology Integration, Learner Experience and Cultural Context: A dual case study of US Midwestern Universities and Caribbean universities in Geospatial Education." American Association of Colleges for Teacher Education (AACTE) 75th Annual Meeting, February.

M. Codling, **B. Ramlal**, and **D. Davis** (2022). "Examining the feasibility of GeoAI and IoT for Smart Flood Early Warning Systems for Local Communities in Caribbean Urban Spaces". The Water Efficiency Conference, Water Resources Resilience for Small Island Developing States (SIDS), UWI St. Augustine, December

K. Griffith, and **J.R. Kotzebue** (2023). "E-resilience in Disaster Management- Insights from Trinidad and Tobago." The International Geographical Union (IGU), Thematic Conference on Islands in Relations: Conflicts, sustainability, and Peace Japan, 4-6 April

**J.R. Kotzebue** (2023) "Let Meh Show Yuh" Using 360° Virtual Reality Tours for Integrated Community Planning in Trinidad and Tobago". Caribbean Urban Forum, Suriname.

**J.R. Kotzebue** (2023). "Governing the Unplanned: 360° Virtual Reality Tours For Integrated Informal Community Development in Trinidad and Tobago." 7th International Conference Urban E-Planning Lisbon, 27 - 29 March , (virtual).

### *Department of Mechanical & Manufacturing Engineering*

**A. A. Adeyanju** (2022). "Experimental Analysis and Performance of a Waste Plastics Pyrolysis System for Biofuel Production. 2022 Clearwater Clean Energy Conference." The 46th International Technical Conference on Clean Energy. Sheraton Sand Key, Clearwater, Florida, USA. August 1 to 4

**A. A. Adeyanju** (2022). "Comparisons of Incineration and Gasification Thermal Conversion of Municipal Solid Waste in Trinidad and Tobago." International Conference on Sustainable Energy Information Technology (SEIT 2022), Niagara Falls, Ontario, Canada, August 9-11

**A. A. Adeyanju** (2022). "Performance Comparisons for Low Global Warming Potential Alternative Refrigerants Using CYCLE D-HX." 2nd World Conference on Sustainability, Energy and Environment Berlin, Germany. December 9-11, . <https://www.doi.org/10.33422/2nd.wscee.2022.12.101>

**A. A. Adeyanju** (2023). "Optimisation of an Atmospheric Water Harvesting Device for Potable Water Production." 8th Thermal and Fluids Engineering Conference (Hybrid)" American Society of Thermal and Fluids Engineers (ASTFE). University of Maryland, College Park, MD, USA. March 26-29, (In Print)

**J. Bridge, and A. Jadoonanan** (2023). "Analysis of a Dielectric Elastomer operating in a Spherical Cap Shape", Proceedings of the 29th International Congress on Sound and Vibration, Prague, Czech Republic, July 9-13

S. Harrison, and **B. V. Chowdary**, (2022). "Exploring Applications of Industry 4.0 and Lean Manufacturing Techniques Within a Product Label Manufacturer: A Simulation Case Study, Automation, Robotics & Communications for Industry 4.0/5.0 (ARCI' 2023)" 3rd IFSA Winter Conference on Automation, Robotics & Communications for Industry 4.0/5.0 (ARCI' 2023), pp.88-91. Chamonix-Mont-Blanc, France, February 22-24, 2023

K.N. Hassanali, K.S. Mohammed, and **K.F. Pun** (2022) "Implementation of a metrics-based productivity model for the prevention of project delays: A case study" *IEM5-2022 Conference*, ISBN 978-976-620-305-4, Ref. ID: IEM5-029; pp.192-179. The University of the West Indies, St Augustine, Trinidad and Tobago, November

K.N. Hassanali. and **K.F. Pun** (2023) "A productivity framework for establishing project sustainability in industrial firms in Trinidad and Tobago" IISE Annual Conference and Expo, ID: 872 (6 pages) Hyatt Regency, New Orleans, Louisiana, May 20-23

K.N. Hassanali. and **K.F. Pun** (2022) "Design of a productivity model for managing capital investment projects in industrial firms: A metrics-based approach" IEM5-2022 Conference, ISBN 978-976-620-305-4, Ref. ID: IEM5-028; pp.163-171. The University of the West Indies, St Augustine, Trinidad and Tobago, November

K.N. Hassanali. and **K.F. Pun** (2022) "The ontology of delays and the emergence of productivity factors: A paradigm for enhancing project execution", IEM5-2022 Conference, ISBN 978-976-620-305-4, Ref. ID: IEM5-027; pp.154-162. The University of the West Indies, St Augustine, Trinidad and Tobago, November

K.N. Hassanali. and **K.F. Pun** (2023) "A productivity framework for establishing project sustainability in industrial firms in Trinidad and Tobago" IISE Annual Conference and Expo, Hyatt Regency, New Orleans, Louisiana, May 20-23

S. Jaggernath-Furlonge, and **K.F. Pun** (2022) "Incorporating VUCA and digitalisation capabilities into resilience organisations: A multi-dimensional approach", IEM5-2022 Conference, Ref. ID: IEM5-017; , ISBN 978-976-620-305-4, pp.79-87. The University of the West Indies, St Augustine, Trinidad and Tobago, November

# PUBLICATIONS AND CONFERENCES

ONLINE ONLY

A. Koonj Beharry, and **K.F. Pun** (2022) "The contextual perspectives of innovation processes at the firm's level: A review" IEM5-2022 Conference, ISBN 978-976-620-305-4, Ref. Abstract ID: IEM5-018; pp.88-95. The University of the West Indies, St Augustine, Trinidad and Tobago, November

**K. Manohar, A. Adeyanju and Rikhi Ramkissoon** (2022) "Potable Water Resources – Efficiency of Solar Still Design." International Conference on Contemporary Issues in Science, Engineering and Technology (ICCISSET) New York, USA, December 17 -18

R. Mahabir, and **K.F. Pun**, (2022) "Improving CMMS-integrated equipment reliability and availability with the ISO 41001:2018 standard compliance at an industrial organisation: A Case Study" IEM5-2022 Conference, ISBN 978-976-620-305-4, Ref. ID: IEM5-024; pp.127-135. The University of the West Indies, St Augustine, Trinidad and Tobago, November

A. Mohammed, and **B. V. Chowdary** (2023) "Enhancement of Compressive Strength for FFF based ABS Components: Application of RSM and ANN Technique" First International Conference on Advanced Materials, Manufacturing and Industrial Engineering (AMMIE 2023), March 23-24

**K.F. Pun** (2022) "Exploring value management applications in organisations: A CRPF project agenda Fifth Industrial Engineering and Management" (IEM5-2022) Conference on Emerging Research and Practices in Engineering Resilience and Management, ISBN 978-976-620-305-4, Ref. ID: IEM5-013, pp.54-61. The University of the West Indies, St Augustine, Trinidad and Tobago, November

L.F. Quildon, and **K.F. Pun** (2022) "A SME's transition to service diversification in the leisure marine services cluster in Trinidad and Tobago: A proposed approach" IEM5-2022 Conference, ISBN 978-976-620-305-4, Ref. ID: IEM5-015, pp.70-77. The University of the West Indies, St Augustine, Trinidad and Tobago, November

L.F. Quildon, and **K.F. Pun** (2023) "Aligning value creation and SME competitiveness in the export of maritime services: Empirical evidence from Trinidad and Tobago" PICMET'23 (Portland International Center for Management of Engineering and Technology) Conference, (paper ID: 23R0114). Monterrey, Mexico, July 23-27

R. Ragoobir and **R. Bachoo** (2022) "Cumulative Fatigue Damage of Small-Bore Piping Subjected to Flow-Induced Vibration." Water Resources Resilience for Small Island Developing States (SIDS), 101

R. Sinanan and **R. Bachoo**. (2022) "A Review of the Vibration Analysis Methods for Frame Structures." 2022 BUDAPEST 35th Int'l conference on "Science, Engineering, Technology & Natural Resources" (BSETN-22) Budapest, Hungary September 12-14

S. Saraswat, **K. Ojha** and R. Saraswat (2023) "Designing database system for reliability, availability, maintainability and supportability (RAMS) analysis program for an industrial application." Conference proceedings of ICDM

C.C. Virgil, and **K.F. Pun** (2022) "Integrating impact assessments with systems thinking: An approach for examining the effects of climate change on organisations" Conference on Sustainable Systems – Importance of Systems Thinking and Practice. The University of Portsmouth (UK Systems Society), December 7



C.C. Virgil, and **K.F. Pun**, (2023) "A transdisciplinary and trans-sectorial approach for utilising mangrove forests to protect coastlines in Trinidad and Tobago" First Conference on Identification, Protection, Restoration, and Management of the Greater Caribbean Beaches, (IPReM 2023), <http://csc.acsaec.org/> "Ciudad del Saber" (City of Knowledge), Panama City, Panama, June 28-30,

E. Yorke, and **B.V. Chowdary** (2023) "Investigating the Performance of Physically Modelled Process Parameters for FFF Application," First International Conference on Advanced Materials, Manufacturing and Industrial Engineering (AMMIE 2023), March 23-24.

## Patents & Technical Reports

### *Department of Civil & Environmental Engineering*

#### **PATENTS**

**Chadee A.A., Banerjee K.S.**, Goolcharan S., Prasad C.V.S.R. (2023). Surveyor's Wheel. Patent number 376970-001. Designs Act, 2000 and the Designs Rules, 2001. Certificate of Registration of Design, The Patent office, Govt of India, Dated 08.01.2023. ([https://search.ipindia.gov.in/DesignQRStatus/PDF\\_Viewer.aspx?AppNo=Mzc2OTcwLTAwMQ==&CNo=MTQwODU0](https://search.ipindia.gov.in/DesignQRStatus/PDF_Viewer.aspx?AppNo=Mzc2OTcwLTAwMQ==&CNo=MTQwODU0))

**Chadee A. A.**, Rampair, R., Goolcharan, S., **Olutoge, F. A.** (2022). "Development of Eco-friendly Recron Fiber-reinforced Concrete for a Futuristic Technology. Publication date: 2022/12/04, Patent office: India, Patent number: 202241069908.

**Chadee A. A., Banerjee, K. S., Olutoge, F. A.**, Prasad, C. V. S. (2022). Development of Translucent Lightweight Litracon Concrete for Construction Industry. Publication date: 2022/11/25, Patent office: India, Patent number: 202241067779.

Development of Concrete Mix with Fly Ash and Treated Chips, **Chadee A.A.**, Sudama G., Narasimhulu K., Sagar H.M., Gawatre D.W., Bhende S.S., Reddy T.S., and Raju H.P. 2023441004248, Office of Controller General of Patents, Design and Trade Marks.

**Lee P. Leon** (14/10/2022) Gene Expression Programming Computing Techniques for Evaluation of Aggregate Angularity Effects on Permanent Deformation of Asphalt Mixtures. Intellectual Property INDIA, # 2202241055178.

**Azamathulla, H.M., Lee P. Leon**, Prashant Birbal (23/09/2022) Gene Expression Programming Computing Techniques in Hydraulic Engineering. Intellectual Property INDIA, # 202241053325.

#### **TECHNICAL REPORTS**

**Leon, L.P.** (2023). Fracture Behavior of Bitumen Stabilized Material Using the SCB Test. 11th International Road Federation (IRF) Caribbean Regional Congress, June 2023, Paradise Island, The Bahamas.

**Leon, L.P.** (2023). Evaluating Rainfall and Temperature Trends in the Small Island Developing State of St. Lucia Using Nonparametric Statistics and Soft Computing. ASCE - 2023 World Environmental & Water Resources Congress (EWRI 2023) – Adaptive Planning and Design in an Age of Risk and Uncertainty, May 2023, Henderson, Nevada, USA.

# PUBLICATIONS AND CONFERENCES

ONLINE ONLY

**Leon, L.P.** (2023). Application of soft computing techniques and Arc-GIS in a holistic sense for the development of future rainfall maps: case study the island of St Lucia. ASCE - 2023 World Environmental & Water Resources Congress (EWRI 2023) – Adaptive Planning and Design in an Age of Risk and Uncertainty, May 2023, Henderson, Nevada, USA.

**Leon, L.P.** (2023). Sustainable Road Pavements. Institutional visit at Department of Civil Engineering, Universidad del Norte (UNINORTE), Colombia.

**Leon L.P.** (2023). Climate Change Challenges and Its Impact on English-Speaking Caribbean Infrastructure. Institutional visit at Department of Civil Engineering, Universidad del Norte (UNINORTE), Colombia.

**Clarke, R.** (2022). Post-Fire Assessment of the Lloyd Brathwaite Student Administration Building”.

**Smith, J.** (2022). Engineering review of Church Buildings and Renovation Projects for the Moravian Church Eastern West Indies Province”.

## *Department of Electrical & Computer Engineering*

### TECHNICAL REPORTS

**Bahadoorsingh, S.** Emobility Readiness Assessment for Trinidad and Tobago – Energy Sector Impact, UNDP TT, October 2022.

**Bahadoorsingh, S.** Emobility Readiness Assessment for Trinidad and Tobago – Charging Infrastructure Investment, UNDP TT, August 2022.

## FACULTY OF FOOD & AGRICULTURE

### Journal Publications

Lakhan, C.; **Badrie, N.**; Ramsubhag, A.; Indar, L. (2023). “Direct outpatient cost per case of acute gastroenteritis in Trinidad and Tobago 2021”. Journal of Food Protection, USA. Journal of Food Protection, 86(1), p.100009. <https://doi.org/10.1016/j.jfp.2022.11.002> <https://doi.org/10.1016/j.jfp.2022.11.002> 86 (1): 100009 <https://www.sciencedirect.com/science/article/pii/S0362028X22000096?via%3Dihub>.

Bhagtani, D., Augustus, E., Haynes, E., Iese, V., Brown, C.R., Fesaitu, J., Hambleton, I., **Badrie, N.**, Kroll, F., Saint Ville, A., Samuels, T.A., Fourouhi, N.G. Benajamin-Neelon, S., and Unwin, N. (2022) “Dietary Patterns, Food Insecurity, and their Relationships with Food Sources and Social Determinants in Two Small Island Developing States”. Nutrients 14(14), 2891; <https://doi.org/10.3390/nu14142891> [https://www.mdpi.com/2072-6643/14/14/2891/review\\_report](https://www.mdpi.com/2072-6643/14/14/2891/review_report)

Guell, C., Brown, C. R., Navunicagi, O.W., Iese, V., **Badrie, N.**, Wairu, M., Saint Ville, A. and Unwin, N. on behalf of the Community Food and Health (CFaH) team (2022) “Perspectives on Strengthening Local Food Systems in Small Island Developing States.” Food Security. Food Security-to Food Security: The Science, Sociology and Economics of Food Production and Access to Food. Food Security 2022 May 4: 1–14. <http://doi:10.1007/s12571-022-01281-0> <https://link.springer.com/content/pdf/10.1007/s12571-022-01281-0.pdf> <https://link.springer.com/article/10.1007/s12571-022-01281-0>

Leon, E., **M. Hughes and O. Daley**. (2023). "Brachiaria Hybrid and Pennisetum purpureum Supplemented with Pueraria phaseoloides Increased the Concentration of Rumen-Undegradable Protein in Forages for Ruminants". *Grasses*, 2, 207–217. <https://doi.org/10.3390/grasses2040016>

Birmingham, T. and **M. Hughes**. (2023). "Nitrogen and crude protein fractions of commercial concentrate feeds formulated for ruminants in Trinidad and Tobago varies with feed types". *Tropical Agriculture (Trinidad)*, 100: 97 - 105

Wang, J., Liu, J., **John, A.**, Jiang, Y., Zhu, H., Yang, B., and Wen, L. (2022). "Structure identification of walnut peptides and evaluation of cellular antioxidant activity". *Food Chemistry*, Volume 388, 15 September 2022, 132943. (IF 7.514; Citations: 0) <https://doi.org/10.1016/j.foodchem.2022.132943>

**Daley, O., Roopnarine, R., Isaac, W.-A.P., Palmer, D., John, A., Webb, M.**, et al. (2023). "Assessment of consumers' knowledge, attitude and perception of the impact of the COVID-19 pandemic on household food security in Caribbean Small Island Developing States." *Frontiers in Sustainable Food Systems* 7.

Omuto, CT, Scherstjanoi, M, Kader, M., Musana, Barman, A5, Fantappiè, M6, Jiménez, LS, Jimenez, W. A8, Figueredo, H, Balta, R, Santander, K, Malatji, A, Nahar, A, Kairat, A, Ahmadzai, H, Morisson, J, Stone, S, **Roopnarine, R, Eudoxie, G**, Phy, C, Khat, P, Seng, V, Janjirawuttikul, N18., Tina, M. Farradas, M20, Alferihat, M21, Desire, K22, Jayeoba, O.J, Loum, M, Ahmad, W, Al Rasbi, A. S, Matolo, N. (2023) "Harmonization service and global library of models to support country-driven global information on salt-affected soils." *Nature Scientific Reports Sci Rep* 13, 13157 (2023). IF-4.39 DOI: <https://doi.org/10.1038/s41598-023-40078-9>

**Roopnarine, Ronald**, Adrian Cashman, **Gaius Eudoxie**, Sara-Jade Govia, Crisanne Davis-Rostant, Renee Jackson, and Akil Cric. (2023) "The impact of COVID-19 and natural disasters on water consumption across sectors: case studies of Barbados and Trinidad and Tobago." *H2Open Journal* 6, no. 1 : 15-28. IF 2.15 DOI: <https://doi.org/10.2166/h2oj.2023.059>

**Ronald Roopnarine**, Kervelle Baird, Mikella Hosein, Renee Jackson, Shehnaaz Salim, Anisha Cephas, **Oral Daley**, Samantha Gangapersad, Sara-Jade Govia, Adrian Cashman, Akil Crichlow, Federick Pinongcos (2023) "Integrating wastewater reuse into water management schemes of Caribbean SIDS: a Trinidad and Tobago case study". *Water Policy* wp2023174. doi: <https://doi.org/10.2166/wp.2023.174>

**Saravanakumar, D.**, Bartholomew, E.S., Seepersad, G., Gore-Francis, J., Goldsmith, J., Ramnanan, N., Chang, P.G., Bridgemohan, P., Sewsaran, R. and Medrano-Cabral, S., 2023. Prioritization of quarantine pest list for the Caribbean using a multi criteria decision approach. *Neobiota*, 4, p.e103062.

Smith, J., **Saravanakumar, D.** (2022). "Development of resistance in tomato plants grafted onto *Solanum torvum* against bacterial wilt disease." *Journal of Plant Disease Protection* 129, 1389–1399.

**Thomas, A., Saravanakumar, D.** (2023). "First report of *Sclerotium rolfsii* (*Athelia rolfsii*) causing basal rot in lettuce in Trinidad". *Journal of Plant Pathology* 105:611.

Rigobelo, E.C., Kandasamy, S. and **Saravanakumar, D.**, (2023). "Plant growth-promoting microorganisms for sustainable agricultural production, volume II". *Frontiers in Sustainable Food Systems*, 7, p.1179222.

# PUBLICATIONS AND CONFERENCES

ONLINE ONLY

Bekele, F, Bidaisee G, Allegre M, Argout X, Fouet O, Boccara M, **Saravanakumar D**, Bekele I, Lanaud, C. (2022). "Genome-wide association studies and genomic selection assays made in a large sample of cacao (*Theobroma cacao* L.) germplasm reveal significant marker-trait associations and good predictive value for improving yield potential". PLOS ONE. PLoS ONE 17(10): e0260907. <https://doi.org/10.1371/journal.pone.0260907>

Dolly, Daryian A., and **L. Tardieu**. (2023). "Carcass Characteristics and Nutritional Profile of Wild *Caiman crocodilus* (Spectacled Caiman) Meat". *Emerging Animal Species: 100032*. <https://doi.org/10.1016/j.eas.2023.100032>

**Wuddivira, M. N.**, Bramble, D. S. E., Ramlochan, A., **Gouveia, G. A.**, Francis, R. C., and De Caires, S. A. (2023). "Effects of sample mass and suspension salinity on particle size distribution in predominantly medium to heavy textured soils using the hydrometer method". *Journal of Plant Nutrition and Soil Science* (Wiley). <https://doi.org/10.1002/jpln.202300088>. IF 2.5; Citation=0

Francis, J.R. **Wuddivira, M.N.** and Farrick, K.K. (2023). "Reforestation degraded hillslopes with exotic pines in Trinidad and Tobago: Infiltration, repellency and implications for runoff and recharge". *Journal of Hydrology* (Elsevier), 622:129650. IF 6.4; Citation=1

**Wuddivira, M.N.**, De Caires, S.A., Joseph, J. Atwell, M., Lewis-Cameron, A. (2023). "An influencer pathway framework for sustainable tourism in SIDS ecotourism hotspots: A case of Aripo ecosystems, Trinidad". *Frontiers in Sustainable Tourism*. <https://doi.org/10.3389/frsut.2023.1117006>.

Atwell, M.A., **Wuddivira, M.N.**, Fiedler, S., Oatham, M., Herrmann, L., Glasner, B, Vetter, V., and Jungkunst, H.F. (2023). "Influence of Soil Geomorphic Factors on Vegetation Patterns in a Model White Sands Ecosystem Complex". *Catena* (Elsevier), 225: 107044. <https://doi.org/10.1016/j.catena.2023.107044>. IF 6.367; Citation=1

De Caires, S., St. Martin, C., **Wuddivira, M.N.**, Zebarth, B.J., and Farrick, K.K. (2023). "Predicting soil depth in a humid tropical watershed: a comparative analysis of best-fit regression and geospatial models". *Catena* (Elsevier), 222: 106843. <https://doi.org/10.1016/j.catena.2022.106843>. IF 6.367; Citation=2

Francis, J.R., **Wuddivira, M.N.**, and Farrick, K.K. (2022). "Exotic tropical pine forest impacts on rainfall interception: Canopy, understory, and litter." *Journal of Hydrology* (Elsevier), 609: 127765. <https://doi.org/10.1016/j.jhydrol.2022.127765>. IF 5.722; Citation=6

Melville, T., **Wuddivira, M.**, Sutherland, M. (2022). "Geospatial modelling of rainfall erosivity in the humid tropics using remotely sensed data." *Earth Science Informatics* (Springer). <https://doi.org/10.1007/s12145-022-00773-z>. IF 2.878; Citation=1

Thomas, A., **M. Hughes** and J. V. Smith. (2022). "Protein requirement of the juvenile male red-rumped agouti (*Dasyprocta leporina*) fed diets formulated with tropical forages". *Tropical Agriculture* (Trinidad), 99: 363 - 371

Leon, E., M. **Hughes and O. Daley**. (2022). "Nutritive value and herbage mass of *Pueraria phaseoloides* (tropical kudzu) in unutilized open grasslands in northeastern and central Trinidad." *Journal of the Saudi Society of Agricultural Science*. <https://doi.org/10.1016/j.jssas.2022.05.002>

**Hughes, P. M.**, V. Mlambo and C. H. O. Lallo. (2022). "Optimum nitrogen fertilization rate and nitrogen use efficiency for Brachiaria hybrid and Megathyrus maximus varies with stage of regrowth." *Journal of the Science of Food and Agriculture Reports*, DOI: 10.1002/jsf2.37

Peters, C. K., **M. P. Hughes** and **O. Daley**. (2022). "Field-scale calibration of the PAR Ceptometer and FieldScout CM for real-time estimation of herbage mass and nutritive value of rotationally grazed tropical pasture." *Smart Agricultural Technology*, 2 DOI 10.1016/j.atech.2022.100037

**Tardieu, L.** and **G.W. Garcia**. (2022). "Wildlife for sustainable food production, an assessment of two neo-tropical species production models. Conference Proceedings. Celebrating 100 Years of Agricultural Research and Innovation (10-11 Nov 2021)." *Tropical Agriculture* pgs.86-92. <https://online.pubhtml5.com/vilk/tcus/#p=1>

**Daley, Oral O.**, Laura B. Roberts-Nkrumah, Angela T. Alleyne, and Michael C. Gloster. (2022). "Folk nomenclature and traditional knowledge of breadfruit [*Artocarpus altilis* (Parkinson) Fosberg] diversity in four Anglophone Caribbean countries." *Journal of Ethnobiology and Ethnomedicine* 18 (1):65. doi: 10.1186/s13002-022-00562-4.

**Daley, O., W. A. Isaac, A. John,** and **R. Roopnarine**. (2022). "Home gardeners' knowledge and perception of growing practices and diversity of fruit species in Trinidad and Tobago." *Acta Horticulturae* 1345:105-114. doi:10.17660/ActaHortic.2022.1345.14.

**Daley, O., Isaac, W.A.P., John, A., Roopnarine, R.** and Forde, K. (2022). "An Assessment of the Impact of COVID-19 on the Agri-Food System in Caribbean Small Island Developing States." *Frontiers in Sustainable Food Systems* 6 (861570):1 - 15. doi: 10.3389/fsufs.2022.861570.

Roopnarine, C., Ramlal, B., & **Roopnarine, R.** (2022). "A Comparative Analysis of Weighting Methods in Geospatial Flood Risk Assessment: A Trinidad Case Study". *Land*, 11(10), 1649. IF-3.9, Citations-2. DOI: <https://doi.org/10.3390/land11101649>

Lakhan, C.; **Badrie, N.**; Ramsubhag, A.; Indar, L. (2022) "Detection of foodborne pathogens in acute gastroenteritis patient's stool samples using the BioFire® FilmArray® Gastrointestinal PCR Panel in the Republic of Trinidad and Tobago, West Indies." *Microorganisms* 2022, 10, 1601. <https://doi.org/10.3390/microorganisms10081601>; <https://www.mdpi.com/2076-2607/10/8/1601>.

## Books & Book Chapters

**Badrie, N.** (2023). "Eco-friendly, non-thermal postharvest disinfection applications to fruits and vegetables: Produce safety and quality." *Chapter 5* In: *Postharvest Physiology and Eco-Friendly Innovative Handling of Fruits and Vegetables. Chapter 5*, pp. 102-132. Editor Ibrahim Kahramanoglu, Head of the Department of Horticulture, Faculty of Agricultural Sciences and Technology | European University of Lefke | <http://www.eul.edu.tr99780> PK, Gemikonagi | Northern Cyprus Mersin. CRC Press/Taylor & Francis Group.

# PUBLICATIONS AND CONFERENCES

ONLINE ONLY

**Badrie, N.** (2023). "Eco-friendly, nano-enabled applications in postharvest handling of fruits and vegetables: Quality and safety of produce." Chapter 8, pp. 196-232. In: *Postharvest Physiology and Eco-Friendly Innovative Handling of Fruits and Vegetables*. Chapter 7. Editor Ibrahim Kahramanoğlu, CRC Press/Taylor & Francis Group.

**Daley, O., Isaac, W. P., and John, A.** (2023). "Postharvest Physiology of Fruits and Vegetables." In *the Postharvest Physiology and Eco-Friendly Innovative Handling of Fruits and Vegetables*, edited by İbrahim Kahramanoğlu.

Campo, K. R., **Isaac, W-A.**, Badrie, N. and Webb, M. (2023). "Integration of Small-Scale Aquaculture with Female-Headed Homesteads for Improved Household Food Security and Nutrition of Women and Children in Rural Trinidad-Mayaro. Beyond the Fields and Tables: Contributions to Health, Nutrition and Well Being in the CARICOM region (abstract)." In *Beyond the Kitchen Table: Black Women and Global Food Systems*. Editors Priscilla McCutcheon, Latrica E.Best and Theresa Ann Rajack-Talley. The University of North Carolina Press, Chapel Hill, NC.304pp. Published online. <https://uncpress.org/book/9781469675954/beyond-the-kitchen-table/>

**John, A., Daley, O., and Isaac, W. P.** (2023). "Biological and Environmental Factors Affecting Postharvest Quality." In *the Postharvest Physiology and Eco-Friendly Innovative Handling of Fruits and Vegetables*, edited by İbrahim Kahramanoğlu.

## Conference Papers & Proceedings

**Hughes, P. M.** (2023). "Towards the development of an operational framework for communal forage banks for smallholder ruminant farmers in the Caribbean: A focus group approach." Conference of the Caribbean Agricultural Extension Provider's Network (CAEPNet) and the 56th Annual Meeting of the Caribbean Food Crops Society (CFCS), Grand Anse, Grenada from July 10-14.

De Souza, G. and **Eudoxie, G.** (2022). "Increasing cassava yield and quality on acid tropical soils. Global Symposium on Soils for Nutrition", FAO, Virtual. July 26-29, 2022.

**Roopnarine R.** (2023). "KAP Assessment of Wastewater Reuse in Trinidad and Tobago." Caribbean Water and Wastewater Association 32nd Annual Conference and Exhibition Accelerating Change in the Water, Wastewater, and Solid Waste Sectors 23 - 27 OCTOBER 2023, George Town, Guyana

## FACULTY OF HUMANITIES & EDUCATION

### Journal Publications

#### *Department of Literary, Cultural and Communication Studies*

**Amaye, M.** (2022) "Josephine's Bed." *Midnight & Indigo*. Volume 1, Issue 8

**Brunton, D.W.** (2022). "The digital Creole." *International Journal of Cultural Studies*, 25(5), 492–499. <https://doi.org/10.1177/13678779221102516>

**Burke, S.** (2023) "Introduction: "Dreadness: The Mystical Power, Philosophy and Performance of Shadow: 1942-2021." *Tout Moun: Caribbean Journal of Cultural Studies*, Issue 7(1), 2022, pp 2-6. Co-edited with Granger, C., Matthews, D. and Regis, H.

**Granger, C.** (2022) "To Refuse Being a Problem: Practicing Conviviality to Elude Ethnocentrism" in Abdali, Dastan, et al. "Book Forum: Francio Guadeloupe, Black Man in the Netherlands: An Afro-Antillean Anthropology" *Conflict and Society* 8.1: 275-306 (University of Mississippi Press). <https://www.berghahnjournals.com/view/journals/conflict-and-society/8/1/arcs080117.xml?rskkey=wLRpn1&result=1>

**Granger, C.** (2022) International Council for Traditional Music (ICTM) Dialogues series. Panel on "Working Together? Interrogating Collaboration towards Decolonizing Music and Dance Research". Digital publication Ch. 14 (<https://ictmdialogues.org>)

**Jackson, E.** (2022) "Problematizing National /Cultural Affiliations in Postcolonial Literature: Inclusions and Exclusions in the Reception of Doris Lessing and V.S. Naipaul." *Journal of Commonwealth Literature* 57.1: 32-46.

**Jackson, E.** (2022) "Cosmopolitan Attitudes and Cosmopolitan Identities in Amitav Ghosh's *The Shadow Lines*." *South Asian Review* 43.3-4, 2022: 171-183.

**McNeal, K. E.** (2023) "Lawfare and the Global Dialectics of Homophobia and Homonationalism in Trinidad and Tobago." *Sexuality & Culture* 27(6): 2105-2128.

**McNeal, K. E.** (2023) "Big Pride, Little Pride, and the Cunning of (In)Visibility in the Southern Caribbean: The Case of Trinidad & Tobago Pride #PrideTT." *lambda nordica* 28(2): 145-173

**Smith, A.** (2023) "HIV Reporting: A Quantitative Study of the Gleaner Company (Media Limited)." *Tout Moun, Caribbean Journal of Cultural Studies* 8

## SCHOOL OF EDUCATION

Abdul-Majied, S., & **Figaro-Henry, S.** (2023). "Zoom-ing with Padlet: Overcoming challenges to deliver emergency remote teaching to young learners in Trinidad." *Journal of Early Childhood Research*, 1-14. <https://doi.org/10.1177/1476718X231195705>

Birbal, R., Hewitt-Bradshaw, I., & **James, F.** (2023). "Student voice as inclusive curricular practice in a technology course." *Caribbean Curriculum* 29 165-186.

# PUBLICATIONS AND CONFERENCES

ONLINE ONLY

**De Lisle, J.** (2022). "Insights into beliefs on 11+ testing in Trinidad and Tobago through an interpretation/use argument." *Studies in Educational Evaluation*, 73, Retrieved from <https://www.sciencedirect.com/science/article/abs/pii/S0191491X22000189>

**Dedovets, Z.,** & Rodionov. M.(2023). "Diagnosis of the Motivational Potential of the Educational Environment through the Qualimetric Model." *International Research Journal of Advanced Engineering and Science (IRJAES)-ISSN* (Online): 2455-9024 <https://irjaes.com/volume-8-issue-2/> (impact factor 7.32)

**Dedovets, Z.,** Rodionov. M., & Novichkova, A. (2023). "A Model for Teaching Mathematics to Gifted Students Based on an Effective Combination of Various Approaches for their Preparation." *Advances in Science, Technology and Engineering Systems Journal (ASTESJ)*, 8 (1), <https://www.astesj.com/v08/i01/> (impact factor 0.59)

**Jaggernaut, S. J.** (2023). "From Crisis to Crisis... to Resilience: An Autoethnographic Tale of Self-Discovery." In *Female Academics' Resilience during the COVID-19 Pandemic: Intercultural Perspectives* (pp. 193-223). Cham: Springer International Publishing.

**James, F.** & Pierre, L. (2022). "A Multi-Tiered Professional Learning Approach to Build Middle Leaders' Capacities to Lead During Times of Crisis and Beyond." In *Handbook of Research on Activating Middle Executives' Agency to Lead and Manage During Times of Crisis* (pp. 250-273). IGI Global.

**James, F.,** Massiah, A., Pierre, L. A., Richardson, C., & Williams, J. (2022). "Leading classroom instruction during the COVID-19 Pandemic and preparation for face-to-face reopening: Caribbean teachers' experiences." *School Leadership & Management*, 1-22.

Jennings, Z., Cook, L., & **Seunarinensingh, K.** (2023). "Students' perceptions of quality education in secondary schools in the commonwealth Caribbean: Country, school type and gender differences." *Journal of Education and Development in the Caribbean*, 20 (1 &2), 195-233. Advance online publication. <https://www.mona.uwi.edu/soe/publications/jedic/article/1621>

**Maharaj-Sharma, R.,** (2022). "Using Storytelling to Teach a Topic in Physics." *Education Inquiry* (Taylor & Francis Online). Published online on 22 June 2022. <https://doi.org/10.1080/2004508.2022.2092977>

Medford, G. & Lee-Piggott, R. (2022). "Improving one teacher's instructional practice using clinical supervision: An action research study for teaching in 21st century classrooms." *Caribbean Curriculum*, 29, 128-164. <https://journals.sta.uwi.edu/ojs/index.php/cc/article/view/8089/7054>

Mohammed, R. & **De Lisle, J.** (2023). "The challenge of effective data use within primary schools situated in a post-colonial learning context: A qualitatively driven mixed methods study." *Caribbean Curriculum*, 29, 30-67.

**Nazir, J** (2022). "Connecting the Dots Among Science, Education, and STEM." *Canadian Journal of Science Mathematics and Technology Education*, 22, 931-937. <https://doi.org/10.1007/s42330-022-00248-9>



**Nazir, J.,** & Harry, S.N. (2023). "Uncovering environmental and sustainability education themes in Caribbean secondary education certificate (CSEC) English literature." *Environmental Education Research*, 29(7), 951-963. DOI: 10.1080/13504622.2022.2044455

**Pierre–Robertson, P.** (2023), "#SuperLibrarian – the evolving role of librarians in technology spaces", *Digital Library Perspectives*, Vol. 39 No. 4, pp. 620-627. <https://doi.org/10.1108/DLP-04-2023-0026>.

**Seunarinesingh, K.** (2023). "Students' argumentative writing proficiency at two high-performing, traditional schools in Trinidad and Tobago." *Caribbean Journal of Education*, 45(1). Advance online publication. <https://www.mona.uwi.edu/soe/publications/cje/article/1637>

## CENTRE FOR LANGUAGE LEARNING

**Mideros, D.** (2022). "Teacher Roles in Promoting Out-of-Class Learning: Lessons from a Spanish for Specific Purposes Course" Special Issue: Papers from the AILA 2021 Symposium. *Studies in Self-Access Learning Journal*, 13(2), pp. 248-261.

**Roberts, N.** (2022) "Rethinking the Learning of Reading Comprehension and Writing Skills of University Students in the Teaching of Spanish: An Exploratory Study." In *International Journal of Educational Excellence*, Volume 8, Number 2, 2022, pp. 61-73. Available online at: <https://uagm.edu/es/ijee>.

## Books & Book Chapters

### *Department of Literary, Cultural and Communication Studies*

**Burke, S.** (2023) "Journey Round Myself: Crossing Borders, Strengthening Connections, Breaking Boundaries in the Caribbean Cultural Ecology." Edited by S. Burke. Ian Randle Publishers. P.383.

**Burke, S.** (2023) "Introduction. Journey Round Myself: Crossing Borders, Strengthening Connections, Breaking Boundaries in the Caribbean Cultural Ecology" edited by S. Burke. Ian Randle Publishers, 2023, pp ix-xvii.

**Granger, C. A.** (2023) "Radical Imagining in Dutch Caribbean Music" In *Cultural Heritage and the Nation. Aruba, Bonaire and Curaçao in Caribbean perspective*. Eds. Luc Alofs, Alex van Stipriaan and Francio Guadeloup. Leiden University Press. <https://www.lup.nl/wp-content/uploads/ToC-Caribbean-Heritage-and-the-Nation.pdf>

**Granger, C. A.** (2022) "'We Come Out to Free up': Movement, Dance, and Liberation in West Indian Calypso" In *Equality in the Dutch Caribbean: Ways of Being Non/Sovereign*, eds. Guadeloupe, Francio and van der Pijl, Yvon. p 152-168

**Jackson, E.** (2022) "Global Childhoods and Cosmopolitan Identities in Literature." Leiden and Boston: Brill. p171.

**Maharaj, V.** (2022) "The Mystic Masseur's Wife." Peepal Tree Press. P.189

# PUBLICATIONS AND CONFERENCES

ONLINE ONLY

**McNeal, K. E.** (2023) "Cremating the Body Politic: Mapping the Materiality of the Indo-Caribbean Mortuary Ritual Corpus." In *Living Folk Religions*. Ed. Sravana Borkataky-Varma & Aaron Ullrey. New York: Routledge, pp. 204-227.

**McNeal, K. E.** (2023) "Pedagogy of Death in the Era of #Coronachaos." In *Religious Responses to Pandemics and Crises: Isolation, Survival, and #CovidChaos*. Ed. C. Eberhart, M. Bjelland Kartzow, & S. Borkataky-Varma. New York: Routledge, pp. 170-186.

**Steele, G.** (2022) "Human Communication Studies Caribbean Scholarship: Research Knowledge and Stories." Kendall Hunt Publishers.

## Department of Modern Language and Linguistics

Chinien, Savrina, "Patrick Chamoiseau: thinking beyond the coloniality of power", *The Politics of Race, Class and Nationalism*, Scott Timcke and Shelene Gomes (eds.), Georgia, Georgia University Press.

## SCHOOL OF EDUCATION

**De Lisle, J.** (2023). "Theorizing on the marginalization of boys and girls in Caribbean Schooling: Recurring myths and emerging realities." In S. Blackman (ed.), *Equitable education for marginalized youth in Latin America and the Caribbean* (pp. 27-55). Routledge.

Mohammed, P. S., Coy, A. **Skerrit, P.** Lewis-Fokum, Y. Mohammed, A. & Hosein, A. (2022). "The importance of culturally-situated design on children's interaction with speech-enabled features in an online spelling tutor." In Rauterberg, M. (eds) *Culture and Computing. Design Thinking and Cultural Computing. HCII 2022. Lecture Notes in Computer Science* (LNCS). Vol 13324. Springer, Cham. [https://doi.org/10.1007/978-3-031-05434-1\\_7](https://doi.org/10.1007/978-3-031-05434-1_7). 2020 Impact Score: 1.36, SJR: 0.249; Overall Rank: 16761; H Index: 400

**Ramsawak-Jodha, N.**, De Lisle, J., Kronberg, C., Alexander, V., Lucas, T.M., Ramnarine, N., Sambucharan, M., Mark, N., Harry, S., & Phillip, S. (2023). "Learning from a Grey Swan Event: Caribbean Public Examinations and the Pandemic." In *AERA Caribbean and African Studies in Education (CASE) Handbook*.

## Reviews

### Department of Literary, Cultural and Communication Studies

**McNeal, K. E.** (2023) Religion, Power, Politics, and History in the Southern Caribbean. Reviewed works: J. Brent Crosson, *Experiments with Power: Obeah and the Remaking of Religion in Trinidad* (2020, University of Chicago Press); Aisha Khan, *The Deepest Dye: Obeah, Hosay, and the Making of Race in the Atlantic World* (2021, Harvard University Press); and Stuart Earl Strange, *Suspect Others: Spirit Mediums, Self-Knowledge, and Race in Multiethnic Suriname* (2021, University of Toronto Press). *New West Indian Guide* 97 (3&4): 323-330.

**McNeal, K. E.** (2022) Review of Andil Gosine, *Nature's Wild: Love, Sex, and Law in the Caribbean* (2021, Duke University Press). *Journal for the Study of Indentureship and its Legacies* 2(1): 151-157.

## Conference & Other Presentations

### Department of Literary, Cultural and Communication Studies

**M. Amaye** (2023). The Decolonised Pen. Canada-Caribbean Institute Symposium. The UWI, Cave Hill, Barbados, February 24

**D-W. Brunton** (2023). Digital Creolité - A Theory for the Digi-Colonial Present, The International Communication Association. Toronto, Canada, May.

**D-W. Brunton** (2023). A Scuffling of Islands - The Death of West Indies cricket, International Association of Media and Communications Researchers (IAMCR) Conference, Lyon, France. 9-13 July

**D-W. Brunton** (2023). My Tardis is a Chattel House. Caribbean Studies Association, St Croix USVI June.

**D-W. Brunton** (2023). Time is a Place. Canada-Caribbean Institute Symposium. Cave Hill, Barbados, February.

**C. Granger** (2023). How Caribbean music performs to aid in weathering the storms and intervene in their repetition. CSA Conference St Croix USVI, June.

**C. Granger** (2023). I do not want to be resilient anymore": Refusing Resilience in lieu of Reinvention. American Educational Research Association, May.

**C. Granger** (2023). How Caribbean music performs to aid in weathering the storms and intervene in their repetition. Society for Ethnomusicology, Southeast and Caribbean Chapter, March.

**E. Jackson** (2022). Borders and boundaries in Amitav Ghosh's The Shadow Lines and Michael Ondaatje's The English Patient. ACLALS Conference, Ryerson University, Toronto, Canada, July.

**K. McNeal** (2023). Expanding the Scope of Climate Justice. Cipriani College of Co-Operative & Labour Studies Climate Justice Conference, Trinidad & Tobago, March.

### *Department of History*

**McCollin, D.** (2023). Panellist "The Abdication of Imperial Authority and Public Health in Trinidad and Tobago" on panel entitled "Empire and the Control of Human and Other-Than-Human Diseases." The American Historical Association Annual Conference. 5-14 January, Philadelphia, USA. Paper presented on Sunday 8, January.

**McCollin, D.** (2023). "Digital Archives and Records of Caribbean Histories" CARBICA XII – The Twelfth General Assembly and Conference of the Caribbean Archives Association- Virtual Conference (26-28 April 2023). Keynote presented on Wednesday 26 April.

**Ramsay, A.** (2023). Surviving Society Podcast: "The Global Power of the British Monarchy" February [https://soundcloud.com/user-622675754/sets/the-global-power-of-the?utm\\_source=clipboard&utm\\_medium=text&utm\\_campaign=social\\_sharing](https://soundcloud.com/user-622675754/sets/the-global-power-of-the?utm_source=clipboard&utm_medium=text&utm_campaign=social_sharing)

**Singh, S.** "Indian Heritage Month Breakfast Seminar". National Council of Indian Culture, Chaguanas. 6 May 2023. Seminar Presented: "Bastards or Thieves: The Illegitimacy Issue."

### *Department of Modern Languages and Linguistics*

**Ali, T.** When Gender-based Violence Seems Ordained by the Gods: Connecting GBV, Hinduism and Indo-Caribbean Masculinities in Four Trinidadian Literary Texts, Social Change and Gender-based Violence: Representations in Caribbean Literature and Performance Symposium London, UK (online), 22-23 September

# PUBLICATIONS AND CONFERENCES

## ONLINE ONLY

**Ibrahim Ali, A.** and **R. Guedez-Fernandez** (2022). ESL Learners Coming Into Contact with Trinidad English Creole. *New Frontiers in Caribbean Language Research*. Society for Caribbean Linguistics. Online, 2-4 August.

**Chinien, S.** (2023). Pedagogical passages from Dublin to Saint Augustine "Passages" conference (co-presentation with Dr Saint-Loubert), University College Dublin (Online) May 26th- 27th.

**Braithwaite, B.** (2023). Understanding Disability through an Intersectional Lens: Re-reflections from Caribbean Deaf Communities." *Disability Matters: Inclusive Futures Transformative Structures*. UWI, St Augustine, 21 April.

**Ferreira, J-A. S. with N. Hodge** (2022). French Creole (Patois) is Alive—Our Pan-Caribbean Intangible and Living Cultural Heritage. *International Creole Month celebrations Alliance Française Trinidad & Tobago*, 29 Oct.

**Ferreira, J-A. S.** (2022). SCL Innings: The First Half-Century. *Society for Caribbean Linguistics (SCL) 24th Biennial Conference and 50<sup>th</sup> Anniversary Celebration, T&T*, 03 Aug.

**Ferreira, J-A. S.** (2022). Linguistic Rights, Reform and Reparations in the Creole-Speaking Caribbean: Connecting the Dots. *Society for 17 Caribbean Linguistics (SCL) 24th Biennial Conference and 50th Anniversary Celebration, Trinidad and Tobago*, 02 August.

**Ferreira, J-A. S.** (2022). Vínculos e Ligações Históricas entre o Brasil e o Caribe: Fundamentos para Parcerias e Pesquisas. *XIII Congresso Internacional Artefatos da Cultura Negra*. Universidade Regional do Cariri (URCA), Juazeiro do Norte, Ceara, 19-24 Sept

**Ferreira, J-A. S.** (2022). Multilingualism in the Historical and Contemporary Caribbean: Attitudes and Issues. *Swarthmore College* (online), Wednesday 26 October

**Ferreira, J-A. S.** (2022). The Languages of Brazil, 200 years of independence: History, language and culture. *Embassy of Brazil in Bridgetown and the Barbados Language Centre, Barbados Community College*, 27 October.

**Ferreira, J-A. S.** (2022). Trinidad-Haiti Creole Connections; Royalists, Republicans, Language Revitalisers. *International Creole Day, Montgomery College's International Creole Day Celebration, "Kreyòl Pale, Kreyòl Konprann"* (Creole Spoken, Creole Understood), 28 October.

**Figuera, R.** (2023). Teaching Caribbean English/es on Purpose. *Black English Language Professionals and Friends (BELPAF), A Professional Learning Network of TESOL International* April 24.

**Figuera, R. and R. Warner** (2022). We Keep it in The Family: Gendered Insults and Verbal Play in Caribbean School Communities. *American Association of Anthropologists, Seattle, Washington State*, November 10.

**Rómulo Guédez, Sandra Evans, & Natalie Bhawanie,** (2023). Using mixed methods to examine teachers' perception of integrating language into subject-areas in primary schools. *Mixed Methods Matters! Charting The Course Towards Full(Er) Integration, Fourth Regional Mixed Methods Conference. School of Education, The University of the West Indies, St. Augustine Online* 10-12 July.

**Guedez-Fernandez, R.** (2023). Provision of a CLIL Supplemental Guide for Upper Primary Schools and the Train-the-Trainer workshop to equip primary school teachers to deliver content and language to 9-12 year-old local/migrant children in Trinidad and Tobago. Bureau of Population, Refugees, and Migration (PRM), US Department of State. Naparima College, San Fernando, 2 March.

**Guedez-Fernandez, R., N. Bhawanie & T. Lares-Sagam** (2022). The Collaborative Process for Integrating CLIL in the National Primary School Curriculum of Trinidad and Tobago Society for Caribbean Linguistics, 24th Biennial Conference. Online, 2 August

**Ibrahim-Ali, A. & R. Guedez-Fernandez** (2022). ESL Learners Coming into Contact with Trinidadian English Creole. Society for Caribbean Linguistics, 24th Biennial Conference. Virtual, 2 August.

**Guedez-Fernandez, R. & N. Bhawanie** (2022). CLIL around the World - Meet teachers worldwide. They teach their speciality (subject areas) in English / Conozca a profesores del exterior. Ellos enseñan su especialidad en inglés. Universidad Nacional Abierta a Distancia (UNAD) Duitama, Colombia (online), 29 November.

**Francis, R., P. Meer and R.S. Evans** (2023). Vowel Variation in St. Lucian English Creole: a semi-automated acoustic phonetic study. Society for Pidgin and Creole Linguistics, Summer Meeting Groningen, Netherlands (online), June.

## SCHOOL OF EDUCATION

**F. James** (2023). Building middle leadership capacity to lead in times of crisis and beyond using a multi-tiered professional learning approach. Bi-Annual International Conference on Educational Leadership & Management. October 18 – 20, Kingston Jamaica.

**F. James** (2022). Leading innovation and entrepreneurship in higher education: A partnership between Finland and Trinidad and Tobago. CANQATE Conference titled A Quality culture in the Caribbean: Are we there yet? November 2 - 4, Curaçao.

**E. Carrington-Blaidés** (2022). Collaborative consultation: A pathway for inclusive education in Trinidad and Tobago schools. The University of the West Indies, SOE Biennial Conference, June, Cave Hill, Barbados.

**E. Carrington-Blaidés** (2022). Social and emotional: Safeguarding vulnerability Caribbean Visionary Educators Conference on Inclusive Educational Practices, August, Virtual presentation.

**E. Carrington-Blaidés** (2023). Competing inclusion frameworks: Towards a transformative Persons with Disabilities as Change Agents 2023 Symposium, November, St. Augustine, Trinidad.

**P. Skerrit** (2023). Designing Effective Curricula and Assessment With AI: Opportunities and Challenges. Workshop. May 12.

**P. Skerrit** (2023). Advancing Diversity, Equity, Inclusion, and Belonging Through Literacy International Literacy Association in person event for literacy educators and leaders at Delaware State University, Delaware, United States: Friday May 19th.

# PUBLICATIONS AND CONFERENCES

## ONLINE ONLY

**P. Skerrit** (2023). World Association of Sign Language interpreters (WASLI) Conference held with the theme “Shaping our World for a Better Future”. Haevichi Hotel & Resort Jeju, Jeju Island, South Korea July 4th - 9th.

**P. Skerrit** (2023). The World Federation of the Deaf (WFD) Conference with the theme “Securing Human Rights in Times of Crisis”. Jeju International Conference Center, on Jeju Island, South Korea. July 11th -15th.

**P. Skerrit** (2023). CETL Workshop- UWI-STA Orientation to Peer Observation. September 15th.

**P. Skerrit** (2023). CETL Workshop - Integrating Artificial Intelligence (AI) in Education. October 10th.

**P. Skerrit** (2023). CETL Workshop - “Modalities within The UWI” with Dr. Dianne Thurab-Nkosi. October 27th.

**P. Skerrit** (2023). CETL Workshop - Preparing Your Course/ Programme Proposal at the UWI (Part 1). November 14th.

**P. Skerrit** (2023). CETL Workshop - Preparing Your Course/ Programme Proposal at the UWI (Part 2). November 14th.

De-Lisle, J., Ramnarine-Sinanan, N., and **Sambucharan-Mohammed, M.** (2022). Applying Validity Theory to Evaluate Adaptations to Public Examinations during the COVID-19 pandemic. The International Association for Educational Assessment Conference: Contributions of Assessment to Quality Education, Mexico, October.

De Lisle, J. Lucas, T., Sambucharan, M., Kronberg, C., Phillips, S., Ramsawak-Jodha, N. and Harry, N. (2023). Judging Infographic used in Data-Driven Story-telling – Miscommunication or a Call to Action. AERA Conference: April, Chicago, USA.

De Lisle, J., Geofroy, S., Sambucharan, M., Kronberg, C. Lucas, T. Phillip, S. Ramsawak-Jodha, N. Harry, N. and Phillip, K. (2023). Exploring Fairness Perspectives on 11+ Selection in the Caribbean. NCME Conference – March, Chicago, USA.

De Lisle, J., Lucas, T., Sambucharan, M., Kronberg, C., Phillip, S., Ramsawak-Jodha, N. and Harry, N. (2023). Data Visualization for Telling Policy Stories on Changing Caribbean High-Stakes 11+ Testing. NCME Conference – March, Chicago, USA.

**Lee-Piggott, R., Brown, L., Conrad, D. & Conrad, D.** (2023). Social Justice and Social Justice Leadership in Schools in Trinidad and Tobago: A QUAN study. IEAL-J Biennial International Conference on Educational Leadership & Management, Montego Bay, Jamaica. 18<sup>th</sup>-20<sup>th</sup> October.

St Bernard, G., Jameson-Charles, M., **Lee-Piggott, R.**, Chankar, S. & King, S. (2022). Accounting for the Dynamics of Bullying on Social Media among Secondary School Students: Preliminary Insights from Sample Survey Data from Schools in Trinidad. The University of the West Indies-Toronto Metropolitan University Rights for Children and Youth Partnership (UWI-TMU RCYP) Virtual Conference. 19th – 21st October.

**S. Herbert** (2022). ACTT Webinar: Fundamentals of curriculum development, October.

**S. Herbert** (2022). Corwin Webinar: Supporting educators to become equity focused change agents. October.

**S. Herbert** (2022). APA 7th edition update, November.

**S. Herbert** (2022). International Forum on AI and Education, December.

**S. Herbert** (2023). Research Talk. Spring Qualitative Inquiry Seminars. Developing qualitative social science theory with Johnny Saldana. March 30-31.

**S. Herbert** (2023). Designing effective curricula and assessment with ChatGPT: Opportunities and Challenges. Office of Online Learning (OOL), 25-26 May

**S. Herbert** (2023). How technology can impact teaching and assessment practices CETL ChatGPT workshop. June.

**S. Herbert** (2023). Mixed methods matters! Charting the course toward(s) full(er) integration. Mixed Methods conference: Fourth regional mixed methods conference MMIRA-CC School of Education, UWI. St Augustine. July 10-12.

**S. Herbert** (2023). Coding and analysing qualitative data with Johnny Saldana  
Qualitative Research Summer Institute. July 27-28.

Ramsawak-Jodha, N., Lucas, T., De Lisle, J., Kronberg, C., Mark-Worrel, N., **Alexander, V.**, Ramnarine-Sinanan, N., & Sambucharan, M. (2022). Wavering trust in public examinations: Stakeholder perceptions of validity and fairness during the COVID-19 pandemic. American Educational Research Association (AERA) Conference, San Diego, USA.

De Lisle, J., Geofroy, S., Sambucharan, M., Kronberg, C., Lucas, T.M., Phillip, S., **Ramsawak-Jodha, N.**, Harry, S., & Phillip, K. (2023). Exploring Fairness Perspectives on 11+ Selection in the Caribbean, NCME, Chicago, IL, United States.

De Lisle, J., Sambucharan, M., Kronberg, C., Lucas, T.M., Phillip, S., **Ramsawak-Jodha, N.**, Harry, S., & Phillip, K. (2023). Data Visualization for Telling Policy Stories on Changing Caribbean High-Stakes 11+ Testing. NCME, Chicago, IL, United States.

De Lisle, J., Lucas, T.M., with **Ramsawak-Jodha, N.** (2023). Judging Infographics Used in Data-Driven Storytelling- Miscommunication or A Call to Action? AERA, Chicago, IL, United States.

**N. Ramsawak-Jodha** (2023). Using Joint Displays for Integration to Explore Trust in Caribbean Public Examinations during the COVID-19 Pandemic. MMR Conference, SoE, July at SoE.

**P. Pierre-Robertson** (2023). ACES: The Society for Editing, Virtual Conference 2023. September 27–29.

**P. Pierre-Robertson** (2023). EBSCO Open Day. Trinidad Hilton Conference Room. November 8.

**P. Pierre-Robertson** (2023). ChatGPT for Editors: Leveraging AI to Transform Your Workflow and Upgrade Your Efficiency. Erin Servais. Webinar. August 17.

**P. Pierre-Robertson** (2023). Is ChatGPT Going to Take My Technical Writing Job? Webcast. Mike Iantosca with Patrick Bosek and Scott Abel. March 27.

# PUBLICATIONS AND CONFERENCES

## ONLINE ONLY

Kalloor, R., **Figaro-Henry, S.**, & Abdul-Majied, S. (2023). An exploratory mixed-methods study of a nutritional board game in early childhood science education. 4<sup>th</sup> Regional Mixed Methods Conference July 10<sup>th</sup>-12<sup>th</sup> St. Augustine, Trinidad

Kalloor, R., **Figaro-Henry, S.**, & Abdul-Majied, S. (2022). BINGO! A mixed-method investigation of a food board game on early childhood students' cognitive and affective learning outcomes. UWI Schools of Education Biennial Conference 15<sup>th</sup>-16<sup>th</sup> June Reimagining Education for Global Sustainability UWI, Cave Hill, Barbados.

Abdul-Majied, S., & **Figaro-Henry, S.** (2022). 'Zoom- ing' over challenges: Investigating practices for delivering emergency remote early childhood education in Trinidad". UWI Schools of Education Biennial Conference, Reimagining Education for Global Sustainability UWI, Cave Hill, Barbados 15<sup>th</sup>-16<sup>th</sup> June.

DeLisle, J., Ramsawak-Jodha, N., Alexander, V., Lucas, T., **Phillip, S.**, Phillip, K., Harry, S., Kronberg, C., Mark-Worrell, N., Ramnarine, N. & N. Mark-Worrell, N., & Phillip. K. "Using joint displays for integration to explore trust in Caribbean public examinations during the COVID-19 pandemic." Fourth Mixed Methods Research Regional Conference, The University of the West Indies, St. Augustine

DeLisle, J., Sambucharan, M., Kronberg, C., Lucas, T., **Phillip, S.**, Ramsawak-Jodha, N., Harry, S. & Phillip, K. (2023). Data visualization for telling policy stories on changing Caribbean high stakes 11+ testing. NCME , Chicago, USA.

**De Lisle, J.**, Ramsawak-Jodha, N., Alexander, V., Lucas, T.M., Phillip, S., Phillip, K., Harry, S., Kronberg, C., Mark, N., Ramnarine, N., & Sambucharan, M. (2023). Using joint displays for integration to explore trust in Caribbean public examinations during the COVID-19 4th Regional Mixed Methods Research Conference, Trinidad, West Indies.

**De Lisle, J** & Lucas, T. (2023). "Judging infographics used in data-driven storytelling- Miscommunication or a call to action?" AERA Annual Conference in Chicago.

**De Lisle, J.** et al. (2023). Exploring fairness perspectives on 11+ selection in the Caribbean. NCME Annual Conference in Chicago.

**De Lisle, J.** et al. (2023). Data Visualization for Telling Policy Stories on Changing Caribbean High-Stakes 11+ Testing. NCME Annual Conference in Chicago

**K. Lousion** (2023). Canadian Psychological Association Convention. June 23 - 25, Toronto Canada.

**K. Lousion** (2023). Investigating the internal validity of the WISC V in a referred Sample. International Society for the Study of Individual Differences 2023 Conference UK Belfast; July 16 -July 22.

**Z. Dedovets** (2023). The 15th annual International Conference on Education and New Learning Technologies (EDULEARN23), 3rd-5th of July, Spain



**Z. Dedovets** (2023). Increasing achievement and motivation in mathematics learning in schools. The 11th European Conference on Education (ECE2023), July 13–17, SOAS & University College, London, UK.

**Z. Dedovets** (2023). Designing mathematical tasks when working with gifted students The 10th International Conference of Mathematical Education. 3-8 October, Yerevan, Armenia.

Ferguson, T., Bramwell-Lalor, S., Ison, M., **Nazir, J.**, Kanada, M., & Williams-McBean, C. (2022). ESE in the English-Speaking Caribbean: From Research to Practice. Symposium presented at the annual research symposium of the North American Association for Environmental Education, Tucson, AZ. October.

**R. Maharaj-Sharma** (2023). CICE conference, Toronto, Canada, June 26 – 28 .

Deonath, L., & **Jaggernauth, S. J.** (2023). Artful Arithmetic and Geometric Progressions: A Mixed Methods Study in Trinidad and Tobago. Fourth Regional Mixed Methods Research Conference 2022. July 11.

**Jaggernauth, S. J.** (2022). Strengthening teacher efficacy through sustained professional development: A mixed methods study in Trinidad and Tobago. Mixed Methods International Research Association Global Conference 2022 (virtual). August 4.

K. Emrith, & **Jaggernauth, S. J.** (2022). Flipping the mathematics classroom: A mixed methods study in Trinidad and Tobago. Mixed Methods International Research Association Global Conference (virtual). August 4, 2022.

## CENTRE FOR LANGUAGE LEARNING

**M. Dallier** (2023). Beliefs and Attitudes towards Linguistic Variation in French 7e Colloque international sur l'enseignement du français langue étrangère (FLE). Universidad de Puerto Rico, Río Piedras, Puerto Rico. 23-25 February.

**M. Dallier** (2022). Attitudes et représentations envers le patrimoine linguistique de Trinité-et-Tobago en classe de français Postgraduate doctoral conference. Séminaire international « Recherche et innovation: leviers du développement durable en Amérique latine et dans la Caraïbe. AUF, University Agency for Francophonie. Dominican Republic. 22-23 Nov.

**A. Daly** (2023). Jolted into the 21<sup>st</sup> Century – the Case of a Caribbean Language Centre Language and Technology at the Crossroads Conference hosted by the International Association of Language Learning Technology, New Orleans, USA. 14-17 June.

**N. Roberts** (2023). Puerto Rican Islandness: Resistance and Resilience in Mayra Santos Febres' Antes que llegue la luz. Association of Caribbean Women Writers and Scholars (ACWWS) Conference Caribbean Feminisms: Genealogies and Geographies of Resistance University of Costa Rica, San José and Limón. 22-24 June.

## Other Publications

### *Film Programme*

### EXHIBITIONS / SCREENINGS

**A. Antonopoulos** (2023). *Cheenee*. [Film]. Doxa Documentary Film Festival, Vancouver, Canada.

# PUBLICATIONS AND CONFERENCES

## ONLINE ONLY

**S. Best** (2022). *Darkie* [Film]. Distributed and licensed via Studio Anansi to both Trinity College (US) and Florida International University.

**S. Plaza** (2022). *I Dream of Calypso* [Film]. Screened on WESN.

**Y. Ramesar** (2023). *Fortune for All* [Film]. Screened at The Ischia Global Film and Music Festival 2023 (ITALY); and the Cacique Film Awards in (CAIRO, Egypt); Official Selection & Finalist, Luleå International Film Festival, Sweden.

**K. Ramsawak** (2022). *Choices* [Film]. Screened on TTT and YouTube <https://www.youtube.com/watch?v=p5GAcBepRxw>.

## INTERNET PUBLICATIONS

**Ramesar, Y.** (Host). (2023 January 19). Robber Talk: Brian Honoré [Audio podcast]. Spotify. [https://open.spotify.com/episode/4WKJEmRFZxNrlBlqh1iOv9?si=DCctTLUbSgWpICju\\_UsO8w&nd=1](https://open.spotify.com/episode/4WKJEmRFZxNrlBlqh1iOv9?si=DCctTLUbSgWpICju_UsO8w&nd=1)

**Ramesar, Y.** (Host). (2023 August). Man of the People: Kwame Ture - Honorary Prime Minister of the Black Panther Party. [Audio podcast]. Spotify. [https://open.spotify.com/episode/0NFwXvW0QNVrgp49rft3pT?si=d\\_UvCoBaTY2479pG1RRqDQ&nd=1](https://open.spotify.com/episode/0NFwXvW0QNVrgp49rft3pT?si=d_UvCoBaTY2479pG1RRqDQ&nd=1)

## Alumni Exhibitions

**A. Pierre** (2023). *My Maxi* [Film]. Screened at the Barbican Centre's 'Snapshots: Caribbean Cinema Up Close' in London/UK. May.

**A.A.V. Ali**, (2023). Screening of various works at the Festival Internacional de Cine en Gaudalajara 38 Mexico. May.

**O. Ojoade** (2023). *The Hidden Crime*. Coal City Film Festival and the Kaduna International Film Festival, Nigeria. August.

## Department of History

**Brereton, B.** (2022) *History Matters Selected Newspaper Columns, 2011 – 2021*. Trinidad: Paria Publishing Co., Ltd. <https://www.tandfonline.com/doi/full/10.1080/10714839.2022.2084974>.

**Matthews, G.** (2022) "Monuments of Toussaint Louverture at Home and Abroad", *Caribbean Quarterly*, 68:4, 568-589.

**Ramsay, A.** (2022) "Crop Over and Carnival in the Archives of Barbados and Trinidad and Tobago" Eds. John Aarons, Jeanette A. Bastian, Stanley Griffin. *Archiving Caribbean Identity: Records, Community, Memory* New York: Routledge, 199-212.

**Ramsay, A.** (2022) "Barbados Breaks Free," *NACLA Report on the Americas*, 54.2, 137-141 Routledge Taylor and Francis Group.

**Singh, S.** (2022) *Prema Satsang of Jamaica 50<sup>th</sup> Anniversary Historical Commemorative Coffee Table Book*. Kingston, Jamaica: Prema Satsang of Jamaica.

**Singh, S. and Jahgoo** (2022) "Diaspora in the Caribbean." In *Oxford Bibliographies in Hinduism*. Ed. Tracy Coleman. New York: Oxford University Press, 2022.

**Teelucksingh, J.** (2022) *A Fragmented Caribbean Empire* (Caribbean Studies 2022) New York: Peter Lang, 2022

## Department of Modern Language and Linguistics

### REFEREED PUBLICATIONS:

**Braithwaite, B.** "Research, collaboration and recognising the value of indigenous sign languages: a Caribbean perspective." In *State of the art of indigenous languages in research: A collection of selected research papers*. UNESCO (September 2022). <https://unesdoc.unesco.org/ark:/48223/pf0000381556>

**Ferreira, J-A. S.** "Tomás Emeterio del Sacramento Sosa y Wangüemert: Un veguero isleño en Cuba, un pionero del tabaco y patriarca en la isla de Trinidad." *Revista de Historia Canaria* Vol 205 (mayo 2023), pp. 51-86; <https://doi.org/10.25145/j.histcan.2023.205.03>

**Ferreira, J-A. S.** "Tomás Sosa Wangüemert—Nineteenth Century Cuban Tobacco Pioneer in Trinidad." *Caribbean Quarterly* Vol 68, No 4, pp. 506–535 (November 2022) <https://doi.org/10.1080/00086495.2022.2139514>

**Francis, R., and R.S. Evans.** "Dennery Segment ka mennen': Exploring the dominance of creole languages in St. Lucian popular music" (2022) in J. T. Farquharson, A. Hollington, and B. Jones, eds., *Contact Languages and Music*. UWI Press pp. 37 – 63

Hollington, Andrea, Joseph T. Farquharson and Byron M. Jones Jr., (2022). editors. *Contact Languages and Music*. Kingston: UWI Press.

**Rocketship, F., K. Ali and B. Braithwaite.** (2022) Intralinguistic and Crosslinguistic Variation in the Turn-taking Organization Between Deaf-blind Signers: new evidence from Bay Islands Sign Language. *University of Pennsylvania Working Papers in Linguistics*, 28(2), 16 . <https://repository.upenn.edu/entities/publication/a9216acd-e520-47f9-a1a8-c092e1e871f6>

### ARTICLES

**Guedez-Fernandez, R.,** Aarti Persad, Dev Pooma & Nicha Selvon-Ramkissoon. (2023). Promoting Safety, Security and Human Rights: Empowering Migrant Children through Education in Trinidad and Tobago. *Spotlight on Crime and Public safety*. Vol. 3, No. 3. June 2023. Pp. 6-7. <https://utt.edu.tt/press-releases/icps-newsletter-june-2023/>

Ibrahim-Ali, A. & **R. Guedez-Fernandez** (2023). Spare a thought for the Venezuelan woman. *Trinidad Express Newspapers*, March 8, 2023. [https://trinidadexpress.com/opinion/letters/spare-a-thought-for-the-venezuelan-woman/article\\_8f8d60c0-bd51-11ed-8cfe-efa0b1fbb7e3.html](https://trinidadexpress.com/opinion/letters/spare-a-thought-for-the-venezuelan-woman/article_8f8d60c0-bd51-11ed-8cfe-efa0b1fbb7e3.html)

Ibrahim-Ali, A. & **R. Guedez-Fernandez** (2023). Spare a thought for the Venezuelan woman. *Trinidad and Tobago Guardian*, March 8, 2023, Opinion, p. 19. [https://www.researchgate.net/publication/369063385\\_Sparing\\_a\\_thought\\_for\\_the\\_Venezuelan\\_woman\\_on\\_International\\_Women's\\_Day#fullTextFileContent](https://www.researchgate.net/publication/369063385_Sparing_a_thought_for_the_Venezuelan_woman_on_International_Women's_Day#fullTextFileContent)

### CREATIVE WRITING

**Bazán, Ó.** (2023). *El rayo silencioso*. Madrid: Editorial Esqueleto Negro. (Novel)

**Bazán, Ó.** (2023). "Hay que compartir". *En sentido figurado* 16.2: 59-69. (Short Story)

**Bazán, Ó.** (2023). "Una copa en el paraíso". *Revista Almiar* 126. (Short Story)

# PUBLICATIONS AND CONFERENCES

ONLINE ONLY

## SCHOOL OF EDUCATION

**Petra Pierre- Robertson.** "So I have Published: What's Next? ART (Advertise Your Research With Technologies)". Blog. The Early Career Researcher, 2023. <https://tecresearcher.com/so-i-have-published-what-next-art-advertise-your-research-with-technologies/>

**Petra Pierre-Robertson, P.** (2023) "Academic Integrity (AI) and Artificial Intelligence (AI)" Library Guide (online) [https://libguides.uwi.edu/https://libguides.uwi.edu/AI\\_AI](https://libguides.uwi.edu/https://libguides.uwi.edu/AI_AI)

## CENTRE FOR LANGUAGE LEARNING

### Edited Volume

Dofs, K. & **D. Mideros**, Eds., (2022). Special Issue: Papers from the AILA 2021 Symposium. *Studies in Self-Access Learning Journal*, 13(2). <https://doi.org/10.37237/130201>

## FACULTY OF LAW

### Journal Publications

E.G. Pereira; O.S. Kirillova; D. Moin; S.F. Ojagh; W.A. Clavijo Vitto; J.V.M. Cardoso; F. Delgado de Jesus; S.G. Balliram; E. Charles; **T. Affonso** (2023) "International Sanctions on Petroleum Producing Countries vis-à-vis Private Investments: A Comparison Between Iran, Russia and Venezuela." (Oil, Gas and Energy Law Journal OGEL, ISSN 1875-418X) June 2023.

**Affonso, T.**, "Regional Integration through Law: The Original Jurisdiction of the Caribbean Court of Justice", (2023) UWISALJ, June, Volume 1 found at: <https://sta.uwi.edu/law/sites/default/files/law/documents/UWISALJ%20Volume%201%202023.pdf>

**Affonso, T.**, (2022) "How Communication Impacts the Right to Health: COVID-19 Seen Through a Lens of Vulnerability", American Behavioral Scientist 1-13, Sage Journal, found at: <https://doi.org/10.1177/00027642221138277> (Impact Factor 2.531)

**Affonso, T.**, (2022) "Accountability in Representation: Membership Holding Trade Unions Responsible." Caribbean Social Justice Forum, Volume 2, Issue 2.

**Affonso, T.**, (2022) "Widening the Divide: A Human Rights' Critique of the Impact of COVID-19 On Informal Workers in Trinidad and Tobago," Caribbean Social Justice Forum, Volume 2, Issue 1, (Jan-April) found at: <https://cclcs.edu.tt/wp-content/uploads/2022/06/z.-Vol2.-No1.pdf>

**Affonso, T.**, (2022) "Breaking New Ground in Procurement Law: A new exception to Ron Engineering," Timothy Affonso, The Lawyer, Volume 9, Issue No. 1, November.

**Elias-Roberts, A.**, Eduardo G. Pereira, Thomas Muinzer and Aurelia Reid, (2022) "Reconciling the Local Content Laws and Policies in Trinidad and Guyana with the CARICOM Trade Rules: Lessons from the European Union" *Journal of World Energy Law & Business*. Oxford University Press. Pages 245-265. Available at <https://academic.oup.com/jwelb/advance-article-abstract/doi/10.1093/jwelb/jwac013/6593933> Index. SCIE/SSCI. Impact Factor. 1.097. Ranking; H Index. 9. SJR. 0.27. Scopus Impact Factor: 2-year. Impact Factor.

**Elias-Roberts, A.**, Eduardo G. Pereira and Berryl Claire Asiago, (2023) "A review of the Guyana landmark local content law" *Journal of World Energy Law & Business*. Oxford University Press. Pages 1-15. Index. SCIE/SSCI. Impact Factor. 1.097. Ranking; H Index. 9. SJR. 0.27. Scopus Impact Factor: 2-year. *Impact Factor*.

## Books & Book Chapters

**Affonso, T.**, (2022) "Human Rights Dimensions of Venezuelan Asylum Seekers in Trinidad and Tobago", In book entitled, *The Caribbean Social Justice Agenda*, Published by Lexington: Rowman and Littlefield, ISBN:9781666923407.

**Elias-Roberts, A.** (2022) "The Legal and Regulatory Framework to support Off-grid Renewable Electricity in Trinidad and Tobago" in *Regulatory Support for Off-grid Renewable Electricity*, edited by Dr. Ngozi Chinwa Ole, Eduardo G. Pereira, Peter Kayode Oniemola, and Luiz Gustavo Kaercher (Taylor and Francis Inc.).

**Elias-Roberts, A.**, Gustavo Castro Ribeiro, Eduardo G Pereira, Hirdan Katarina de Medeiros Costa, Thaiz da Silva Vescovi, Edmilson Moutinho dos Santos, João Victor Correia Lopes, (2022) "Regulatory and technical opportunities for reducing

flaring and venting operations in oil and gas fields in Brazil" in *The Palgrave Handbook of Natural Gas and Global Energy Transitions*, ed. Damilola s. Olawuyi and Eduardo Pereira (Palgrave, Macmillian,). Pages 415 – 438. Available at <https://link.springer.com/book/10.1007/978-3-030-91566-7?page=2&oscar-books=true#toc>

**Koo, J.**, (2022) "The United Nations Convention On The Law Of The Sea Part Xi Regime, A Twenty-five Year Journey," In *The Unclos, Part Xi Regime And The International Seabed Authority: A Twenty-five Year Journey*, Brill Nijhoff

## Conference Papers & Proceedings

**Charles, E.**, (2022) Workshop on "Filling the legal toolbox for working towards ocean sustainability: UNCLOS 2.0," The Hague, 17-18 November, University of Utrecht, Netherlands Institute for the Law of the Sea and the Netherlands Ministry of Foreign Affairs.

**Charles, E.**, (2022) "Is there an obligation to Protect Human Rights in Marine Areas Beyond National Jurisdiction (ABNJ)?" Oceans, Justice and Human Rights Conference, Nelson Mandela University, South Africa, 3-5 November.

**Charles, E.**, (2022) The Shridath Ramphal Centre for International Trade Law, Policy and Services (SRC), University of the West Indies, Cave Hill Campus, and the University of Newcastle, workshop/short course on "Trade and the Blue Economy" with a focus on CARICOM countries from 3-7 October 2022-presenter on "Opportunities and Challenges Ahead for CARICOM Countries."

**Charles, E.**, (2022) "UNCLOS at 40: Has the Convention lived up to its promises?" Organised and moderated an academic seminar, Faculty of Law UWI, St Augustine-25 August

# PUBLICATIONS AND CONFERENCES

## ONLINE ONLY

**Koo, J.,** (2022) "Communication to the Public – The US versus the EU Experience" Works-in-Progress Intellectual Property Colloquium, St Louis University, 20 February

**Perot, E.,** (2022) "*Publicity Rights, Celebrity Rights, Social Norms: Industry Practices in the US and UK*" Works in Progress in Intellectual Property Conference, St Louis University Law School, MO, USA, February 18.

**Perot, E.,** (2022) *The Challenges of Launching an IP Law Clinic at the University in the Developing World* Works in Progress in Intellectual Property Conference, St Louis University Law School, MO, USA February 19.

## Non-Refereed Presentations

**Affonso, T.,** (2023) "Legal Education: Beyond the Bar," Reshape Legal Thinking, Radiant Law, Port of Spain, Trinidad. 15 June.

**Marcus, J.T.** (2023) Arbitration in Sports Disputes, Hugh Wooding Law School.

**Marcus, J.T.** (2022) Transgenderism in Sport, Barbados Bar Association Conference

## Other Publications

### BLOGS/NEWSPAPERS/MAGAZINES

**Affonso, T.,** "An Exception to Diplomatic Immunity: What Happens Next?" The International Law Association (Caribbean Branch) Newsletter, June 1, 2023, Volume 1, Issue 1.

**Affonso, T.,** "That's a Wrap! Completing the Mandate of the ILA Committee on Complementarity in International Criminal Law" The International Law Association (Caribbean Branch) Newsletter, June 1, 2023, Volume 1, Issue 1.

**Affonso, T.,** "The Black Economy" in The Colours of the Economy, published by the Trinidad and Tobago Chamber of Industry and Commerce, <https://chamber.org.tt/contact-magazine/2023-q2>

**Affonso, T.,** Buzz Newsfeed, "SDGs for SIDS", Volume 4, Issue 5, pg. Available at [https://issuu.com/buzztt/docs/buzz\\_vol\\_4\\_iss\\_2](https://issuu.com/buzztt/docs/buzz_vol_4_iss_2)

**Affonso, T.,** Buzz Newsfeed, October 2022, "(In)Dependence", Volume 3, Issue 4, pg. 1 Available at [https://issuu.com/buzztt/docs/buzz\\_vol\\_3\\_iss\\_4](https://issuu.com/buzztt/docs/buzz_vol_3_iss_4)

## FACULTY OF MEDICAL SCIENCES

### Journal Publications

#### SCHOOL OF MEDICINE

##### *Department of Pre-Clinical Sciences*

Brito, A.F., E. Semenova, G. Dudas, G. W. Hassler, C. C. Kalinich, M. U. G. Kraemer, J. Ho, H. Tegally, G. Githinji, C. N. Agoti, L. E. Matkin, C. Whittaker, Bulgarian SARS-CoV-2 sequencing group, Communicable Diseases Genomics Network (Australia and New Zealand), COVID-19 Impact Project, Danish Covid-19 Genome Consortium, Fiocruz COVID-19 Genomic Surveillance Network, GISAI core curation team, Network for Genomic Surveillance in South Africa (NGS-SA), Swiss SARS-CoV-2 Sequencing Consortium, B. P. Howden, V. Sintchenko, N. S. Zuckerman, O. Mor, H. M. Blankenship, T. de Oliveira, R. T. P. Lin, M. M. Siqueira; P. C. Resende, A. T. R. Vasconcelos, F. R. Spilki, R. S. Aguiar, I. Alexiev, I. N. Ivanov; I. Philipova, C. V. F. Carrington, N. S. D. Sahadeo, N. Branda, C. Gurry, S. Maurer-Stroh, D. Naidoo, K. J. von Eije, M. D. Perkins, M. van Kerkhove, S. C. Hill, E. C. Sabino, O. G. Pybus, C. Dye, S. Bhatt, S. Flaxman, M. A. Suchard, N. D. Grubaugh, G. Baele, N. R. Faria. (2022). "Global disparities in SARS-CoV-2 genomic surveillance." *Nature Communications* 13(1):7003. doi: 10.1038/s41467-022-33713-y.

Foster, J. E., K. López, G. Eastwood, H. Guzman, C. V. F. Carrington, R. B. Tesh, A. J. Auguste. (2023). "Phylogenetic characterization of Orthobunyaviruses isolated from Trinidad shows evidence of natural reassortment." *Virus Genes* 59, 473–478 (2023). <https://doi.org/10.1007/s11262-023-01973-5>

Hill V., G. Githinji, C. B. F. Vogels, A. I. Bento, C. Chaguza, C. V. F. Carrington, N. D. Grubaugh. (2023). "Towards a global virus genomic surveillance network." *Cell Host & Microbe* 31(6): 861-873, <https://doi.org/10.1016/j.chom.2023.03.003>.

Nayak, B. S., T.K. Monplaisir, G. Bhaktha, R. Ali, K. M. Surapaneni, V. Priya (2023) "Evaluation of Clinical, Demographic, and Biochemical Profiles of Trinidadian Patients Undergoing Coronary Angiography." *Annals of the National Academy of Medical Sciences* (India) 59:90–96.

O'Toole, A., V. Hill, B. Jackson, R. Dewar, N. Sahadeo, R. Colquhoun, S. Rooke, J. T. McCrone, M. P. McHugh, S. M. Nicholls, R. Poplawski, The COVID-19 Genomics UK (COG-UK) Consortium, COVID-19 Impact Project (Trinidad & Tobago Group), D. Aanensen, M. Holden, T. Connor, N. Loman, I. Goodfellow, C. V. F. Carrington, K. Templeton, A. Rambaut. (2022). "Genomics-informed outbreak investigations of SARS-CoV-2 using civet." *PLOS Global Public Health* 2(12): e0000704. <https://doi.org/10.1371/journal.pgph.0000704>.

Ramjag, A., S. Cutrone, K. Lu, C. Crasto, J. Jin, S. Bakkour, C.V.F. Carrington, G. Simmons. (2022). "A high throughput screening assay to identify inhibitory antibodies targeting alphavirus release." *Virology Journal* 19:170. doi: 10.1186/s12985-022-01906-y

Rich, S., V. Richards, C. Mavian, B. Rife Magalis, N. Grubaugh, S. Rasmussen, S. Dellicour, B. Vrancken, C. Carrington, R. Fisk-Hoffman, D. Danso-Odei, D. Chacretton, J. Shapiro, M. N. Seraphin, C. Hepp, A. Black, A. Dennis, N. Trovao, A-M. Vandamme, A. Rasmussen, M. Lauzardo, N. Dean, M. Salemi, M. Prospero. (2022). "Application of phylodynamic tools to inform the public health response to COVID-19: a qualitative analysis of expert opinions." *JMIR Formative Research* 7:e39409. doi: 10.2196/39409.

# PUBLICATIONS AND CONFERENCES

## ONLINE ONLY

Sahadeo, N. S. D., S. Nicholls, F. R. R. Moreira, Á. O'Toole, V. Ramkissoon, C. Whittaker, V. Hill, J. T. McCrone, N. Mohammed, A. Ramjag, A. Brown-Jordan, S. C. Hill, R. Singh, S. Nathaniel-Girdharrie, A. Hinds, N. Ramkissoon, K. V. Parag, N. Nandram, R. Parasram, Z. Khan-Mohammed, L. Edghill, L. Indar, A. Andrewin, R. Sealey-Thomas, P. McMillan, A. Oyinloye, K. George, I. Potter, J. Lee, D. Johnson, S. Charles, N. Singh, J. Bisesor-McKenzie, H. Laws, S. Belmar-George, S. Keizer-Beache, S. Greenaway-Duberry, N. Ashwood, J. E. Foster, K. Georges, R. Naidu, M. Ivey, S. Giddings, R. Haraksingh, A. Ramsubhag, J. Jayaraman, C. Chinnadurai, C. Oura, O. G. Pybus, J. St. John, G. Gonzalez-Escobar, N. R. Faria, C. V. F. Carrington. "Implementation of Genomic Surveillance of SARS-CoV-2 in the Caribbean: Lessons learned for sustainability in resource-limited settings." *PLOS Global Public Health* 3(2): e0001455. <https://doi.org/10.1371/journal.pgph.0001455>

Tan, S.H., O.M. Allicock, A. Katamba, C. V. F. Carrington, A. L. Wyllie, M. Armstrong-Hough. (2022). "Saliva-based methods can improve SARS-CoV-2 testing access in low- and middle-income countries." *Bulletin of the World Health Organisation*. 100(12): 808–814 doi: 10.2471/BLT.22.288526

### Department of Para-Clinical Sciences

Justiz-Vaillant, A. A., Gopaul, D., Akpaka, P. E., Soodeen, S., & Arozarena Fundora, R. (2023). "Severe Combined Immunodeficiency-Classification, Microbiology Association and Treatment." *Microorganisms*; 11(6), 1589.

Justiz Vaillant A, Akpaka PE. (2023) "Immunogenicity Studies of Various Experimental Vaccines in Chickens." *Biotechnology Journal International*; 27 (3): 41-55.

Justiz-Vaillant A, Rodolfo Fundora, Reinand Thompson, Darren Gopaul. (2023) "Modifiable cancer risk factors. International Research Journal of Oncology." *International Research Journal of Oncology*; 6 (1): 74-84.

Justiz-Vaillant A & Akpaka PE. (2022). "Cytokines (IL-17, IL-23 and IL-33) in Adult Patients with Systemic Lupus Erythematosus in Trinidad and Tobago." *Journal of Advances in Medicine and Medical Research*; 34(20): 407-413.

Sakhamuri SM, Jankie S, Pinto Pereira LM. (2022) "Calling on Latin America and the Caribbean countries to recognise the disability from long COVID. Lancet Regional Health." *Americas*. Aug:100362. DOI: 10.1016/j.lana.2022.100362. PMID: 36043156; PMCID: PMC9412073

Jankie S, Sampath S, Pinto Pereira LM (February 27, 2023) "Contraceptives Are Also Drugs." *Cureus* 15(2): e35563. doi:10.7759/cureus.35563

Ezenwaka CE. (2022) "A cross-talk between perceptions and reality on insulin therapy among Type-2 diabetes patients in developing countries." *Diabetes Research and Clinical Practice*. Oct 1;192.

Monecke S, Akpaka PE, Smith MR, Unakal CG, Thoms Rodriguez CA, Ashraph K, Müller E, Braun SD, Diezel C, Reinicke M, Ehrlich R. (2023) "Clonal Complexes Distribution of Staphylococcus aureus Isolates from Clinical Samples from the Caribbean Islands." *Antibiotics*. Jun 14;12(6):1050.



Lo SW, Mellor K, Cohen R, Alonso AR, Belman S, Kumar N, Hawkins PA, Gladstone RA, Von Gottberg A, Veeraraghavan B, Ravikumar KL. (2022) "Emergence of a multidrug-resistant and virulent *Streptococcus pneumoniae* lineage mediates serotype replacement after PCV13: an international whole-genome sequencing study." *The Lancet Microbe*. Oct 1;3(10):e735-43.

Hawkins PA, Chochua S, Lo SW, Belman S, Antonio M, Kwambana-Adams B, von Gottberg A, du Plessis M, Cornick J, Beall B, Breiman RF. (2023) "A global genomic perspective on the multidrug-resistant *Streptococcus pneumoniae* 15A-CC63 sub-lineage following pneumococcal conjugate vaccine introduction." *Microbial Genomics*. ;9(4).

Justiz-Vaillant AA, Gopaul D, Akpaka PE, Soodeen S, Arozarena Fundora R. (2023) "Severe Combined Immunodeficiency—Classification, Microbiology Association and Treatment." *Microorganisms*. Jun 15;11(6):1589.

Scott-Williams J, Hosein A, Akpaka P, Venkata CR, Akpaka EP, Venkata CR. (2023) "Epidemiology of Cervical Cancer in the Caribbean." *Cureus*. Nov 3;15(11).

Lashley PM, Harrison A, Garbutt A, Melbourne-Chambers R, Koury S, Quee-Brown CS, Russell P. (2022) "1006 Paediatric postgraduate examinations at the University of the West Indies during COVID-19: blessing or curse?" *Archives of Disease in Childhood*. Aug 1;107(Suppl 2):A396-.

Lyons N, Bhagwandeem B, Todd S, Boyce G, Samaroo-Francis W, Edwards J. (2023) "Correlates and Predictors of COVID-19 Vaccine Hesitancy Among Persons Living With HIV in Trinidad and Tobago." *Cureus*. Mar 9;15(3):e35961. doi: 10.7759/cureus.35961.

Lyons N, Bhagwandeem B, Edwards J. (2023) "Examining the Correlates of HIV Testing for Venezuelan Migrants in Trinidad." *Int J Environ Res Public Health*. Jan 25;20(3):2148. doi: 10.3390/ijerph20032148.

Park SH, Hong SH, Kim K, Lee SW, Yon DK, Jung SJ, Abdeen Z, Brahim Ahmed MLC, Serouri AA, Al-Herz W, Subbaram K, Shaik Syed P, Ali S, Ali K, Al-Shamsi HO, Baatarkhuu O, Nielsen HB, Bernini-Carri E, Bondarenko A, Cassell A, Cham A, Chua ML, Dadabhai S, Darre T, Davtyan H, Dragioti E, East B, Edwards RJ, Ferioli M, Georgiev T, Ghandour L, Harapan H, Hsueh PR, Ikram A, Inoue S, Jacob L, Janković S, Jayarajah U, Jesenak M, Kakodkar P, Kapata N, Kebede Y, Khader Y, Kifle M, Koh D, Maleš VK, Kotfis K, Koyanagi A, Kretchy JP, Lakoh S, Lee J, Lee JY, Mendonça MDLL, Ling L, Llibre-Guerra J, Machida M, Makurumidze R, Mallah S, Memish ZA, Mendoza I, Moiseev S, Nadasdy T, Nahshon C, Namendys-Silva SA, Yongsı BN, Nicolosora AD, Nugmanova Z, Oh H, Oksanen A, Owopetu O, Ozguler ZO, Perez GE, Pongpirul K, Rademaker M, Radojevic N, Roca A, Rodriguez-Morales AJ, Viveiros Rosa SG, Roshi E, Saeed KMI, Sah R, Sakakushev B, Sallam DE, Sathian B, Schober P, Simonović Z, Singhal T, Skhvtaridze N, Solmi M, Tizaoui K, Tlhakanelo JT, Torales J, Torres-Roman S, Tsartsalis D, Tsolmon J, Vieira DN, Wanghi G, Wollina U, Xu RH, Yang L, Zia K, Zildzic M, Il Shin J, Smith L. (2023) "Non-Pharmaceutical Interventions Reduce the Incidence, and Mortality of COVID-19: A Study based on the Survey from the International COVID-19 Research Network (ICRN)." *J Med Virol*. Feb;95(2):e28354. doi: 10.1002/jmv.28354.

Lyons N, Bhagwandeem B, Edwards J. (2022) "Factors Affecting COVID-19 Vaccination Intentions among Patients Attending a Large HIV Treatment Clinic in Trinidad Using Constructs of the Health Belief Model." *Vaccines* (Basel). Dec 20;11(1):4. doi: 10.3390/vaccines11010004.

# PUBLICATIONS AND CONFERENCES

## ONLINE ONLY

Edwards RJ, Julien-Serrette K, Edwards J, Boyce G. (2022) "HTLV-1 Coinfection among Patients Attending a Large HIV Treatment Centre in Trinidad." *Microorganisms*. Nov 8;10(11):2207. doi: 10.3390/microorganisms10112207.

Ophinni Y, Frediansyah A, Sirinam S, Megawati D, Stoian AM, Enitan SS, Akele RY, Sah R, Pongpirul K, Abdeen Z, Aghayeva S, Ikram A, Kebede Y, Wollina U, Subbaram K, Koyanagi A, Al Serouri A, Nguendo-Yongsi HB, Edwards J, Sallam DE, Khader Y, Viveiros-Rosa SG, Memish ZA, Amir-Behghadami M, Vento S, Rademaker M, Sallam M. (2022) "Monkeypox: Immune response, vaccination and preventive efforts." *Narra J.* ;2(3). <https://doi.org/10.52225/narra.v2i3.90>.

Edwards RJ, Parboo M, Edwards J, Boyce G. (2023) "Trichomoniasis refractory to 5-nitroimidazole therapy in Trinidad." *Trop Doct.* Jan;53(1):143-145. doi: 10.1177/00494755221131370.

Motilal S, Khan R, St. Bernard G, Ivey MA, Reid SD. (2022) "Positive influences of the COVID-19 pandemic on community dwelling adults in Trinidad and Tobago: a cross sectional study." *J Ment Health.* Sep 9;0(0):1–10. (Journal Impact Factor = 3.68, Citations = 0)

Maharaj R G, Motilal S, Khan R, et al. (2023) "A No-Cost, Bedside, Self-Traction Maneuver for Relief From Chronic Cervical Radiculopathy: A Case Report." *Cureus* 15(8): e43963. doi:10.7759/cureus.43963

Rahaman R, Motilal Shastri M, Khan R et al. (2023) "Are primary care consultations in Trinidad patient-centered? A cross-sectional study of patients with non-communicable diseases." *BMC Prim. Care* 24, 215 (2023). <https://doi.org/10.1186/s12875-023-02149-8>

Khan R, Albert R, Awe L, De Four R, Francois T, Hinds T, Kellman A, Maharaj K, Mahon R, Pierre C, Ramai A, Baksh R. (2023) "The knowledge, attitudes, and perceptions toward the Oxford AstraZeneca COVID-19 vaccine amongst Primary Health care workers in North-Central Trinidad." *Front Public Health.* Feb 6;11:1094001. doi: 10.3389/fpubh.2023.1094001. PMID: 36815150; PMCID: PMC9939478.

Khan R, Khan A, Mohammed I, Chankersingh A, Charles S, Charles N, Clarke W, Clarke J, Cooper V, Creary D, Dan F. (2022) "Investigating the Leading Reasons for Primary Health Care encounters and its Implications for Health Care in Trinidad and Tobago. A Systematic Review." *Journal of Family Medicine and Primary Care.* *Journal of Family Medicine and Primary Care:* September - Volume 11 - Issue 9 - p 4949-4980 doi: 10.4103/jfmpcjfmpc\_1803\_21

Seecheran NA, Rafeeq S, Maharaj N, Swarath S, Seecheran V, Seecheran R, Seebalack V, Jagdeo C, Seemongal-Dass R, Quert A, Giddings S, Ramlackansingh A, Sandy S, Motilal S, Seemongal-Dass R. (2023) "Correlation of RETINAL Artery Diameter with Coronary Artery Disease: The RETINA CAD Pilot Study—Are the Eyes the Windows to the Heart?" *Cardiol Ther* [Internet]. Jun 15; Available from: <https://doi.org/10.1007/s40119-023-00320-x>

Jankie S, Sewdass K, Smith W, Naraynsingh C, Johnson J, Farnon N, Mahadeo K, Motilal S. (2023) "A cross-sectional survey of prospective healthcare professionals' knowledge, attitudes and perceptions of medical Cannabis." *Explor Res Clin Soc Pharm.* Apr 21;100275.

Bala, R., Maharaj, R.G., Boppana, L.K.T. et al. (2023) "The preconception health status of nongravid women aged 18 to 45 years in Arima, Trinidad: a cross-sectional study." *BMC Pregnancy Childbirth* 23, 720 <https://doi.org/10.1186/s12884-023-06017-2>

Almodóvar-Rivera, I.A., Rosario-Rosado, R.V., Nazario, C.M., Hernández-Santiago, J., Ramírez-Marrero, F.A., Nunez, M., Maharaj, R., Adams, O.P., Martinez-Brockman, J.L., Tessier-Sherman, B., Nunez-Smith., (2022) "M on behalf of the ECHORN Writing Group. Development of the Anthropometric Grouping Index for the Eastern Caribbean Population Using the Eastern Caribbean Health Outcomes Research Network (ECHORN) Cohort Study Data." *International Journal of Environmental Research and Public Health*, 19

Kumar P, Yadav N, Chaudhary B, Umakanthan S, Chattu VK, Kazmi I, Al-Abbasi FA, Alzarea SI, Altamimi ASA, Gupta G, Gupta MM. "Lipid Nanocapsule: A Novel Approach for Drug Delivery System Formulation Development." *Current Pharmaceutical Biotechnology*. May 23. doi: 10.2174/1389201024666230523114350. Online ahead of print. Impact Factor 2.82.

Umakanthan S, Bukelo MM, Ghany S, Gay D, Gilkes T, Freeman J, Francis A, Francis K, Gajadhar G, Fraser J. (2023) "The Correlation of Papanicolaou Smears and Clinical Features to Identify the Common Risk Factors for Cervical Cancer: A Retrospective and Descriptive Study from a Tertiary Care Hospital in Trinidad." *Vaccines MDPI* (Basel). Mar 18;11(3):697. doi: 10.3390/vaccines11030697. Impact factor: 4.96 (citations 0); Corresponding author.

Umakanthan S, Ramlagan A, Ramlal C, Ramlal P, Ramlochan, D, Ramlogan A.-D, Ramnarace P, Ramnarine T, Ramnath A. (2022) "COVID-19 Awareness among Undergraduate Medical Students in Trinidad: A Cross-Sectional Study." *International Medical Education MDPI* (Basel). Sept, 1, 22–32. <https://doi.org/10.3390/ime1020006>. (citations 3). Corresponding author.

#### **Non-refereed Publications And Related Works**

Motilal S, Maharaj R, Bridglal R, Jaggernauth R, Ramkeessoon R, Libert R, Carmona R, Roopnarine R, Burton R (2023) "Choice of medical specialty: a cross-sectional study of medical students and comparison with existing practice." *Carib Med J Jun*

De Freitas L, Dookeeram D, Motilal S. (2023) "Health Professional Well-being and Preparedness During the Covid-19 Pandemic in Trinidad and Tobago: an Online Survey." *Journal of Wellness*. 5:1,3.

Rambocas N, Kissoon Y, Kennedy JM, Mohammed K, Khan D, Motilal MS, Bissessar A. "Assessing period poverty in Trinidad and Tobago: An exploratory approach." *Medical Science and Discovery*, 10(1), 25–30. <https://doi.org/10.36472/msd.v10i1.861>

Kumar A, George C, Campbell MH, Krishnamurthy K, Lashley PM, Singh V, Motilal S, Sakhamuri S, Thompson T, SinQuee-Brown C, Sa B, Majumder AA. (2022) "Item Analysis of Multiple Choice and Extended Matching Questions in the Final MBBS Medicine and Therapeutics Examination." *J Med Edu*. 21(1):e129450. doi: 10.5812/jme-129450

# PUBLICATIONS AND CONFERENCES

ONLINE ONLY

## Department of Clinical Medical Science

M Reece-Mills, C Bodkyn, JAB Baxter, U Allen, C Alexis, The Lancet Regional Health–Americas 26 Giddings, S. , Seecheran NA., Ramlackhansingh A., Sandy S. Sakhamuri, S. 1. Seecheran NA, Rafeeq S, Maharaj N, Swarath S, Seecheran V, Seecheran R, Seebalack V, Jagdeo CL, Seemongal-Dass R, Quert AYL, Giddings S, Ramlackhansingh A, Sandy S, Motilal S, Seemongal-Dass R. (2023) "Correlation of RETINAL Artery Diameter with Coronary Artery Disease: The RETINA CAD Pilot Study-Are the Eyes the Windows to the Heart?" *Cardiol Ther.* Sep;12(3):499-509. doi: 10.1007/s40119-023-00320-x. Epub 2023 Jun 15. PMID: 37318673; PMCID: PMC10423171.

Swarath S, Maharaj N, Seecheran R, Seecheran V, Kawall J, Giddings S, Seecheran NA. (2023) "Leptospirosis-Induced Myocarditis and Arrhythmias." *J Investig Med High Impact Case Rep.* Jan/Dec;11:23247096231179450. doi: 10.1177/23247096231179450. PMID: 37287275.

Sharma, Amrit; Sakhamuri, Sateesh; Giddings, Stanley. (2023). "Recurrent fearful isolated sleep paralysis – A distressing comorbid condition of obstructive sleep apnea." *Journal of Family Medicine and Primary Care* 12(3):p 578-580, March | DOI: 10.4103/jfmpc.jfmpc\_1127\_22

Sahadeo NSD, Nicholls S, Moreira FRR, O'Toole Á, Ramkissoon V, Whittaker C, Hill V, McCrone JT, Mohammed N, Ramjag A, Brown Jordan A, Hill SC, Singh R, Nathaniel-Girdharrie SM, Hinds A, Ramkissoon N, Parag KV, Nandram N, Parasram R, Khan-Mohammed Z, Edghill L, Indar L, Andrewin A, Sealey-Thomas R, McMillan P, Oyinloye A, George K, Potter I, Lee J, Johnson D, Charles S, Singh N, Bisesor-McKenzie J, Laws H, Belmar-George S, Keizer-Beache S, Greenaway-Duberry S, Ashwood N, Foster JE, Georges K, Naidu R, Ivey M, Giddings S, Haraksingh R,

Ramsubhag A, Jayaraman J, Chinnadurai C, Oura C, Pybus OG, St John J, Gonzalez-Escobar G, Faria NR, Carrington CVF. (2023) "Implementation of genomic surveillance of SARS-CoV-2 in the Caribbean: Lessons learned for sustainability in resource-limited settings." *PLOS Glob Public Health.* Feb 22;3(2):e0001455. doi: 10.1371/journal.pgph.0001455. PMID: 36963002; PMCID: PMC10022082.

Seecheran NA, Sukha D, Grimaldos K, Grimaldos G, Richard S, Ishmael A, Gomes C, Kampradi L, Seecheran R, Seecheran V, Peram L, Dookeeram D, Giddings S, Sandy S, Ramlackhansingh A, Raza S, Umaharan P, Tello-Montoliu A, Schneider D. (2022) "Effect of cocoa (Theobroma cacao L.) on platelet function testing profiles in patients with coronary artery disease: ECLAIR pilot study." *Open Heart.* Sep;9(2):e002066. doi: 10.1136/openhrt-2022-002066. PMID: 36100318; PMCID: PMC9472200.

Hutchinson, G. 1. Oloniniyi IO, Weiss H, John S, Esan O, Hibben M, Patel V, Murray RM, Cohen A, Hutchinson G Gureje O, Thara R, Morgan C, , Roberts T (2022) "Life events and psychosis – a case control study from India, Nigeria and Trinidad." *BJ Psych Open,* Sep 16 : 8 (5), e 168, doi: 10.1192/bjo 2022, 562 .

Morgan C, Cohen A, Esponda GM, Roberts T, John S, Pow JL, Donald C, Olley B, Ayinde O, Lam J, Poornachandrika P, Dazzan P, Gaughran F, Kannan PP, Sudhakar S, Burns J, Chiliza B, Susser E, Weiss HA, Murray RM, Rangaswamy T, Gureje O, Hutchinson G; INTREPID Group (2023) "Epidemiology of Untreated Psychosis in 3 Diverse Settings in the Global South : The International Research Program on Psychosis in Diverse Settings (INTREPID II)." *JAMA Psychiatry,* 80 (1), 40-48.

Lee Pow J, Donald C, di Forti M, Roberts T, Weiss HA, Ayinde O, John S, Olley B, Ojagbemi A, Esponda GM, Lam J, Poornachandrika P, Dazzan P, Gaughran F, Kannan PP, Sudhakar S, Burns J, Chiliza B; INTREPID Group; Cohen A, Gureje O, Thara R, Murray RM, Morgan C, Hutchinson G. (2023) "Cannabis use and psychotic disorders in diverse settings in the Global South: findings from INTREPID II." *Psychological Medicine*, Mar 23: 1-8; doi : 10/1017/S0033291723000399

Roberts T, Susser E, Lee Pow J, Donald C, John S, Raghavan V, Ayinde O, Olley B, Miguel Esponda G, Lam J, Murray RM, Cohen A, Weiss HA, Hutchinson G, Thara R, Gureje O, Burns J; INTREPID Group; Morgan C (2023) "Urbanicity and rates of untreated psychotic disorders in three diverse settings in the Global South." *Psychological Medicine* Jan 16:1-9. Doi: 10.1017/S0033291722003749.

Pollard R, Fisher HL, Fearon P, Morgan KD, Lappin J, Hutchinson G., Doody GA, Murray R, Jones PB, Morgan C, Dazzan P (2023) "Parental bonding style and illness severity in a longitudinal cohort with first episode psychosis." *Archives of Women's Health*. DOI: 10.1007/s00737-023-01351-y

Rampersad, F. 1. Partheeban S, Chan A, Diljohn J, Cassim N, Rampersad F. (2023) "Importance of Imaging in the Detection of Intra-oral Foreign Body." *Cureus* May 25; 15(5): e39500. Doi: 10.7759/cureus

Cassim N, Diljohn J, Rampersad F, Chan A. (2023) "Superior Mesenteric Artery Thrombosis in a Patient With Median Arcuate Ligament Syndrome." *Cureus* May 22;15(5):e39351. doi:10.7759/cureus.39351

Mohammed SR, Rampersad F, Panday A. (2022) "The utility of 18F-FDG PET/CT in the diagnosis of metastatic brachial plexopathies." *Journal of the Royal College of Physicians of Edinburgh*. Dec;52:361.

Mohan N, Dalip D, Rampersad F S, et al. (2022) "Paclitaxel-Induced Pneumonitis in Trinidad: A Case Report." *Cureus* July; 14(7): e26613. doi:10.7759/cureus.26613

Khan K, Khan-Ventour Z, Reid SD (2023) "Mentorship perceptions and preferences among students in health programmes." *Caribbean Educational Research Journal* April;8(1), 27-45.

Motilal S, Khan R, St. Bernard G, Ivey MA, Reid SD. (2022) "Positive influences of the COVID-19 pandemic on community dwelling adults in Trinidad and Tobago: a cross sectional study". *Journal of Mental Health*. Sep 9;0(0):1–10.

Seecheran NA, Sukha D, Grimaldos K, Grimaldos G, Richard S, Ishmael A, Gomes C, Kampradi L, Seecheran R, Seecheran V, Peram L, Dookeeram D, Giddings S, Sandy S, Ramlackhansingh A, Raza S, Umaharan P, Tello-Montoliu A, Schneider D. (2022) "Effect of cocoa (Theobroma cacao L.) on platelet function testing profiles in patients with coronary artery disease: ECLAIR pilot study." *Open Heart*. 2022 Sep;9(2):e002066. doi: 10.1136/openhrt-2022-002066. PMID: 36100318 Free PMC article.

Swarath S, Maharaj N, Lalchansingh D, Seecheran R, Seecheran V, Leyva Quert AY, Seecheran NA. (2022) "Alcohol Binge Drinking-Induced ST-Segment-Elevation Acute Coronary Syndrome." *J Investig Med High Impact Case Rep*. Jan-Dec;10:23247096221133192. doi:10.1177/23247096221133192. PMID: 36286618 Free PMC article.

# PUBLICATIONS AND CONFERENCES

ONLINE ONLY

Maharaj N, Swarath S, Seecheran R, Seecheran V, Seecheran NA. (2022) "Suspected Cannabis Vaping-Induced Pericardial Effusion." *J Investig Med High Impact Case Rep.* Jan-Dec;10:23247096221140251. doi: 10.1177/23247096221140251. PMID: 36412279 Free PMC article.

Maharaj N, Swarath S, Seecheran R, Seecheran V, Panday A, Seecheran N. (2023) "Suspected COVID-19 mRNA Vaccine-Induced Postural Orthostatic Tachycardia Syndrome." *Cureus.* Jan 26;15(1):e34236. doi: 10.7759/cureus.34236. eCollection 2023 Jan. PMID: 36852364 Free PMC article.

Swarath S, Maharaj N, Seecheran R, Seecheran V, Kawall J, Giddings S, Seecheran NA. (2023) "Leptospirosis-Induced Myocarditis and Arrhythmias." *J Investig Med High Impact Case Rep.* Jan-Dec;11:23247096231179450. doi: 10.1177/23247096231179450. PMID: 37287275 Free PMC article.

Seecheran NA, Rafeeq S, Maharaj N, Swarath S, Seecheran V, Seecheran R, Seebalack V, Jagdeo CL, Seemongal-Dass R, Quert AYL, Giddings S, Ramlackhansingh A, Sandy S, Motilal S, Seemongal-Dass R. (2023) "Correlation of RETINAL Artery Diameter with Coronary Artery Disease: The RETINA CAD Pilot Study-Are the Eyes the Windows to the Heart?" *Cardiol Ther.* 2023 Sep;12(3):499-509. doi: 10.1007/s40119-023-00320-x. Epub Jun 15. PMID: 37318673 Free PMC article.

Harnanan D, Parbhu S, Pran L, Baboolal I, Harnarayan P, Naraynsingh V, Seecheran N. (2023) "Endovascular Revascularization and Outcomes of Critical Limb-Threatening Ischemia in Trinidad and Tobago: The EVENT Pilot Study-Challenges in a Limited-Resource, Caribbean Setting." *Cardiol Ther.* Sep;12(3):511-524. doi: 10.1007/s40119-023-00322-9. Epub 2023 Jun 17. PMID: 37329412 Free PMC article.

Swarath S, Maharaj N, Hall A, Frederick JM, Seecheran R, Seecheran V, Seecheran NA. (2023) "The South African Flag Sign: An Electrocardiographic Flag for All Coronary Territories?" *J Investig Med High Impact Case Rep.* Jan-Dec;11:23247096231192861. doi: 10.1177/23247096231192861. PMID: 37559377 Free PMC article.

Swarath S, Maharaj N, Kawall T, Seecheran R, Seecheran V, Giddings S, Seecheran NA. (2023) "Culture-Negative Endocarditis in an Immunocompromised Patient: A Case of Suspected Bartonella and Coxiella Co-Infection." *J Investig Med High Impact Case Rep.* Jan-Dec;11:23247096231192811. doi: 10.1177/23247096231192811. PMID: 37559398 Free PMC article.

Singh. V. 1. (2022) "Recurrent Cerebral Venous Sinus Thromboses (CVST's) and livedo reticularis rash. A case of Sneddon syndrome: Clinical Practice 2022 19 (4) 2. Item Analysis of Multiple Choice and Extended Matching Questions in the Final MBBS Medicine and Therapeutics Examination." *J Med Edu.* December; 21(1):e129450.

Ali K, Mohammed S, Persad D, Jaggernauth J, Sakhamuri S, Teelucksingh S. Am. (2023) "Sarcoidosis with Lupus Pernio in an Afro-Caribbean Man." *J Med.* Apr;136(4):e67-e68. doi: 10.1016/j.amjmed.2022.12.019. Epub 2023 Jan 14. PMID: 36649836 No abstract available.

Talukdar D, Tripathi M, Tripathi V, Teelucksingh S. (2022) "Retraction Note to: Prevalence and associated factors of undiagnosed hypertension among women aged 15-49 years in India: an analysis of National Family Health Survey-4 data." *J Hum Hypertens.* Oct;36(10):944. doi: 10.1038/s41371-022-00752-3

### Department of Clinical Surgical Sciences

Newnham, M. S., Dan, D., Maharaj, R., & Plummer, J. M. (2023). "Surgical training in the Caribbean: The past, the present, and the future." *Frontiers in Surgery*, 10, 1203490. <https://doi.org/10.3389/fsurg.2023.1203490>

Nicholas, R., Cave, C., Barrow, T., Johncilla, M., & Dan, D. (2022). "Laparoscopic adrenalectomy for a giant adrenal teratoma: A case report and review of the literature." *International Journal of Surgery Case Reports*, 99, 107645. <https://doi.org/10.1016/j.ijscr.2022.107645>

Cawich, S. O., Fortune, M., Deshpande, R., Gardner, M., Pearce, N., Johnson, P., & Naraynsingh, V. (2022). "A Comparison of the Celiacomesenteric Trunk in the Caribbean with Global Prevalence Calculated by a Systematic Review." *Radiology Research and Practice*, 2022, 1715631. <https://doi.org/10.1155/2022/1715631>

Cawich, S. O., Pearce, N. W., Naraynsingh, V., Shukla, P., & Deshpande, R. R. (2022). "Whipple's operation with a modified centralization concept: A model in low-volume Caribbean centers." *World Journal of Clinical Cases*, 10(22), 7620–7630. <https://doi.org/10.12998/wjcc.v10.i22.7620>

Cawich, S. O., Spence, R., Senasi, R., & Naraynsingh, V. (2022). "Robot-Assisted Common Bile Duct Exploration in Trinidad & Tobago." *Cureus*, 14(11), e30965. <https://doi.org/10.7759/cureus.30965>

Cawich, S. O., Thomas, D. A., Pearce, N. W., & Naraynsingh, V. (2022). "Whipple's pancreaticoduodenectomy at a resource-poor, low-volume center in Trinidad and Tobago." *World Journal of Clinical Oncology*, 13(9), 738–747. <https://doi.org/10.5306/wjco.v13.i9.738>

Mencia, M. M., Bidaisee, S., Quan Soon, C., & Cawich, S. O. (2022). "Greater Gender Diversity Observed at Orthopaedic Conferences in the Caribbean Than in the United States or England." *Cureus*, 14(8), e28224. <https://doi.org/10.7759/cureus.28224>

Islam, S., Shah, A., Maughn, A., Dial, S., Mahabir, A., Naraynsingh, V., & Harnarayan, P. (2023). "Necrotizing Soft Tissue Infections of the Breast: A Potentially Lethal Surgical Emergency." *Case Reports in Surgery*, 2023, 4695019. <https://doi.org/10.1155/2023/4695019>

Islam, S., Shah, A., Naraynsingh, V., & Harnarayan, P. (2023). "Acute Gastric Dilatation With Ischemia and Perforation Requiring Emergency Total Gastrectomy: A Case of Suspected Abdominal Compartment Syndrome." *Cureus*, 15(7), e41265. <https://doi.org/10.7759/cureus.41265>

Teelucksingh, S., Deonarine, V., Islam, S., O'Cawich, S., Harnanan, D., & Naraynsingh, V. (2023). "Necrotizing Fasciitis: Myalgia Is Diagnostic? A Case Series and Literature Review." *The International Journal of Lower Extremity Wounds*, 22(1), 6–10. <https://doi.org/10.1177/1534734620958605>

Figaro, N. J., Figaro, K. A., Juman, J. S., Arozarena, R., Davis King, K., & Juman, S. (2023). "Pediatric-Onset Relapsing Polychondritis With Otolaryngeal Manifestations." *Cureus*, 15(6), e40085. <https://doi.org/10.7759/cureus.40085>

Mencia, M. M., & Goalan, R. (2023). "Bilateral Posterior Fracture-Dislocation of the Shoulders Secondary to Uremic Encephalopathy." *Journal of the American Academy of Orthopaedic Surgeons*. Global Research & Reviews, 7(1), e20.00255. <https://doi.org/10.5435/JAAOSGlobal-D-20-00255>

# PUBLICATIONS AND CONFERENCES

ONLINE ONLY

Bidaisee, S., Hernandez Cruz, P. P., & Mencia, M. M. (2022). "Reasons for day of surgery cancellation of orthopaedic cases following a major earthquake in Trinidad and Tobago." *Journal of Perioperative Practice*, 32(11), 320–325. <https://doi.org/10.1177/17504589211045228>

Mencia, M. M., & Moonsie, R. (2022). "Removing a bent femoral nail - man versus metal: A case report." *International Journal of Surgery Case Reports*, 99, 107679. <https://doi.org/10.1016/j.ijscr.2022.107679>

Mencia, M. M., & Goalan, R. (2022). "Complex pediatric "Spin Dryer" injuries - An uncommon mechanism and pattern of synchronous upper limb fractures." *African Journal of Paediatric Surgery*: AJPS, 19(4), 261–264. [https://doi.org/10.4103/ajps.ajps\\_130\\_21](https://doi.org/10.4103/ajps.ajps_130_21)

Mencia, M. M., Pattron, R., Goalan, R., & Pong, C. Y. (2023). "Intramedullary reamer failure in orthopaedic surgery: Two case reports and practical recommendations for prevention." *Trauma Case Reports*, 46, 100860. <https://doi.org/10.1016/j.tcr.2023.100860>

Mencia, M. M., & Cruz, P. P. H. (2023). "Conversion hip arthroplasty for failed internal fixation of ipsilateral femoral neck and shaft fractures: a case report." *Patient Safety in Surgery*, 17(1), 1. <https://doi.org/10.1186/s13037-023-00352-1>

Mencia, M., Moonsie, R., & Hernandez Cruz, P. (2022). "Hip Fracture Surgery in Trinidad and Tobago During the COVID-19 Pandemic: An Analysis of Two Patients Treated in the Parallel Healthcare System." *Cureus*, 14(10), e30503. <https://doi.org/10.7759/cureus.30503>

Beharry, A. C., Quan Soon, C. H., Augustus, M., Toby, D., & Thomas, D. (2023). Increasing incidence of slipped capital femoral epiphysis in Trinidad and Tobago: A 50-year review." *Tropical Doctor*, 53(1), 85–90. <https://doi.org/10.1177/00494755221130562>

Ramdass, M. J., Rambocas, N., Hosein, Y., Thomas, D., & Barrow, M. (2023). "Parasitic Uterine Leiomyoma with Arteriovenous Malformation, Portal Hypertension, and Cardiac Failure." *Journal of Obstetrics and Gynaecology Canada* : JOGC = Journal d'obstetrique et gynecologie du Canada : JOGC, 45(5), 295–296. <https://doi.org/10.1016/j.jogc.2021.08.012>

Ramdass, M. J., Gonzales, J., Maharaj, D., Simeon, D., & Barrow, S. (2022). "Breast Carcinoma Receptor Expression in a Caribbean Population." *Surgery Journal* (New York, N.Y.), 8(3), e262–e265. <https://doi.org/10.1055/s-0042-1756632>

Bahall, V., De Barry, L., & Singh, K. (2022). "Thoracic endometriosis masquerading as Meigs' syndrome in a young woman: A case report and literature review." *Case Reports in Women's Health*, 36, e00452. <https://doi.org/10.1016/j.crwh.2022.e00452>

Singh, K., Carvalho, R., Tinne, A., Bahall, V., De Barry, L., & Sankar, S. (2023). "Perioperative challenges following management of spontaneous hepatic rupture in a parturient with severe pre-eclampsia - A case report." *Case Reports in Women's Health*, 37, e00499. <https://doi.org/10.1016/j.crwh.2023.e00499>

Singh, K., & Heralal, H. (2023). "The Effect of a Simple Perioperative Video on Maternal Anxiety and Satisfaction Before Regional Anesthesia in a Caribbean Setting: A Randomized Controlled Trial." *Cureus*, 15(3), e36482. <https://doi.org/10.7759/cureus.36482>



Bahall, V., De Barry, L., & Singh, K. (2023). "A Practical Approach to Total Laparoscopic Hysterectomy in a Morbidly Obese Patient: A Case Report and Literature Review." *Cureus*, 15(1), e34416. <https://doi.org/10.7759/cureus.34416>

Khan, S., Sohan, K., Mohammed, Z. C. M., & Bachan, V. (2023). "COVID-19 Vaccine Uptake, Acceptance, and Reasons for Vaccine Hesitancy: A Cross-Sectional Study among Pregnant Women in Trinidad, West Indies [Response To Letter]." *International Journal of Women's Health*, 15, 621–622. <https://doi.org/10.2147/IJWH.S415226>

Khan, S., Sohan, K., Mohammed, Z. C. M., & Bachan, V. (2023). "COVID-19 Vaccine Uptake, Acceptance, and Reasons for Vaccine Hesitancy: A Cross-Sectional Study Among Pregnant Women in Trinidad, West Indies." *International Journal of Women's Health*, 15, 343–354. <https://doi.org/10.2147/IJWH.S396884>

Gopaul, C. D., Ventour, D., & Thomas, D. (2022). "Laboratory predictors for COVID-19 Intensive Care Unit admissions in Trinidad and Tobago." *Dialogues in Health*, 1, 100022. <https://doi.org/10.1016/j.dialog.2022.100022>

Gopaul, C. D., Singh, A., Williams, A., Ventour, D., & Thomas, D. (2023). "Cancer morbidity and mortality trends in Trinidad and Tobago (2008-2018)." *Journal of Health, Population, and Nutrition*, 42(1), 58. <https://doi.org/10.1186/s41043-023-00395-1>

Gopaul, C. D., Ventour, D., & Thomas, D. (2022). "COVID-19 Vaccine Acceptance and Uptake among Healthcare Workers in Trinidad and Tobago." *Journal of Environmental and Public Health*, 2022, 5031202. <https://doi.org/10.1155/2022/5031202>

Justiz-Vaillant, A. A., Gopaul, D., Akpaka, P. E., Soodeen, S., & Arozarena Fundora, R. (2023). "Severe Combined Immunodeficiency-Classification, Microbiology Association and Treatment." *Microorganisms*, 11(6), 1589. <https://doi.org/10.3390/microorganisms11061589>

Persad, S., Mehra, S., & Harry, V. (2023). "Attitudes and Perceived Barriers to Research Among Residents in Obstetrics and Gynecology in Trinidad and Tobago: A National Multicenter Cross-sectional Study." *Journal of Medical Education and Curricular Development*, 10, 23821205231168221. <https://doi.org/10.1177/23821205231168221>

Joshi, M. R., Voison, K. J., Piano, M., Farnon, N., & Bex, P. J. (2023). "A novel tool for quantitative measurement of distortion in keratoconus." *Eye* (London, England), 37(9), 1788–1793. <https://doi.org/10.1038/s41433-022-02240-x>

Jankie, S., Sewdass, K., Smith, W., Naraynsingh, C., Johnson, J., Farnon, N., Mahadeo, K., & Motilal, S. (2023). "A cross-sectional survey of prospective healthcare professionals' knowledge, attitudes and perceptions of medical Cannabis." *Exploratory Research in Clinical and Social Pharmacy*, 10, 100275. <https://doi.org/10.1016/j.rcsop.2023.100275>

Ezinne, N. E., Kwarteng, M. A., Ekemiri, K. K., Iroanachi, V. I., Tagoh, S., Ogbonna, G., & Mashige, K. P. (2023). "Clinical Profile of Primary Open-angle Glaucoma Patients at an Eye Center in Nigeria." *Journal of Current Glaucoma Practice*, 17(3), 113–117. <https://doi.org/10.5005/jp-journals-10078-1413>

# PUBLICATIONS AND CONFERENCES

ONLINE ONLY

Ezinne, N. E., Anyasodor, A. E., Bhattarai, D., Ekemiri, K. K., Aliah, J., Kureem, P., Kwarteng, M. A., Mashige, K. P., & Osuagwu, U. L. (2023). "Knowledge, attitude and perception of optometrists in Trinidad and Tobago towards teleoptometry." *Heliyon*, 9(2), e13686. <https://doi.org/10.1016/j.heliyon.2023.e13686>

Ezinne, N. E., Ekemiri, K. K., Harbajan, G. N., Crooks, A. C., Douglas, D., Illechie, A. A., & Mashige, K. P. (2022). "Contact Lens Prescribing Patterns in a University Clinic in Trinidad and Tobago." *Vision* (Basel, Switzerland), 6(3), 55. <https://doi.org/10.3390/vision6030055>

Ezinne, N. E., Shittu, O., Ekemiri, K. K., Kwarteng, M. A., Tagoh, S., Ogonna, G., & Mashige, K. P. (2022). "Visual Impairment and Blindness among Patients at Nigeria Army Eye Centre, Bonny Cantonment Lagos, Nigeria." *Healthcare* (Basel, Switzerland), 10(11), 2312. <https://doi.org/10.3390/healthcare10112312>

Ezinne, N., Alemu, H. W., Cheklie, T., Ekemiri, K., Mohammed, R., & James, S. (2023). "High Prevalence of Symptomatic Dry Eye Disease Among University Students During the COVID-19 Pandemic in University of West Indies, Trinidad and Tobago." *Clinical Optometry*, 15, 37–43. <https://doi.org/10.2147/OPTO.S396135>

Ekemiri, K. K., Botchway, E. N., Ezinne, N. E., Sirju, N., Persad, T., Masemola, H. C., Chidarikire, S., Ekemiri, C. C., & Osuagwu, U. L. (2023). "Comparative Analysis of Health- and Vision-Related Quality of Life Measures among Trinidadians with Low Vision and Normal Vision-A Cross-Sectional Matched Sample Study." *International Journal of Environmental Research and Public Health*, 20(14), 6436. <https://doi.org/10.3390/ijerph20146436>

Jogie, J. A., Maharaj, A., Mahase, T., Bhagwandeem, S., Ramcharan, L., Mohammed, R., Ramdass, J., & Deyalsingh, V. (2023). "A Preliminary Analysis of Ki-67 Expression in Breast Cancer in the Caribbean." *Cureus*, 15(4), e38351. <https://doi.org/10.7759/cureus.38351>

Harnarayan, P., Budhooram, S., Harnanan, D., Ramdass, M. J., Islam, S., & Naraynsingh, V. (2022). "Gender Influence on Abdominal Aortic Aneurysm Surgery in a Caribbean Population." *The International Journal of Angiology* : Official Publication of the International College of Angiology, Inc, 32(1), 26–33. <https://doi.org/10.1055/s-0042-1750017>

Cawich, S. O., Harnarayan, P., Maharaj, R., Singh, Y., Ramdass, M. J., & Naraynsingh, V. (2022). "A Survey of Surgical Trainees in Trinidad & Tobago Using a Robotic Laparoscopic Camera Holder." *Medical Research Archives*, 10(8).

Cawich, S. O., Narayansingh, G., Ramdass, M. J., Mencia, M., Thomas, D. A., Barrow, S., & Naraynsingh, V. (2022). "Responses to disrupted operative care during the coronavirus pandemic at a Caribbean hospital." *World Journal of Meta-Analysis*, 10(3), 74-80.

Figaro, N. J., Figaro, K. A., Juman, J. S., Arozarena, R., Davis King, K., & Juman, S. (2023). "Pediatric-Onset Relapsing Polychondritis With Otolaryngeal Manifestations." *Cureus*, 15(6), e40085. <https://doi.org/10.7759/cureus.40085>

## SCHOOL OF DENTISTRY

A Justiz-Vaillant-Vaillant, T Hoyte, D Nikao, C Deonarinesingh, A De Silva et. al. (2023) "A systematic Review of the Clinical Diagnosis of Transient Hypogammaglobulinemia of Infancy." *Children* (Basel). Aug 8;10(8):1358

Aswal GS, Rawat R, Dwivedi D, et al. (2022) "Diagnosis and management of mucormycosis in the dental clinic - A guide for oral health professionals in India." *Journal of Family Medicine and Primary Care*. Aug; 11(8): 4293–8. [https://doi.org/10.4103%2Fjfmipc.jfmipc\\_1373\\_21](https://doi.org/10.4103%2Fjfmipc.jfmipc_1373_21).

Aswal GS, Rawat R, Dwivedi D, et al. (2023) "Clinical outcomes of CAD/CAM and conventional ceramic materials for full-and partial-coverage fixed restorations-A systematic review and meta-analysis." *Cureus*;15(4): e37888. doi:10.7759/cureus.37888. PMID: 37213959

Hector, T., Balkaran, R., Marchan, S.M. (2023) "The Educational Experiences and Personal Attitudes of Dental Students towards Patients with Special Needs in Trinidad and Tobago." *Portuguese Journal of Public Health*. 10.1159/000528858

Hoyte T, Ali A, Mahabir A. (2022) "A Preliminary Study Investigating the Impact of the COVID-19 Pandemic on Dental Education in the Caribbean: A Student's Perspective." *Oral*. Sep 22;2(4):251-62.

Jankie S, Sewdass K, Smith W, Naraynsingh C, Johnson J, Farnon N, Mahadeo K, Motilal S. (2023) "A cross-sectional survey of prospective healthcare professionals' knowledge, attitudes and perceptions of medical Cannabis." *Explor Res Clin Soc Pharm*. Apr 21;10:100275. doi: 10.1016/j.rcsop.2023.100275

Marchan S, Rajhbeharrysingh, A; Bascombe K, Smith W. (2023) "Qualitative characterization of the abrasive component of charcoal-containing toothpastes and the on-dentin roughness." *Int. J. Odontostomat.*, 17(3):346-355.

Marchan S.M., Coldero L.G. & Smith W.A. (2023) "An evaluation of the relationship between clinical requirements and tests of competence in a competency-based curriculum in dentistry." *BMC Med Educ* 23, 585. <https://doi.org/10.1186/s12909-023-04438-3>

Marchan S.M., Thorpe M., Balkaran, R. (2022) "The knowledge of clinical dental students on the oral effects and consequences of cannabis use: implications for curricular modification." *Academic Journal of Health Sciences*; 37(5); 81-86.

Marchan SM, Bascombe K, Smith WAJ. (2022) "The Cleaning and Whitening Ability of Charcoal Containing Toothpastes and Homeopathic Remedies on Human Tooth Enamel." *International Journal of Odontostomatology*, 16(5) 435-440.

Marchan, SM, Coppin, E, & Balkaran, R. (2022) "Unmet Dental Treatment Needs and Barriers to Dental Care of Patients with Special Needs Attending a Dental Teaching Hospital." *Portuguese Journal of Public Health*, 1-6.

Naidu RS, Lutchmansingh F, Sharma A, Teelucksingh S. (2023) "Need for policy to reduce sugar consumption in Trinidad and Tobago." *West Indian Medical Journal*: 69; 645-649.

Rafeek RN, Sa B, Smith WA. (2023) "Vaccine acceptance, knowledge, attitude and practices regarding the COVID-19 pandemic: Cross-Sectional Study Among Dentists in Trinidad & Tobago." *Dentistry Journal* ; 11, 86. <https://doi.org/10.3390/dj11030086>

# PUBLICATIONS AND CONFERENCES

## ONLINE ONLY

Ramlogan S, Raman V (2023) "An Afro-Caribbean adolescent with moderate hypodontia managed with a partial flexible denture." *Dental Update* April 50;4;275-277.

Ramlogan S, Raman V. (2022) "An educational approach for early student self-assessment in clinical periodontology. BMC Medical Education." Dec;22:1-1.

Ramroop V, Balkaran R, Bissoon A, Kowlessar A, Dookeram D. (2022) "Knowledge, attitudes and practices of a group of medical practitioners in Trinidad toward oral health during pregnancy." *Caribbean Medical Journal*. June. DOAJ: 7341e2f92de346fcb16d83d887a7b580

Reid SD, Sa B, Giddings S, Rafeek R, Singh S, Harnarayan P, Farnon N, (2023) "What the COVID-19 Pandemic Taught Medical Educators in the Caribbean about Online Clinical Teaching." *International Medical Education*; 2: 219–231. <https://doi.org/10.3390/ime2030021>

Sa B, Patrick C, Pascall O, Patrick J, Pierre S, Pillai D, Persad K, Patterson, A, Peterson N, Rafeek R. (2023) "Knowledge, Attitudes and Institutional Readiness towards Social Accountability as Perceived by Medical Students at the University of the West Indies in Trinidad." *International. Medical Education*; 2:11–25. <https://doi.org/10.3390/ime2010002>

Sagewan I, Naidu R, Ramroop V. (2023) "Referral patterns to the paediatric dental emergency clinic at the University of the West Indies School of Dentistry, Trinidad and Tobago." *Caribbean Medical Journal*; 85: 2

Sahadeo NSD, Nicholls S, Moreira FRR, O'Toole Á, Ramkissoon V, Whittaker C, Hill V, McCrone JT, Mohammed N, Ramjag A, Brown Jordan A, Hill SC, Singh R, Nathaniel-Girdharrie SM, Hinds A, Ramkissoon N, Parag KV, Nandram N, Parasram R, Khan-Mohammed Z, Edghill L, Indar L, Andrewin A, Sealey-Thomas R, McMillan P, Oyinloye A, George K, Potter I, Lee J, Johnson D, Charles S, Singh N, Bisor-McKenzie J, Laws H, Belmar-George S, Keizer-Beache S, Greenaway-Duberry S, Ashwood N, Foster JE, Georges K, Naidu R, Ivey M, Giddings S, Haraksingh R, Ramsubhag A, Jayaraman J, Chinnadurai C, Oura C, Pybus OG, St John J, Gonzalez-Escobar G, Faria NR, Carrington CVF. (2023) "Implementation of genomic surveillance of SARS-CoV-2 in the Caribbean: Lessons learned for sustainability in resource-limited settings." *PLOS Glob Public Health*. 2023 Feb 22;3(2):e0001455. doi: 10.1371/journal.pgph.0001455. Erratum in: *PLOS Glob Public Health*. Sep 11;3(9):e0002393. PMID: 36963002; PMCID: PMC10022082

Shaama FA, Wilson AM, Rafeek RN. (2022) "The pH and titration values of commonly used beverages in Trinidad: A cross-sectional study." *Journal of Health Research and Reviews* 9:39-43.

T Hoyte, A Ali, D Bearn (2023) "Applicability of the IOTN-AC index in a bimaxillary protrusion population." *Australasian Orthodontic Journal* 39(1)

## SCHOOL OF NURSING

Reece-Mills M., Bodkyn C., Baxter Jo-Anna B., Allen U. MBBS, Alexis C., Browne-Farmer C., Craig Jenna, de Young S., Denburg A., Dindial K., Bonnie Fleming-C., Gibson T., Gupta S., Knight-Madden J., Manley-Kucey M., Mclean-Salmon S., O.N. Ocho, Orrigio K., Read S., Sin Quee C., Smith B., Thame M., Wharfe G., Whitlock James A., Zlotkin S., Blanchette V. (2023). "Developing a partnership to improve health care delivery to children <18 years with cancer and blood disorders in the English-speaking Caribbean: Lessons from the SickKids-Caribbean Initiative (SCI)." *The Lancet Regional Health* – Americas. Accepted for publication August 31.

Cathala, X., Ocho, O.N., Mcintosh, N., Watts, P. N., & Moorley, C. (2022). "An exploration of social participation in Caribbean student nurses' use of social media in their learning journey." *Journal of Advanced Nursing*, 00, 1–11. <https://doi.org/10.1111/jan.15499>.

Ocho, O.N., Moorley, C., Richardson Sheppard, C., Caesar Greasley, L. and Hardy, S. (2022). "Cultural influences on mental health provision in the Caribbean: How do contemporary perceptions and beliefs about persons with mental illness inform workforce transformation?" *Journal of Transcultural Nursing*. doi:10.1177/10436596221121329.

## SCHOOL OF PHARMACY

Mittal S, Shah S, Narayan Yadav H, Ali J, Gupta MM, Baboota S. (2023) "Quality by design engineered, enhanced anticancer activity of temozolomide and resveratrol coloaded NLC and brain targeting via lactoferrin conjugation in treatment of glioblastoma." *European Journal of Pharmaceutics and Biopharmaceutics*. Aug 28:50939-6411(23)00231-X. doi: 10.1016/j.ejpb.2023.08.018.

Kaushal N, Kumar M, Tiwari A, Tiwari V, Sharma K, Sharma A, Marisetti AL, Gupta MM, Kazmi I, Alzarea SI, Almalki WH, Gupta G. (2023) "Polymeric micelles loaded in situ gel with prednisolone acetate for ocular inflammation: development and evaluation." *Nanomedicine (Lond)*. Sep 13. doi: 10.2217/nnm-2023-0123.

Gupta MM, Chatterjee A, Kumawat T. (2023) "Troubleshooting the Poor Flow Problem of Valsartan Drug Powder Using the Crystallo-Co-Agglomeration Technique." *Cureus*. May 5;15(5):e38590. doi: 10.7759/cureus.38590.

Jain V, Sinha SK, Rustage K, Pareek A, Srivastava M, Meena MK, Shakya A, Gupta MM, Rai N, Pareek A, Ratan Y, Chen MH, Prasad SK, Ashraf GM. (2023) "Solasodine Containing Solanum torvum L. Fruit Extract Prevents Chronic Constriction Injury-Induced Neuropathic Pain in Rats: In Silico and In Vivo Evidence of TRPV1 Receptor and Cytokine Inhibition." *Molecular Neurobiology*. Sep;60(9):5378-5394. doi: 10.1007/s12035-023-03412-w

Chaudhary B, Kumar P, Arya P, Singla D, Kumar V, Kumar D, S R, Wadhwa S, Gulati M, Singh SK, Dua K, Gupta G, Gupta MM. (2023) "Recent Developments in the Study of the Microenvironment of Cancer and Drug Delivery." *Current Drug Metabolism*. Jan 10. doi: 10.2174/1389200224666230110145513.

Kumar P, Yadav N, Chaudhary B, Umakanthan S, Chattu VK, Kazmi I, Al-Abbasi FA, Alzarea SI, Afzal O, Alfawaz Altamimi AS, Gupta G, Gupta MM. (2023) "Lipid Nanocapsule: A Novel Approach to Drug Delivery System Formulation Development." *Current Pharmaceutical Biotechnology*. May 23. doi: 10.2174/1389201024666230523114350

# PUBLICATIONS AND CONFERENCES

ONLINE ONLY

Shaikh MAJ, Gupta G, Afzal O, Gupta MM, Goyal A, Altamimi ASA, Alzarea SI, Almalki WH, Kazmi I, Negi P, Singh SK, Dua K. (2023) "Sodium alginate-based drug delivery for diabetes management: A review." *International Journal of Biological Macromolecules*. Mar 10;236:123986. doi: 10.1016/j.ijbiomac.2023.123986

Kumar P, Chaudhary B, Yadav N, Devi S, Pareek A, Alla S, Kajal F, Nowrouzi-Kia B, Chattu VK, Gupta MM. (2023) "Recent Advances in Research and Management of Human Monkeypox Virus: An Emerging Global Health Threat." *Viruses*. 15(4):937. <https://doi.org/10.3390/v15040937>.

Talukdar D, Kumar P, Chaudhary B, Sharma D, Yadav N, Afzal O, Altamimi, ASA, Almalki WH, Alzarea SI, Kazmi I, Pareek A, Gupta G, Gupta M M. (2023) "Biotransformation, multifunctional recycling mechanism of nanostructures, and evaluation of the safety of nanoscale materials." *Particuology*. 82: 76-86.

Pareek A, Pant M, Gupta MM, Kashania P, Ratan Y, Jain V, Pareek A, Chuturgoon AA. (2023) "Moringa oleifera: An Updated Comprehensive Review of Its Pharmacological Activities, Ethnomedicinal, Phytopharmaceutical Formulation, Clinical, Phytochemical, and Toxicological Aspects." *les*. 24(3):2098. <https://doi.org/10.3390/ijms24032098>.

Talukdar D, Kumar P, Sharma D, Balaramnavar VM, Afzal O, Altamimi ASA, Kazmi I, Al-Abbasi FA, Alzarea SI, Gupta G, Gupta MM. (2023) "Anticancer Phytochemical-Based Nanoformulations: Therapeutic Intervention in Cancer Cell Lines." *Journal of Environment Pathology Toxicology and Oncology*. 42(1):79-93.

Harish V, Almalki WH, Alshehri A, Alzahrani A, Gupta MM, Alzarea SI, Kazmi I, Gulati M, Tewari D, Gupta G, Dua K, Singh SK. (2023) "Quality by Design (QbD) Based Method for Estimation of Xanthohumol in Bulk and Solid Lipid Nanoparticles and Validation." *Molecules*. 28(2):472. <https://doi.org/10.3390/molecules28020472>.

Kumar P, Chaudhary B, Jain V, Baboota S, Shivanandy P, Alharbi KS, Ghoneim MM, Alshehri S, Imam SS, Gupta G, Gupta MM. (2022) "Promises of Molecular Pharmaceutics in the Development of Novel Drug Delivery Formulations." *Current Drug Delivery*. Nov 14. doi: 10.2174/156720182066622114113637.

Chaudhary B, Singla D, Arya P, Dabra A, Kumar P, Afzal O, Alfawaz AS, Alzarea SAI, Kazmi I, Al-Abbasi F A, Gupta G, Gupta M M. (2022) "Versatile imidazole synthesis via multicomponent reaction approach." *Journal of Heterocyclic Chemistry*, <https://doi.org/10.1002/jhet.4583>.

Kumar P, Yadav N, Chaudhary B, Jain V, Balaramnavar VM, Alharbi KS, Alenezi SK, Al-Malki WH, Ghoneim MM, Alshehri S, Imam SS, Gupta MM. (2022) "Promises of phytochemical based nano drug delivery systems in the management of cancer." *Chemical Biological Interactions*. Jan 5; 351:109745. doi: 10.1016/j.cbi.2021.109745.

Shaw P, Lokhotiya K, Kumarasamy C, Sunil K, Suresh D, Shetty S, Muthukaliannan GK, Baxi S, Mani RR, Sivanandy P, Chandramoorthy HC, Gupta MM, Samiappan S, Jayaraj R. (2022) "Mapping Research on miRNAs in Cancer: A Global Data Analysis and Bibliometric Profiling Analysis." *Pathophysiology*. 29(1):66-80. <https://doi.org/10.3390/pathophysiology29010007>.

Shaw P, Senthilnathan R, Sankar S, Ilangovan I, Kodiveri Muthukaliannan G, Baxi S, Mani RR, Rajagopal M, Chinnappan S, Balaraman AK, Suresh D, Krishnan S, Gupta MM, Muthusamy T, Paranjothy C, Jayaraj R. (2022) "A Clinical Investigation on the Theragnostic Effect of MicroRNA Biomarkers for Survival Outcome in Cervical Cancer: A PRISMA-P Compliant Protocol for Systematic Review and Comprehensive Meta-Analysis." *Genes*. 13(3):463. <https://doi.org/10.3390/genes13030463>.

Sahu PK, Dalcik H, Dalcik C, Gupta MM, Chattu VK, Umakanthan S. (2022) "Best practices for effective implementation of online teaching and learning in medical and health professions education: during COVID-19 and beyond." *AIMS Public Health*. Jan 27; 9(2):278-292. doi: 10.3934/publichealth.2022019. PMID: 35634030; PMCID: PMC9114788.

Walker KEW, Bankay R, Jankie S, Dhingra S. (2023) "Pharmacovigilance in the Caribbean Countries: an Overview." *Curr Pharmacol Rep*. May 18:1–11. doi: 10.1007/s40495-023-00320-4. Epub ahead of print. PMCID: PMC10191812. Date of publication: 18th May 2023.

Jankie S, Sewdass K, Smith W, Naraynsingh C, Johnson J, Farnon N, Mahadeo K, Motilal S. (2023) "A cross-sectional survey of prospective healthcare professionals' knowledge, attitudes and perceptions of medical Cannabis." *Exploratory Research in Clinical and Social Pharmacy*. Volume 10, 100275, <https://doi.org/10.1016/j.rcsop.2023.100275>.

Jankie S, Sampath S, Pinto Pereira L M (2023) "Contraceptives Are Also Drugs." *Cureus Journal of Medical Sciences*. 2023; 15(2): e35563. doi:10.7759/cureus.35563. Date of publication: 27th February.

Jankie S, Stuart AV, Barsatee N, Dookhan V, Sookdeo K, Hernandez S, Mohammed C. (2022) "Pharmacists knowledge, perception and practice regarding medication disposal." *Exploratory Research in Clinical and Social Pharmacy*. Nov 17;8:100202. doi: 10.1016/j.rcsop.2022.100202. Date of publication: 12th November 2022.

Sakhamuri SM, Jankie S, Pinto Pereira LM. (2022) "Calling on Latin America and the Caribbean countries to recognise the disability from long COVID." *The Lancet Regional Health – Americas*. 2022;15:100362. doi: 10.1016/j.lana.2022.100362. Date of publication: 26th August.

Gothwal SK, Goyal K, Badjatiya HC, Bhakar BL, Dahiya R, Singh Y, et al. (2022) "Estimating the correlation between TYG and CIMT in non-diabetic adult patients." *Obesity Medicine*. Oct 21; 35: 100460. doi:10.1016/j.obmed.2022.100460 [Elsevier] [Best quartile: Q3-Public Health, Environmental and Occupational Health]

## SCHOOL OF VETERINARY MEDICINE

Arjoonsingh, V., R. Suepaul, A. A. Adesiyun. (2023) "Immune response at a vaccine-challenge study using beagle dogs and locally isolated *Leptospira* spp." *Veterinary Immunology and Immunopathology* 255:110522.

Chandrasekhara-Iye, R., R. Kalaka, N. Lakshmanan, A. Kumar, J. William, R. Thirumurugan. (2022) "Cataract Extraction by Phacoemulsification Procedure in a Hybrid Lion (*Panthera leo persica*): A Case Report." *Iran Journal of Veterinary Surgery* 2022; 17(2); Pages: 169-173

# PUBLICATIONS AND CONFERENCES

ONLINE ONLY

Dogondaji, R.A., R. S. Wasagu, M. S. Ismaila, K. Abubakar, S. Umar. (2023) "Raw Milk Proximate Composition Analyses for Some Camels (*Camelus dromedarius*) in Sokoto, Nigeria: Camels raw milk compositional analyses report." *PSM Biological Research* 8(2): 62-68.

Iliyasu, U., H. Ibrahim, U. A. Katsayal, S. I. Muhammad, S. Shehu, W. N. Setzer, J. Sharifi-Rad, A.F. Abdull Razis. (2002) "Phytochemical constituents and pharmacological activities of *Bretonia salicina* (Vahl) Hepper and JRI Wood (Rubiaceae)." *Bulletin of the National Research Centre* 46(1):1-10.

Inshan, A., P. M. Alarc-n-Elbal, M. Mundle, S. A. A. Noble, C. A. L. Oura, J. A. Anzinger, S. L. Sandiford. (2023) The Others: A Systematic Review of the Lesser-Known Arboviruses of the Insular Caribbean. *Viruses* 2023 15(4): 843.

Ismaila MS, Thomas-Rhoden A, Neptune A, Sookram K, Gopaul S, Padarath T, Persad A, Georges K, Sundaram V. (2022) "A Survey on the Rationale Usage of Antimicrobial Agents in Small Animal Clinics and Farms in Trinidad and Jamaica." *Antibiotics* 11(7): 885.

Jones, K. R., R. E. John, V. Sundaram. (2022) "Morpho-Histological Studies of the Gastrointestinal Tract of the Orange-Rumped Agouti (*Dasyprocta leporina* Linnaeus, 1758), with Special Reference to Morphometry and Histometry." *Animals* 12(19): 2493.

Jones, K. R., K. R. Lall, R. Suepaul, G. W. Garcia, (2022) "Systemic Bacterial Infection in a Captive Agouti (*Dasyprocta leporina* Linnaeus, 1758)." *The Scientific World Journal*, 2022:8300247.

Khan, S.A., E. Rian E. Pierneef, N. Gonzalez-Escalona, M. Maguire, K. Georges, W. Abebe, A. A. Adesiyun. (2023) "Phylogenetic analyses of *Salmonella* detected along the broiler production chain in Trinidad and Tobago." *Poultry Science* 102(2):102322.

Lakshmanan, N., T. Yamini, S. Ramakrishnan, R. Chandrasekar. (2022) "A Rare Case of Oesophageal Diverticulum with Unusual Foreign Bodies in a Dog." *Iran Journal of Veterinary Surgery* 2022; 17(1); Pages: 71-74.

Lakshmanan, N., R. Chandrasekhara-Iyer. (2022) "Coronal Rhytidectomy for Correction of Bilateral Superior Entropion in Dogs with Redundant Eyebrow Droop: A Review of Two Cases." *Iran J Vet Surg*. 2022; 17(1); Pages: 66-70.

Lakshmanan, N., N. Mootoo. (2002) "Urinary bladder retroflexion due to vaginal prolapse in a dog – a case report." *Indian Journal of Veterinary Surgery*. No. 852/2/ijvs/2022.

Lall, K.R., G. W. Garcia (2022) "Evaluating the Effects of Different Methods of Estrous Synchronization in Agouti (*Dasyprocta leporina*)." *Theriogenology Wild* 3:100045.

Lall, K. R., K. R. Jones, G. W. Garcia. (2022) "Reproductive Technologies Used in Female Neo-Tropical Hystricomorphic Rodents." *Animals* 12(5):618.

Mohamed, R., R. Charles, L. Ramjattan, A. Williams, M. Wilson, A. Phillip, A. Parisien, R. Suepaul (2023) "Morphology of the gastrointestinal tract of cascadura fish (*Hoplosternum littorale*) and its pathogenic fauna." *Iraqi Journal of Veterinary Sciences* 37(3): 603-609.



Mohamed, R., L. A. Benjamin, P. K. Sahu. (2022) "Online anatomy teaching during the COVID-19 pandemic: assessing the perceptions of undergraduate veterinary medical students." *Journal of Advanced Veterinary and Animal Research*. 30;9(3):453-462.

Mohamed, R. A., K. Georges, S. Rajh and R. B. Suepaul (2022). "A pilot study on the lung morphology of shelter dogs in relation to air pollution in Trinidad." *American Journal of Veterinary Research* 83(10).

Pargass, I., C. Wint, R. Suepaul, K. Frontera-Acevedo, B.A. Quorollo. (2023) "First reported case of leishmaniasis in a cat in Trinidad and Tobago." *Veterinary Parasitology: Regional Studies and Reports* 42:100896.

Persad A., G. Rajashekara, J.T. LeJeune. (2002) "Shiga toxin (stx) encoding genes in sheep and goats reared in Trinidad and Tobago." *Plos One*. 2022 Nov 15;17(11):e0277564.

Ramnanansingh, T., S. Singh, J. Johnson, C. Carrington and J. Addae. (2022) "Age-related changes in the control mechanisms for vasomotion in the microcirculation." *The FASEB Journal*, 36.: <https://doi.org/10.1096/fasebj.2022.36.S1.L7679>

Sahadeo, N.S.D., S. Nicholls, A. Moreira, F.R.R. O'Toole, V. Ramkissoon, C.A.L. Oura, K. Georges et al. (2023) "Implementation of genomic surveillance of SARS-CoV-2 in the Caribbean: Lessons learned for sustainability in resource-limited settings." *PLOS Global Public Health* 3(2): e0001455.

Sant C, Seunarine D, Holder N, Maharaj K, Vaughan M, Harrus S, Gutierrez R, Nachum-Biala Y, Baneth G, Charles R, Pow-Brown P, Georges K. (2022) "Tick-borne pathogens in neotropical animals in Trinidad, West Indies." *Parasites & Vectors* 15(1):1-9.

Suepaul, S., M. Stegger, F. Boyen, K. Georges, P. Butaye.(2023) "The Diversity and Zoonotic Potential of *Staphylococcus pseudintermedius* in Humans and Pet Dogs in Trinidad and Tobago." *Antibiotics* 12(8):1266.

Sundaram, V., S. Mohammed, B.N. Cockburn, M.R. Srinivasan, C.R. Venkata, J. Johnson, L. Gilkes, K.R Jones, N. Zyuzikov. (2023) "Effects of Intermediate Frequency (150 kHz) Electromagnetic Radiation on the Vital Organs of Female Sprague Dawley Rats." *Biology* 12(2):310.

Sundaram,V., S. Mohammed, N. Zyuzikov. (2022) "Effects of 150 kHz intermediate frequency electromagnetic radiation on fertility indicators in male rats." *Heliyon* 8(12):e12228.

## Books & Book Chapters

### SCHOOL OF MEDICINE

#### Department of Pre-Clinical Sciences

Nayak, B. S. (2023). Manipal Manual of Clinical Biochemistry, 5th edition, Jaypee Medical Publishers, New Delhi, India.

Nayak, B. S. (2023). Essentials of Biochemistry for Medical students, 4th edition, Jaypee Medical Publishers, New Delhi, India.

# PUBLICATIONS AND CONFERENCES

ONLINE ONLY

## Department of Para-Clinical Sciences

Umakanthan S, Bukelo M, Gajula S (2023) "COVID-19: Epidemiologic trends, public health challenges, and evidence-based control Interventions." Lausanne. Frontiers Media SA. Chapter 16, June doi: 10.3389/978-2-8325-2309-4

Umakanthan S, (2023) Hematopathology In *Manual for Immunohematology for Transfusion Residents*, published by Notion Press. Chapter 24, February .

## SCHOOL OF PHARMACY

Dahiya S, Dahiya R. (2023) An overview on nanocarriers for nasal delivery. In: *Nasal Drug Delivery – Formulations, Developments, Challenges, and Solutions*. Pathak YV, Yadav HKS, editors Cham, Switzerland: Springer; Mar. p. 141-168. Chapter 9. Available from: [https://link.springer.com/chapter/10.1007/978-3-031-23112-4\\_9](https://link.springer.com/chapter/10.1007/978-3-031-23112-4_9) [ISBN:978-3-031-23112-4]

Dahiya S, Dahiya R. (2022) Smart drug delivery systems and their clinical potential. In: *Smart Polymeric Nano-Constructs in Drug Delivery: Concept, Design, and Therapeutic Applications*. Vyas SP, Agrawal U, Sharma R, editors. 1st ed. London: Academic Press, Elsevier; Nov. p. 401-436. Chapter 13. Available from: <https://www.sciencedirect.com/science/article/pii/B9780323912488000076> [ISBN: 978-0-323-91248-8]

Dahiya S, Dahiya R. (2022) Potential of colloidal carriers for nanocosmeceutical applications. In: *Nanocosmeceuticals: Innovation, Application, and Safety*. Das MK, editor. 1st ed. London: Academic Press, Elsevier; Aug. p. 169-208. Chapter 6. Available from: <https://www.sciencedirect.com/science/article/pii/B9780323910774000028> [ISBN: 978-0-323-91077-4]

Dahiya R, Dubey S, Dahiya S. (2022) Current global regulations for nanocosmeceuticals. In: *Nanocosmeceuticals: Innovation, Application and Safety*. Das MK, editor. 1st ed. London: Academic Press, Elsevier; Aug. p. 483-510. Chapter 18. Available from: <https://www.sciencedirect.com/science/article/pii/B9780323910774000168> [ISBN: 978-0-323-91077-4]

## Conference Presentations

### SCHOOL OF MEDICINE

#### Department of Pre-Clinical Sciences

A. Ramjag, I. M. Claro, F. R. R. Moreira, S. Nicholls, G. Simmons, N. R. Faria, C. Carrington. (2023). "Viral metagenomics using the smart-9N approach to detect viruses in three Trinidadian cohorts."CADDE Genomic Epidemiology Workshop. Universidade de Sao Paulo Instituto de Medicina Tropical, Sao Paulo, Brazil, 12-17 March.

C. V. F. Carrington (2023). "Genomic surveillance in the Caribbean." CADDE Genomic Epidemiology Workshop. Universidade de Sao Paulo Instituto de Medicina Tropical, Sao Paulo, Brazil, 12-17 March

C. V. F. Carrington (2022). "SARS-CoV-2 genomic surveillance in the Caribbean: Lessons from the COVID-19 IMPACT project." Virus Genomics and Evolution Conference. Wellcome Genome Campus, Hinxton, UK, 9 – 11 November

S. D. B. Ramnarine, C. Oura, C. Carrington. (2023). "Research Proposal: Emerging and Emergent Arbovirus risk evaluation in Trinidadian Mosquito populations using Nanopore metavirome sequencing." CADDE Genomic Epidemiology Workshop. Universidade de Sao Paulo Instituto de Medicina Tropical, Sao Paulo, Brazil, 12-17 March.

T. Ramnanansingh, A. Lewis, S. Singh, F. Youssef, C. Carrington and J. Addae. (2022). "Prebiotic improves cutaneous microcirculation irrespective of caloric intake." Trinidad and Tobago National Health Research Conference, Port of Spain, Trinidad and Tobago, 25 November

### *Department of Para-Clinical Sciences*

M. Ivey and C. Ezeanya (2022) "Determinants of the Intentions of Health Care Workers towards the Provision of Family Planning Services to Patients Aged 18 Years and Older in Eastern Trinidad." National Health Research Conference, Hyatt Regency Hotel, Port of Spain, November 25<sup>th</sup>.

MA Ivey, J Edwards and R Narinesingh-Motie (2022) "Assessing the Potential for a Malaria Outbreak in Trinidad and Tobago due to Migrant Population Movement for the Period 2009-2019." National Health Research Conference, Hyatt Regency Hotel, Port of Spain, November 25<sup>th</sup>.

Khan R et al. (2022) "The effectiveness of Telemedicine on the management of Chronic Diseases at ERHA Primary Health Care Facilities during the COVID-19 pandemic." National Health Research Conference. Hyatt Regency Hotel, Port of Spain, November 25<sup>th</sup>.

### **SCHOOL OF NURSING**

E. Daniel, R. Trotman, G. Ramdeen-Mootoo, V. Victor, K. Lootawan (2023). "Ease of Use and Usefulness of a Virtual Gaming Simulation on "Mental Health Assessment during a Home Visit", among Guyanese Nursing Students: A Web-Based Survey." National Health Research Conference, Hyatt Trinidad & Tobago November

E. Daniel, P. Cummings & K. Lootawan. (2023). "Factors Influencing Job Satisfaction among Registered Nurses Working in Primary Care Setting: A Barbadian Perspective." National Health Research Conference, Hyatt Trinidad & Tobago November.

E. Daniel, K. Shepperd, G. Ramdeen-Mootoo, V. Victor, K. Lootawan (2023). "Workplace Violence against Nurses in the Polyclinics of Barbados: Mixed Method Design." Fourth Regional Mixed Methods Research Conference, St. Augustine, Trinidad. July.

E. Daniel, K. Shepperd, G. Ramdeen-Mootoo, V. Victor, K. Lootawan (2023). Disruptive Behavior: Workplace Violence against Nurses in a Regional Teaching Hospital, Trinidad. Fourth Regional Mixed Methods Research Conference, St. Augustine, Trinidad. July.

D. Corey and O.N. Ocho. (2022). "The psychosocial impact of covid-19 on Registered Nurses employed at the South West Regional Health Authority." Oral presentation at XVII Pan-American Nursing Research Colloquium, University of Miami, USA. November 9 - 11.

O.N. Ocho, G. Ramdeen-Mootoo, K. Khan, K. Nathaniel-DeCaries, D. Mc Fee, A. James-Euin, L. Caesar-Greasley, W. Arneaud, B. Baer and C. Allen. (2022). "GBV capacity-building through curriculum adaptation in Trinidad and Tobago." Oral presentation at Sexual Violence Research Initiative Forum 2022, Cancun, Mexico, September 19, 2022 to September 23.

O.N. Ocho. (2022). Speaker on 'Teaching the child with NCDs (Juvenile Diabetes, Asthma, Medical seizures and Sickle Cell disease.' TTUTA's Second Annual Virtual Special Education Symposium, July 11.

# PUBLICATIONS AND CONFERENCES

## ONLINE ONLY

O.N. Ocho. (2022). "Plenary speaker on 'Wholistic Health: A Prerequisite for Fostering High Impact Leadership in a Fast-Paced World.'" Graduate Education and Leadership Virtual Leadership Conference, North Caribbean University, July 6.

O.N. Ocho, E. Wheeler, G. Tomblin Murphy and J. Rigby (2022). "Core competencies and challenges among Nurses transitioning into positions of leadership - A Caribbean perspective." Oral presentation at Global Network for Nursing and Midwifery WHO Collaborating centres (GNWHONM) 14th Biennial Conference, University of Botswana, June 14, and 15.

## SCHOOL OF PHARMACY

Beharry B, Bharath A, Bujhawan A, Bissoon A, Blackman D, Boodram A, Buchoon A, Campbell K, Dahiya R. 'A Systematic Review on the Global Use of Herbal Medications during the COVID-19 Pandemic', 2022 National Health Research Conference on "Pandemics, NCDs and the Future: When Emerging Infections and NCDs Meet" at Hyatt Residency, Port of Spain, Trinidad & Tobago, 25th Nov 2022, Poster No. - 9, Proceedings published in supplement of Caribbean Medical Journal.

## SCHOOL OF VETERINARY MEDICINE

A. Persad, S. Nyack, J. Calliste, S. Rajkumar, C. Ali, S. Suepaul S, (2022). "Knowledge, attitude, and perception of antimicrobial resistance amongst pig farmers in Trinidad and Tobago." National Health Research Conference, Port of Spain, Trinidad and Tobago, November.

A. Persad, A. Stankus, A. Nanan, L. Benjamin, K. Georges, R. Clarke, (2022). Microbial safety of aquaponic produce grown in Trinidad and Tobago. National Health Research Conference, Port of Spain, Trinidad and Tobago, November.

A. Persad, A. Moore A, J.S. Dulan, G. Soogrim G, X. Luke, A. Dhaniram, S. Suepaul, (2022). "Changes in the consumer food safety practices of veterinary students and staff due to the onset of the COVID-19 pandemic in Trinidad and Tobago." National Health Research Conference, Port of Spain, Trinidad and Tobago, November.

C. Oura (2023). "Developing Professional Networks of Caribbean Leaders / Change Agents." One Health in South America (SANO) conference (Online), February.

A. Persad (2023). "Reducing Piglet neonatal mortality." Livestock and Livestock Products Board, "Improving Livestock production in Trinidad and Tobago. Nalis Library, Port of Spain Trinidad, June

C. Oura (2023). "Climate Change & Health Equity: Reducing Risk & Promoting Resilience." Presentation and Panel. Discussion: One Health: A multidisciplinary approach to optimal health for all. Global Health Summer Institute Conference (online). Michigan, USA, May 2023.

C. Oura (2022). "One Health in Action in the Caribbean." Infectious Diseases and One Health Conference, Tours, France, September.

C. Oura (2023). "Neglected Infectious (Tropical) Diseases and One Health." A Caribbean Perspective PAHO / UWI Workshop - Neglected Infectious Diseases and One Health: A Caribbean Perspective Port of Spain, Trinidad and Tobago, June.

C. Oura (2023). "One Health: What is it and why is it so relevant to today's health challenges?" French Red Cross Conference with the theme: What are the ideal responses/approaches to infectious disease risks? (Online) 28 March.

C. Oura (2022). "Training Caribbean Health Professionals to tackle the climate crisis." CARPHA pre-conference workshop on Climate and Health in the Caribbean (online). September.

K. Georges C. Sant., D. Seunarine, N. Holder, K. Maharaj, M. Vaughan, S. Harrus, R. Gutierrez, Y. Nachum-Biala, G. Baneth, R. A. Charles, P. Pow-Brown, K. Georges (2022). "Tick Borne pathogens in neotropical animals in Trinidad, West Indies." One Health and Implementation Research Vector Borne Diseases and Pathogens in Tropics and Subtropics Areas: Knowledge and Gaps, Virtual Via Zoom September.

K. Georges (2022). "Initiatives by the Faculty of Medical Sciences." World Food Day leave No One Behind - Caribbean Reflections on World Food Day 2022 Agriculture Health and Social Vulnerability. Virtual via Zoom, November.

K. Georges (2022). "The Caribbean region's experience with risk communication on animal Health." Webinars on African Swine Fever: Preparing for African Swine Fever risk Communication Part 2. Virtual via Zoom, November.

J Pradel., P. Alfonso, P. Cadogan, L. Corsaut, K. Georges, V. Gongora, K. Hackshaw, K.L. Johnson, G. Manuel, G. Peters, M.I. Percedo Abreu, C. Philips, C. Sant, M. Trotman, the Caribbean Disaster Response Group and P.D. Bedford (2023). "Regional response to a natural disaster of volcanic origin - the experience of the Caribbean (Oral presentation)." Global Conference on Emergency Management. France, April.

K. Georges (2023). "Prevention and control of rabies in animals." Neglected Infections Diseases and One Health: A Caribbean Perspective. Rabies - The Road to Zero, Trinidad Hilton and Conference Center, Port of Spain, Trinidad, June.

K. Georges (2023). "Pandemics on the horizon- Protecting your herd." Livestock and Livestock Products Board, "Improving Livestock production in Trinidad and Tobago. Nalis Library, Port of Spain Trinidad, June.

K Jones (2022). "Nutritive value of agouti (*Dasyprocta leporina*) meat in comparison to selected domesticated animals." National Health Conference, Port of Spain, Trinidad and Tobago.

M. Driscoll (2023). "Anthelmintic resistance-What is it and how do we reduce it." Livestock and Livestock Products Board, Improving Livestock production in Trinidad and Tobago. Nalis Library, Port of Spain Trinidad, June.

M. Morris, I. Løken, V. Akulava, A. Kohler, V. Shapaval, A. Martin. (2022). Novel methods to analyse mucus. Use of FTIR-spectroscopy to examine bovine cervical vaginal mucus. World Buiatrics Congress. Madrid, Spain, September.

N. Lakshmanan (2022). "Gastrointestinal surgery in dogs." National Veterinary Foundation, New Delhi, India, December.

R. Oakley, A. Nanan, R. Pierre, M. Driscoll, M. Morris, A. Persad (2022). "A Retrospective Study of Periparturient Diseases in Small Ruminants presenting at the Large Animal Hospital." School of Veterinary Medicine, The University of the West Indies. National Health Research Conference, Port of Spain, Trinidad and Tobago, November.

# PUBLICATIONS AND CONFERENCES

ONLINE ONLY

## Conference Papers & Proceedings

### SCHOOL OF PHARMACY

Dahiya R. (2022) "Natural Cyclopolypeptides: Synthetic and Pharmacological Aspects," Indo-West Indies International Conference on "Global Aspects of Drug Discovery, Drug Design and Pharmaceutical Technology" (VJ's College of Pharmacy, Rajahmundry, East Godavari, Andhra Pradesh, India), 17th Aug.

Dahiya R. (2022) "Cyclopeptides: Molecules of Synthetic and Pharmacological Interest," Indo-Caribbean International Conference on "Recent Updates and Global Challenges in Pharmaceutical Sciences" (Unity College of Pharmacy, Raigir, Bhongir, Yadadri Bhuvanagiri, Telangana, India), 16th Aug.

Dahiya R. (2022) "Bioactive Cyclooligopeptides of Plant & Marine Origin: Synthesis & Bioscreening," Indo-Caribbean International Conference on "Global Challenges and Current Scenario of Pharmaceutical Sciences" (School of Pharmaceutical Sciences, Vels Institute of Science Technology and Advanced Studies (VISTAS), Pallavaram, Chennai, Tamil Nadu, India), 13th Aug.

Dahiya R. (2022) "Natural Cyclic Peptides: Potent Biomolecules with Pharmacological Interest," Indo-West Indies International Conference on "Advances in Drug Design and Current Scenario of Pharmaceutical Sciences" (Narasaraopeta Institute of Pharmaceutical Sciences, Yellamanda, Narasaraopet, Guntur, Andhra Pradesh, India), 12th Aug.

Dahiya R. (2022) "An Update on Bioactive Cyclopeptides Synthesis and Their Biopotential," Indo-Caribbean International Conference on "Global Advances and Issues in Pharmaceutical Education and Research" (Vijaya Institute of Pharmaceutical Sciences for Women, Enikepadu Vijayawada, Krishna, Andhra Pradesh), 10th-11th Aug.

Graham N, Dahiya R. (2023) "A boy with multiple trauma and bilateral basal ganglia hemorrhage due to coronavirus disease 2019: A case report," 26th Indo-US International Conference on "Pharmaceutical Sciences and Technology : Past, Present & Future Aspects" at Sharda School of Pharmacy, Pethapur, Gandhinagar, Gujarat, India, 6th Apr , OP-II (Virtual).

Agard N, Dahiya R. (2023) "Type 1 diabetes," 26th Indo-US International Conference on "Pharmaceutical Sciences and Technology : Past, Present & Future Aspects" at Sharda School of Pharmacy, Pethapur, Gandhinagar, Gujarat, India, 6th Apr, OP-III (Virtual).

Mayers W, Dahiya R. (2023) "Intravenous vitamin C in the treatment of cancer," 26th Indo-US International Conference on "Pharmaceutical Sciences and Technology: Past, Present & Future Aspects" at Sharda School of Pharmacy, Pethapur, Gandhinagar, Gujarat, India, 6th Apr, OP-IV (Virtual).

Joseph B, Dahiya R. (2023) "Antibiotic resistance and stewardship," 26th Indo-US International Conference on "Pharmaceutical Sciences and Technology : Past, Present & Future Aspects" at Sharda School of Pharmacy, Pethapur, Gandhinagar, Gujarat, India, 6th Apr, OP-I (Virtual).

Mohammed S, Salandy S, Mourya R, Dahiya R. (2023) "Role of the gut microbiota in traditional Chinese medicine against Covid-19," 10th Indo-Caribbean International Conference on "Global Trends in Pharmacy Practice and Pharmaceutical Sciences" at Shree Swaminarayan Sanskar Pharmacy College, Zundal, Gandhinagar, Gujarat, India, 17th Jan, OP-02/I-ii, p. 2 (Virtual).

Ali J, Ablack A, Lakshmi BVS, Dahiya R. (2023) "Traditional Chinese medicine in treatment of Covid-19 and viral disease: Efficacies and clinical evidence," 10th Indo-Caribbean International Conference on "Global Trends in Pharmacy Practice and Pharmaceutical Sciences" at Shree Swaminarayan Sanskar Pharmacy College, Zundal, Gandhinagar, Gujarat, India, 17th Jan, OP-03/I-iii, p. 3 (Virtual).

Ali K, Brooks F, Sundar S, Dahiya R. 2023 "Chinese herbal prescriptions for covid-19 management: special reference to Taiwan chingguan yihau (NRICM101)," 10th Indo-Caribbean International Conference on "Global Trends in Pharmacy Practice and Pharmaceutical Sciences" at Shree Swaminarayan Sanskar Pharmacy College, Zundal, Gandhinagar, Gujarat, India, 17th Jan, OP-04/I-iv, p. 4 (Virtual).

Malhotra L, Lynch J, Darwin R, Dahiya R. (2023) "Review on the potential action mechanisms of Chinese medicines in treating coronavirus disease 2019 (Covid-19)," 10th Indo-Caribbean International Conference on "Global Trends in Pharmacy Practice and Pharmaceutical Sciences" at Shree Swaminarayan Sanskar Pharmacy College, Zundal, Gandhinagar, Gujarat, India, 17th Jan, OP-05/I-v, p. 5 (Virtual).

Buchoon A, Bujhawan A, Boodram A, Bharath A, Bissoon A, Beharry B, Blackman D, Campbell K, Dahiya R. (2022) "Effectiveness of herbal drugs in the management of COVID-19," 17th Indo-Malaysian International Conference on "Recent Scenario of Pharmacy and Pharmacological Sciences" at SBSPM's B. Pharmacy College, Ambajogai, Beed, Maharashtra, India, 23rd Sep, Oral # 001 (Virtual).

Seon Q, Maharaj S, Dookeeram D, Ali K, Seemungal T. (2023) "Leveraging research, community and collaboration towards robust COVID-19 mental health response in the Caribbean." The Lancet Regional Health–Americas. Mar 1;19.

## Other Publications

### SCHOOL OF MEDICINE

#### *Department of Pre-Clinical Sciences*

#### **TECHNICAL REPORTS**

**C. V. F. Carrington** Weekly Cumulative Reports (n = 52) to Trinidad and Tobago Ministry of Health on Screening for SARS-CoV-2 Variants of Concern

### SCHOOL OF NURSING

#### **CONTRIBUTIONS TO TECHNICAL PAPERS/REPORTS**

Manley-Kucey, M., Baxter, JB, Blanchette, V., Alexis, C., Bodkyn, C., Browne-Farmer, C., Craig J, de Young, S., Knight-Madden, J., Nolasco, L., Ocho, O.N, Reece-Mills, M., Sin Quee, C., Smith, B., Thame, M., Allen, U. (2023). Reflections on the SickKids-Caribbean Initiative: Administration, Management, and Funding. Toronto: Hospital for Sick Children.

Reece-Mills, M., Baxter, JB., Alexis, C., Allen, U., Blanchette, V., Beeput, S., Bodkyn, C., Browne-Farmer, C., de Young, S., Dindial, K., Flemming-Carroll, B., Knight-Madden, J., Ocho, O.N., Orrigio, K., Mclean-Salmon, S., Smith, B., Thame, M., Wentzel, K., Whitlock, J., Sin Quee, C. (2023). Reflections on the SickKids-Caribbean Initiative: Education and Training. Toronto: Hospital for Sick Children.

# PUBLICATIONS AND CONFERENCES

ONLINE ONLY

Bodkyn, C., Baxter, J.B., Allen, U., Blanchette, V., Fleming-Carroll, B., Knight-Madden, J., Reece-Mills, M., Ocho, O.N., Sin Quee, C., Smith, B., Thame, M., Whitlock, J., Alexis, C. (2023). Reflections on the SickKids-Caribbean Initiative: Advocacy and External Engagement. Toronto: Hospital for Sick Children.

## FACULTY OF SCIENCE & TECHNOLOGY

### Journal Publications

#### *Department of Chemistry*

Augustine, D.A.; Bent, G-A. (2022) "Acrylamide, a toxic Maillard by-product and its inhibition by sulfur-containing compounds: A mini review." *Front. Food. Sci. Technol. Sec. Food Characterization.*, **2**. <https://doi.org/10.3389/frfst.2022.1072675>.

Clarke, K., R. Porter, P. Facey, C. Thoms-Rodriguez. (2023) "Chemical composition and biological activities of Cannabis sativa essential oils as the plant matures." *Flavour Fragr. J.* **38**:144-151.

Jackson, D. T., Nelson, P. N., Weston, K., Taylor, R. A., (2023) "Plasticizer-free Hydrazonic Dibenzo-18-crown-6 derived lead ion sensing electrodes." *Sensing and Bio-Sensing Research* **41** 100570.

Jackson, D. T., Nelson, P. N., Weston, K., Taylor, R. A., (2023) "Preparation and Properties of Three Plasticiser-Free Novel Dibenzo-18-Crown-6 Aldimine-Derived Lead(II) Ion-Selective Electrodes." *Inorganics*, **11**, 275.

Mohammed, C.; Lalgee, L.J.; Kistow, M.; Jalsa, N.K. ; Ward, K. (2022) "On the Binding Affinity and Thermodynamics of Sodium Alginate-Heavy Metal Ion Interactions for Efficient Adsorption." *Carbohydrate Polymer Technologies and Applications*, 100203. DOI: [doi.org/10.1016/j.carpta.2022.100203](https://doi.org/10.1016/j.carpta.2022.100203).



Ming, S.-A., Taylor, R.A., McNaughter, P.D., Lewis, D.J., Leontiadou, M.A., O'Brien, P., (2022) "Tunable structural and optical properties of AgxCu<sub>1-x</sub>YnS<sub>2</sub> colloidal quantum dots." *New Journal of Chemistry*, 46, 18899-18910.

Powder-George, Y.L.\*, Deonarine, R. (2023) "Antidiabetic potential of selected ethnomedicines utilized for the management of diabetes mellitus in Trinidad and Tobago: A review." *Current Diabetes Reviews*, 19, 92-99.

### *Department of Computing and Information Technology*

Coy, A., P. S. Mohammed, A. Hosein, P. Skerit, A. Mohammed, Y. Lewis-Fokum, (2023) Increasing the Integration of Computer-Assisted Language Learning in Caribbean Schools: Lessons from the Use of an Intelligent Spelling Tutor During COVID-19: *Journal of Eastern Caribbean Studies* 46 (1-2)

Greasley J., P. Hosein, (2023) Exploring supervised machine learning for multi-phase identification and quantification from powder X-ray diffraction spectra: *Journal of Materials Science* (Springer)

Hosein, P., J. Greasley, (2023) An Optimization-Based Supervised Learning Algorithm for PXRD Phase Fraction Estimation: *Materials Today Communications* (Elsevier Journal), June,

Hosein, P., (2023) A data science approach to risk assessment for automobile insurance policies: *International Journal of Data Science and Analytics* (Springer)

Khan, K., (2023) A Comprehensive Taxonomy of Immersive Holographic Video Streaming: Technologies, Applications, and Challenges: *International Journal of Innovative Science and Research Technology*, 8(07): 2576-2586.

Khan, K., (2023).A Video Streaming Language Model Framework (VSLMF): *International Journal of Innovative Science and Research Technology*, 8(07): 2576-2586

Khan, K., W. Goodridge, (2023) A Comprehensive Taxonomy for AIoT Video Streaming Systems: Components, Connectivity, and Applications: *International Journal of Multidisciplinary Research and Publications* (IJMRAP), 6(02):133-145

Khan, K., (2023) A Systemic Review on Collaborative Swarm Intelligence for Dynamic Adaptive Streaming Over HTTP (CSI-DASH): *International Journal of Innovative Science and Research Technology*, 8(06):708-720

Khan, K., (2023) A Taxonomy for Deep Learning in Dynamic Adaptive Video Streaming Over HTTP: *International Journal of Multidisciplinary Research and Analysis*, 6(05):2324-2332

Khan, K., (2023) A Taxonomy for the Use of Quantum Computing in Drone Video Streaming Technology, *International Journal of Innovative Science and Research Technology*, 8(06): 2670-2681

Khan, K., (2023) A Comprehensive Multi-Taxonomy of Wireless Communication Protocols for Adaptive Video Streaming in Drones: *International Journal of Innovative Science and Research Technology*, 8(06): 1404-1412

# PUBLICATIONS AND CONFERENCES

## ONLINE ONLY

Khan, K., (2022) Machine Learning Methods with Link-Level Features: International Journal for Multidisciplinary Research, 4(06):1-09, IJFMR

Khan, K., (2022) Machine Learning Methods with Node-Level Features: International Journal for Multidisciplinary Research, 4(06):1-12, IJFMR

Khan, K., (2022) Wireless Sensor Network Applications. International Journal for Multidisciplinary Research, 4(06):1-13, IJFMR

Khan, K., (2022) Learning with Graph Neural Networks. International Journal of Multidisciplinary Research and Publications (IJMRAP), 5(07):61-69, IJMRAP

Khan, K., W. Goodridge, (2022) IoT-supported Cloud-based Mobile Augmented Reality. International Journal of Multidisciplinary Research and Publications (IJMRAP), 5(07):4-9, IJMRAP

Sekhon, R., P. Hosein, S. Pack, (2023) Pricing eSIM Services: Ecosystem, Challenges, and Opportunities: IEEE Communications Magazine

### *Department of Life Sciences*

Ali, O., Ramsubhag, A., Jayaraj, J\*. (2022). Phytostimulatory effects of extracts of certain Caribbean seaweeds on tomato and sweet pepper plants. *Phytoparasitica*. DOI: 10.1007/s10811-015-0608-3 (Springer).

Ali, O., Ramsubhag, A., Benn Jr, D., Ramnarine, S., Jayaraj, J\*. (2022). Transcriptomic changes induced by applications of

a commercial extract of *Ascophyllum nodosum* on tomato plants. *Scientific Reports*, DOI: 10.1038/s41598-022-11263-z. (Springer).

Ali, O., Ramsubhag, A., Jayaraj, J\*. (2022). Transcriptome-wide modulation by *Sargassum vulgare* and *Acanthophora spicifera* extracts results in a prime-triggered plant signaling cascade in tomato and sweet pepper. *AoB PLANTS*. DOI: 10.1093/aobpla/plac046. (Oxford)

Ali, O., Ramsubhag, A., Farrell, A.D., Jayaraj, J\*. (2022). Foliar application of seaweed extracts influence the phytomicrobiome dynamics in tomato and sweet pepper plants. *Journal of Applied Phycology*. DOI: 10.1007/s10811-022-02823-x. (Springer).

Baker, E., Kerr, R. B., Deryng, D., Farrell, A., Gurney-Smith, H., & Thornton, P. (2023). Mixed farming systems: potentials and barriers for climate change adaptation in food systems. *Current Opinion in Environmental Sustainability*, 62, 101270.

Bezner Kerr, R., Hasegawa, T., Lasco, R., Bhatt, I., Deryng, D., Farrell, A., Gurney-Smith, H., Ju, H., Lluch-Cota, S., Meza, F. and Nelson, G., (2022). Food, fibre, and other ecosystem products. In *Climate change 2022: impacts, adaptation and vulnerability*. IPCC.

Cascante, A. & J.F. Morales. (2023). A new species of *Werauhia* (Bromeliaceae: Tillandsioideae) from montane cloud forests of Costa Rica. *Novon* 31: 108-113.

Cock, M. J., Kelly, M., Deacon, A. E., & Gibson, M. (2022). New records and identifications of butterflies and moths (Lepidoptera) from Tobago, West Indies. *Living World, Journal of the Trinidad and Tobago Field Naturalists' Club*. 2022: 12-29

Cockburn, B. N., and Georgina Chami. (2022) Responding to the COVID-19: Technology and Tertiary Education – In: Managing New Security Threats in the Caribbean, Georgina Chami, Jerome Teelucksingh and Marlon Anatol, editors. Palgrave Macmillan, pp 127-152.

M. Chin, V. Siva, T.P. Maharaj, J.F. Morales & Y. Ting. (2023). iNaturalist observations document the biology of *Napata terminalis* (Walker) (Lepidoptera, Erebidae, Arctiinae, Arctiini, Ctenuchina) in Trinidad, West Indies. Living World: Journal of the Trinidad and Tobago Field Naturalists' Club 2023.

Deacon, A. E., Fraser, D. F., & Farrell, A. D. (2023). Resistance from a resident heterospecific affects establishment success of a globally invasive freshwater fish. *Freshwater Biology*, 68(3), 425-436.

Deacon, A. E., Fraser, D. F., & Farrell, A. D. (2023). Resistance from a resident heterospecific affects establishment success of a globally invasive freshwater fish. *Freshwater Biology*, 68(3), 425-436.

Evelyn, S., W. Elibox, P. Umaharan, K. De Abreu, and A. Farrell. (2023). Genotypic differences in vase life of *Anthurium andraeanum* (Hort.) cut-flowers are associated with differences in spathe chlorophyll content. *Postharvest Biology and Technology* 197: 112220 (Impact Factor 6.751).

Evelyn, S., Elibox, W., Umaharan, P., De Abreu, K., & Farrell, A. D. (2023). Genotypic differences in vase life of *Anthurium andraeanum* (Hort.) cut-flowers are associated with differences in spathe chlorophyll content. *Postharvest Biology and Technology*, 197, 112220.

Farrell, A. D., Deryng, D., & Neufeldt, H. (2023). Modelling adaptation and transformative adaptation in cropping systems: recent advances and future directions. *Current Opinion in Environmental Sustainability*, 61, 101265.

Jones, N.A., Cortese, D., Munson, A., Spence-Jones, H.C., Storm, Z., Killen, S.S., Bethel, R., Deacon, A.E., Webster, M.M. and Závorka, L., (2023). Maze design: size and number of choices impact fish performance in cognitive assays. *Journal of Fish Biology*.

Jessop, A., Deacon, A., & Barbosa, M. (2023). The effect of phenotypic heterogeneity on behaviours linked to invasive success. *Ethology*, 129(4-5), 187-199.

Khan, K.; Assiu, R.; Tripathi, V.; Mohammed, A.; Ali, A.; Mohess, A.; Mahabir, A.; Agard, J. (2023). Heat-Related Climate Change Impacts on a Small Island Developing State (SIDS): A Case Study of Trinidad, W.I. In Book *The Impact of Climate Change on Vulnerable Populations: Social Responses to a Changing Environment*. Edited by; Joseph, D.D. and Doon, R.A.: MDPI, 185-210

Meza, F., Darbyshire, R., Farrell, A., Lakso, A., Lawson, J., Meinke, H., ... & Stockle, C. (2023). Assessing temperature-based adaptation limits to climate change of temperate perennial fruit crops. *Global Change Biology*, 29(9), 2557-2571.

Morales, J.F., Endress, M., Morais, I. L. de. & Rodrigues, P. R. (2023). A new species of *Mandevilla* (Apocynaceae) from limestone outcrops in Central Brazil with a short note on the occurrence of geophytes in rauwolfioids and apocynoids. *Acta Botanica Brasiliica* 37: e20230123

# PUBLICATIONS AND CONFERENCES

## ONLINE ONLY

Morales, J.F. (2023). Second-step lectotypifications in *Meliosma* (Sabiaceae). *Anales del Jardín Botánico de Madrid* 80: e139.

Mphande, W., Farrell, A. D., & Kettlewell, P. S. (2023). Commercial uses of antitranspirants in crop production: A review. *Outlook on Agriculture*, 52(1), 3-10.

Pustam, A., Jayaraj, J., Ramsubhag, A. (2023). Comparative genomics and virulome analysis reveal unique features associated with clinical strains of *Klebsiella pneumoniae* and *Klebsiella quasipneumoniae* from Trinidad, West Indies. *PLoS One*. 2023 Jul 10;18(7):e0283583. doi: 10.1371/journal.pone.0283583. eCollection 2023

Pustam, A., Jayaraj, J., Ramsubhag, A. (2022). Characterization of Beta-Lactam Resistance Genes and Virulence Factors Associated with Multidrug-Resistant *Klebsiella pneumoniae* Isolated from Patients at Major Hospitals in Trinidad, West Indies. *Current Microbiology*, DOI: 10.1007/s00284-022-02972-9. (Springer).

Ramnarine, S.D.J., Jayaraj, J., Ramsubhag, A. (2023). copLAB gene prevalence and diversity among Trinidadian *Xanthomonas* spp. black-rot lesion isolates with variable copper resistance profiles. *PeerJ* 11: e15657 <https://doi.org/10.7717/peerj.15657>

Sahadeo, N., et al. (2023). Implementation of Genomic Surveillance of SARS-CoV-2 in the Caribbean: Lessons learned for sustainability in resource-limited settings. *PLOS Global Public Health*. 3(9): e0002393. <https://doi.org/10.1371/journal.pgph.0002393>.

Sahadeo, N. S., Nicholls, S., Moreira, F. R., O'Toole, Á., Ramkissoon, V., Whittaker, C., ... & Carrington, C. V. (2022). Implementation of Genomic Surveillance of SARS-CoV-2 in the Caribbean: Lessons Learned for Sustainability in Resource-Limited Settings. *SSRN Electronic Journal*, DOI: 10.2139/ssrn.4184797.

Sanderson, F.J., P.F. Donald, A. Schofield, P. Dauda, D. Bannah, A. Senesie, M.S. Konneh, T.W. Swinfield, M.F. Hulme (2022). Forest-dependent bird communities of West African cocoa agroforests are influenced by landscape context and local habitat management. *Agriculture, Ecosystems and Environment*, 328, 107848.

Singh, D., Rostant, L., Mohammed, A., Jairam, A., Sahatoo, J., Ali khan, R., Mohammed, F., (2023). Sublethal levels of organophosphate insecticides alter behaviour in the juveniles of the Neotropical crab, *Poppiana dentata* (Randall 1840). *Ethology Ecology & Evolution*., 35 (2). 240-268

Spiers, J. A., Oatham, M. P., Rostant, L. V., & Farrell, A. D. (2023). Determining the ecophysiological limits of a narrow niche tropical conifer tree (*Podocarpus trinitensis*). *Tree Physiology*, 43(5), 781-793.

Ramnarine, SDBJ., Jayaraj, J., Ramsubhag, A. (2022). Comparative genomics of the black rot pathogen *Xanthomonas campestris* pv. *campestris* and non-pathogenic co-inhabitant *Xanthomonas melonis* from Trinidad reveal unique pathogenicity determinants and secretion system profiles. *Peer J*. 9:e12632 <https://doi.org/10.7717/peerj.12632>.

Morales, J.F.(2022). Two new remarkable *Dendropanax* (Araliaceae) from Costa Rica. *Darwiniana, nueva serie* 10: 417-428.

Morales, J.F. (2022). Miscellaneous typifications and new synonymy towards a revision of *Mandevilla* (Apocynaceae). *Novon* 20: 128-137.

Jost, L., Mario Humberto Yanez-Muñoz, Jorge Brito M., Carolina Reyes-Puig, Juan Pablo Reyes-Puig, Juan M. Guayasamin, Santiago R. Ron, Catalina Quintana, Gabriel Iturralde, Luis Baquero, Marco Monteros, Alina Freire-Fierro, Diana Fernandez, Glenda Mendieta-Lieva, J. F. Morales, Adam P. Karremans, J. Antonio Vázquez-García, Gerardo A. Salazar, Eric Hagsater, Rodolfo Solano, Germán Carnevali Fernández-Concha & Marcelo Arana. (2023). Eponymous scientific names are important tools for conservation and research. *Nature Ecology & Evolution* 7: 1164-1165.

Wakatsuki, H., Ju, H., Nelson, G. C., Farrell, A. D., Deryng, D., Meza, F., & Hasegawa, T. (2023). Research trends and gaps in climate change impacts and adaptation potentials in major crops. *Current Opinion in Environmental Sustainability*, 60, 101249.

Zavantin, D., J. Freitas, J.F. Morales, M. Pauli, M.C. Rodrigues, & E.J. de Lirio. (2023). Nuevos registros y comentarios taxonómicos en Acanthaceae, Apocynaceae, Aristolochiaceae, Asteraceae y Monimiaceae para el Bosque Atlántico de Brasil. *Revista Mexicana de Biodiversidad* 94: e945088.

### *Department of Mathematics and Statistics*

Forde, I., V. Tripathi. (2022) Determinants of neonatal, post-neonatal and child mortality in Afghanistan using frailty models. *Pediatric Research* 91: 991–1000: 20 April, 2022: DOI: <https://doi.org/10.1038/s41390-021-01527-1> [Impact Factor : 3.953]

Forde, I., V. Tripathi. (2022) An analysis of determinants of neonatal, post-neonatal and child mortality in Haiti including breastfeeding as a time-dependent variable. *Journal of Pediatrics and Child Health*, 02 August 2022; DOI: 10.1111/jpc.16142 [Impact Factor : 1.929]

Gunakala, S. R., V.M. Job\*, P.V.S.N. Murthy, S. Sakhamuri. (2023) "Influence of Alternating Magnetic Field on Non-Newtonian Blood Perfusion and Transport of Nanoparticles in Tissues with Embedded Blood Vessel during Hyperthermia." *Ain Shams Engineering Journal* 14 (1): 101831. (Impact Factor: 6.0. CiteScore: 8.0. No. of Citations: 5. Publication Date: 23/02/01. <https://doi.org/10.1016/j.asej.2022.101831> )

Gunakala, S. R., V. Job, M. Alexander. (2022) "MHD Slip Flow and Heat Transfer with Ohmic Heating between a Rotating Solid Disk and Stationary Permeable Disk". *Engineering Innovations*, ISSN: 2813-1002, Vol. 3, pp 1-12 Publication Date: 2022/10/01 doi:10.4028/p-d6t7o5, <https://www.scientific.net/EI.3.1.pdf>, Published by Trans Tech Publications Ltd, Switzerland.

Gunakala, S. R. \*, V. M. Job, P. Nagarani, P. Sreenivasulu and J. N. Balkissoon. (2022) "Numerical Study of Unsteady MHD Poiseuille Flow with Temperature-Dependent Viscosity through a Porous Channel under an Oscillating Pressure Gradient". *Palestine Journal of Mathematics* Vol. 11 (Special Issue III) (2022), 41–52 Palestine Polytechnic University-PPU 2022. Publication Date: 2022/09/02. (Palestine Journal of Mathematics ISSN: 2219-5688, Impact Factor: N/A, Impact Score: 0.42, CiteScore: 0.4, No. of Citations: 0).

# PUBLICATIONS AND CONFERENCES

ONLINE ONLY

Job, V. M., S.Rao. Gunakala\*, R.S.R. Gorla, O.D. Makinde, H.T. Basha. (2023) "Unsteady Convective Ferrohydrodynamic Flow of MnZnFe<sub>2</sub>O<sub>4</sub>/FeCrNbB - EG Hybrid Nanofluid in a Horizontal Channel with Porous Fins and Semi-Circular Heaters." *Journal of Magnetism and Magnetic Materials* 571: 170584. Publication Date: 2023/04/01 (North Holland (Elsevier) Publisher. Impact Factor: 2.7. CiteScore: 5.6. No. of Citations: 5. <https://doi.org/10.1016/j.jmmm.2023.170584>)

Lee, O., W. Wing-Lok Chan, K. Vin Tan, V. Tripathi, H. Yuan, K. Wan Hang Chiu. (2023) The Role of Ga-68 DOTA-SSA PET/CT in the Management and Prediction of Peptide Receptor Radionuclide Therapy Response for Patients with Neuroendocrine Tumours: A Systematic Review and Meta-Analysis, *Clinical Nuclear Medicine*; 01 September 2022 doi:10.1097/RLU.0000000000004235 [Impact Factor: 10.782]

Pal, R.S., L.P. Selby, R.B. Sah, T. Pal, V. Tripathi et al. (2023) Assessing the Sleep and Psychological Problems due to the COVID-19 Pandemic among Healthcare Workers of Employees State Insurance Corporation (ESIC). *Minerva Psychiatry* 10 May, 2023; 64(2): 00-00 DOI: 10.23736/s2724-6612.22.02386-7.

Rajballie, A., V. Tripathi, A. Chinchamee. (2022) Water consumption forecasting models – a case study in Trinidad (Trinidad and Tobago), *Water Supply* 22(5): 5434 -5447, 01 May, 2022: doi: 10.2166/ws.2022.147. [Impact Factor – 2021: 1.768]

Sankar, A., S. R. Gunakala\*, D. M. G. Comissiong. (2022) "Finite Element Analysis of Oxygen Transfer from Blood in Permeable Microcirculation to Surrounding Tissue in the Presence of a Magnetic Field". *Palestine Journal of Mathematics* Vol. 11 (Special Issue III) (2022), 25–40. Publication Date: 2022/09/02 Palestine Polytechnic University-PPU 2022. (Palestine Journal of Mathematics ISSN: 2219-5688, Impact Factor: N/A, Impact Score: 0.42, CiteScore: 0.4, No. of Citations: 0)

Sookoo, M. B., S. R. Gunakala\*. (2022) "Fixed Point Theorem for Multivalued Quasi-Contraction Maps in an M-Menger Space". *Palestine Journal of Mathematics* Vol. 11 (Special Issue III) (2022), 113–119 Palestine Polytechnic University-PPU 2022. Publication Date: 2022/09/02. (Palestine Journal of Mathematics ISSN: 2219-5688, Impact Factor: N/A, Impact Score: 0.42, CiteScore: 0.4, No. of Citations: 0).

Stewart, A., C. Seepersad, A. Hosein, V. Tripathi, A. Mohammed, A. Agard, A. Cashman, D. Chadee, A. Ramsubhag. (2022) Water Poverty Indices of three rural communities in the southern Caribbean, *Water Supply*, 22(3): 3158-3177, 01 March, 2022: doi:10.2166/ws.2021.409. [Impact Factor: 1.768]

Zolghadr, M., M. R. Rafiee, F. Esmailmanesh, A. Fathi, R. P. Tripathi, U. Rathnayake, S. R. Gunakala, H. Mohammad Azamathulla. (2022) "Computation of time of Concentration Based on Two-Dimensional Hydraulic Simulation". *Water* 2022, 14, 3155 (1-20 pages), ISSN: 2073-4441 Impact Factor: 3.4; CiteScore: 5.5 No. of Citations: 5, Publisher- MDPI, <https://doi.org/10.3390/w14193155>

### Department of Physics

Aubin, Tashanna, Andrea Joseph and Naveen Ratan. (2023) A quantitative analysis of radiation-induced contamination post-iodine-131 treatment for thyroid disease. *Caribbean Medical Journal*: 1-12

Abuenameh Aiyejina, Ethan Wyke, and Roger Andrews (2022) Near-Perfect Two-Photon State Transfer in a Trimer of Three-Level Systems. *Frontiers in Optics + Laser Science*. JW4B. 13

Beepat, Kevin Gurbani, Davinder Pal Sharma, Dinesh Pathak, and Aman Mahajan (2022) COMSOL multiphysics-based modeling approach to solar cell development. *International Journal of Modern Physics B*. 37(12): 2350114.

Beepat, Kevin, Sanjay Kumar, Ankush Sharma, Davinder Pal Sharma, Dinesh Pathak and Jean-Michel Nunzi. (2023) Perovskite materials for photovoltaics: a review. *Eur. Phys. J. Appl. Phys.* 98:43.

Beharry, R., A. Joseph, A. Gordon, A., and M. Voutchkov. (2023) Heavy Metals in Soils Associated with Fertilizers in Trinidad. *Journal of Geoscience and Environment Protection* 11: 232-248.

Beharry, S. L. and R. M. Clarke (2023) Estimations of future reservoir volumes under different climate scenarios for a tropical reservoir in a small Caribbean Island, Trinidad. *Environmental Monitoring and Assessment* 195, 590

Bhat, Mohd Asif, Pooja Rana, Feroz Ahmad Mir, Dinesh Pathak (2023) A brief study on exploration of Ni doped PrFeO<sub>3</sub> perovskite as multifunctional material. *Journal of Materials Science: Materials in Electronics*. 34(4): 269

Brar, Harpreet Kaur, Naveen Thakur, Sukhwinder Singh Brar, and Dinesh Pathak (2023) Synthesis and charactransporting layer (HTL) for Perovskite solar cell applications. *International Journal of Modern Physics B*. 2450063

Chadee, A. A., H. Martin, X. T. Chadee, S. Bahadoorsingh, F. Olutoge (2023) Root Cause of Cost Overrun Risks in Public Sector Social Housing Programs in SIDS: Fuzzy Synthetic Evaluation. *Journal of Construction Engineering and Management*. Volume 149, 11, 04023106-14

Dookie, Nalini., Xsitaaz T. Chadee, Ricardo M. Clarke (2022) A Prefeasibility Solar Photovoltaic Tool for Tropical Small Island Developing States. *Energies*. 15(22): 8337

Dookie, Nalini., Xsitaaz T. Chadee, Ricardo M. Clarke (2022) Evaluation of the Inter-Annual Variability of Site-Corrected Daily Global Horizontal Solar Irradiation in Trinidad and Tobago. *Journal of Arts Science and Technology* .15 (2): 180

Etefa, Habtamu Fekadu, Vinod Kumar, Francis Birhanu Dejene, Mulugeta Tesema Efa, and Leta Tesfaye Jule (2023) Modification of Flexible Electrodes for P-Type (Nickel Oxide) Dye-Sensitized Solar Cell Performance Based on the Cellulose Nanofiber Film. *ACS Omega*. 8(17): 15249-15258

Ethan Wyke, Abuenameh Aiyejina, and Roger Andrews (2022) Disorder-assisted Energy Transfer in the LH1-RC Complex with a Gaussian Laser Pulse. *Frontiers in Optics + Laser Science*. JW4B.12

Haque, S. et al (2022) Challenges of Astronomy outreach to persons with disabilities in the Caribbean. *Global Journal of Intellectual & Developmental Disabilities*. 10(4)

# PUBLICATIONS AND CONFERENCES

## ONLINE ONLY

Hunte, Sherisse Ornella, Catharine H Clark, Nikolay Zyuzikov, Andrew Nisbet (2022) Volumetric modulated arc therapy (VMAT): a review of clinical outcomes—what is the clinical evidence for the most effective implementation? *The British Journal of Radiology*. 95 (1136): 20201289

Khullar, Vikas, Harjit Pal Singh, Yini Miro, Divya Anand, Heba G Mohamed, Deepali Gupta, Navdeep Kumar, Nitin Goyal (2022). IoT Fog-Enabled Multi-Node Centralized Ecosystem for Real Time Screening and Monitoring of Health Information. *Applied Sciences*. 12(19): 9845

Mohammed, Stephanie, Venkatesan Sundaram, Chalapathi R Adidam Venkata, Nikolay Zyuzikov (2023) Correction: Polycystic ovary rat model exposure to 150 kHz intermediate frequency: hypothalamic-pituitary-ovarian axis at the receptor, cellular, tissue, and hormone levels. *Journal of Ovarian Research*. 16 (1): 99

Mishra, Pooja Nag, Pankaj Kumar Mishra, Dinesh Pathak (2022) The influence of Al doping on the optical characteristics of ZnO nanopowders obtained by the low-cost sol-gel method. *Chemistry*. 4(4): 1136-1146

Pandey, Anurag, Sumit Kumar, Vinod Kumar, HC Swart (2023) Comparative Upconversion Emission Study of XWO<sub>4</sub>: Ho<sup>3+</sup>+Yb<sup>3+</sup> (X= Ba, Ca, Sr) Phosphors. *Prabha Materials Science Letters*. 2 (1): 41-47

Panwar, Sagar, Vinod Kumar, L.P. Purohit (2023) Influence of Gd doping on gas sensing performance of Gd-(ZnO/TiO<sub>2</sub>) nanocomposites. *Optical Properties*. 141: 113919

Ramadhar Singh, R., R. M. Clarke and X. T. Chadee (2023) A just energy transition for a hydrocarbon rich SIDS. *Energy* 279

Schonberg, W., W. Díaz-Merced, S. Haque (2022) Astronomy Education in the Caribbean: Conferences and Curricula. *Caribbean Journal of Education*. 44 (1 & 2): 56-76

Sharma, Ankush, Dinesh Pathak, Davinder Pal Sharma and Jean Michel Nunzi (2022) Recent advances in bulk-heterojunction solar cells: a review. *Eur. Phys. J. Appl. Phys*. 97 (81)

Sharma, Ankush, Rajesh Kumar Sharma, J.M. Nunzi, Aman Mahajan, Davinder Pal Sharma and Dinesh Pathak (2023) Electrospun Polymer Nanofibers for Technology Applications: A Short Review. *Current Materials Science*. 16(4): 376-399

Singh, Jitendra Pratap, Neema Agarwal, Varsha Sahni, Vaneet Kumar, Rahul Malhotra, Dinesh Pathak (2022). Detection of blood flow through artery in the presence of steno-occlusive disease post liver transplantation by modeling for theatrical and detrimental environmental changes. *Journal of the Indian Chemical Society*. 99(9): 100581

Sundaram, Venkatesan, Stephanie Mohammed, Nikolay Zyuzikov (2022) Effects of 150 kHz intermediate frequency electromagnetic radiation on fertility indicators in male rats. *Heliyon*. 8(12): e12228

Sundaram, Venkatesan, Stephanie Mohammed, Brian N Cockburn, MR Srinivasan, Chalapathi R Adidam Venkata, Jenelle Johnson, Lester Gilkes, Kegan Romelle Jones, Nikolay Zyuzikov (2023) Effects of Intermediate Frequency (150 kHz) Electromagnetic Radiation on the Vital Organs of Female Sprague Dawley Rats. *Biology*. 12(2): 310

Verma, Nirdosh and Dinesh Pathak (2022) Rietveld refinement and optical parameters of ZnO nanopowder synthesized by coprecipitation method. *International Journal of Modern Physics B*. 37(8): 2350078.



## Books & Book Chapters

### Department of Chemistry

Otsuki, A., Jose, S., Mohan, M., & Thomas, S. (Eds.). (2023). "Non-Destructive Material Characterization Methods". Elsevier, Chapter 19, *Atomic Absorption Spectrophotometry* pp. 549-584.

Taylor, R.A., (2023) "*Nanotechnology: Creating, Manipulating and Observing Nanostructured Systems, Pharmacognosy: Fundamentals, Applications and Strategies*" 2nd Ed., Simone Badal McCreath and Yuri N. Clement (Editors), Elsevier.

Powder-George, Y.L. (2023) "*Alkaloids. In Pharmacognosy: Fundamentals, Applications and Strategies*" Second Edition. Ed. Badal-Mc Creath, S., Clement, Y.N. Elsevier Science: Academic Press. ISBN: 9780443186578.

Powder-George, Y.L. (2023) "*Terpenoids. In Pharmacognosy: Fundamentals, Applications and Strategies*" Second Edition. Ed. Badal-Mc Creath, S., Clement, Y.N. Elsevier Science: Academic Press. ISBN: 9780443186578.

### Department of Computing and Information Technology

Khan, K. Data Structures and Algorithms in Python: A Comprehensive Guide. Self-published, Kindle direct publishing, Amazon Standard Identification Number (ASIN): B0CCXS8RNH, 2023, pp. 733.

Khan, K. Unraveling Gödel's Paradox: The Journey of Incompleteness in Mathematics. Self-published, Kindle direct publishing, Amazon Standard Identification Number (ASIN): B0CCR3MYGH, 2023, pp. 578.

Khan, K. Mastering Docker: A Comprehensive Guide to Containerization. Self-published, Kindle direct publishing, Amazon Standard Identification Number (ASIN): B0CCN1533V, 2023, pp. 725.

Khan, K. Intelligent Things: Exploring AIoT Technologies and Applications. Self-published, Kindle direct publishing, Amazon Standard Identification Number (ASIN): B0CCGZRB5C, 2023, pp. 671.

Khan, K. Mastering Kubernetes: A Comprehensive Guide to Container Orchestration. Self-published, Kindle direct publishing, Amazon Standard Identification Number (ASIN): B0CC7XLJGY, 2023, pp. 615.

Khan, K. Immersive Video Streaming: Exploring Augmented Reality, Mixed Reality, and Virtual Reality. Self-published, Kindle direct publishing, Amazon Standard Identification Number (ASIN): B0CC4GMFZ5, 2023, pp. 275.

Khan, K. Mobile Ad Hoc Networks (MANETs): Characteristics, Routing Protocols, and Future Trends. Self-published, Kindle direct publishing, Amazon Standard Identification Number (ASIN): B0CC15SBKX, 2023, pp. 289.

Khan, K. Vehicular Ad Hoc Networks (VANETs): An Introduction to Connected Vehicles and Intelligent Transportation Systems. Self-published, Kindle direct publishing, Amazon Standard Identification Number (ASIN): B0CBZT35CC, 2023, pp. 245.

Khan, K. Data Science in Cloud Computing: Harnessing the Power of Data in the Cloud. Self-published, Kindle direct publishing, Amazon Standard Identification Number (ASIN): B0CBYC8F79, 2023, pp. 411.

# PUBLICATIONS AND CONFERENCES

ONLINE ONLY

Khan, K. Quantum Horizons: Navigating the Future of Computing. Self-published, Kindle direct publishing, Amazon Standard Identification Number (ASIN): B0CBJ9N7CG, 2023, pp. 520.

Khan, K. Contemporary Computer Networks: An Introduction to Modern Network Technologies. Self-published, Kindle direct publishing, Amazon Standard Identification Number (ASIN): B0CBH326L8, 2023, pp. 574.

Khan, K. Modern Software Engineering: Principles and Practices. Self-published, Kindle direct publishing, Amazon Standard Identification Number (ASIN): B0CBDWPGY9, 2023, pp. 646.

Khan, K. A Comprehensive Guide to Modern Web Development and Programming. Self-published, Kindle direct publishing, Amazon Standard Identification Number (ASIN): B0CB9SMX5F, 2023, pp. 620.

Khan, K. NewSQL Essentials: Scaling Relational Databases for the Cloud Era. Self-published, Kindle direct publishing, Amazon Standard Identification Number (ASIN): B0CB7C6SM5, 2023, pp. 546.

Khan, K. Assembly Language Programming Concepts: From Basics to Advanced Techniques. Self-published, Kindle direct publishing, Amazon Standard Identification Number (ASIN): B0C9VR2GL1, 2023, pp. 1698.

Khan, K. Foundations of Computer Architecture: Principles and Design. Self-published, Kindle direct publishing, Amazon Standard Identification Number (ASIN): B0C9CB8LC7, 2023, pp. 275.

Khan, K. Design Patterns Demystified: Unlocking the Power of Object-Oriented Programming. Self-published, Kindle direct publishing, Amazon Standard Identification Number (ASIN): B0C98D5MTY, 2023, pp. 1677.

Khan, K. Mastering Object Oriented Programming. Self-published, Kindle direct publishing, Amazon Standard Identification Number (ASIN): B0C8XR6W4Z, 2023, pp. 324.

Khan, K. Theory of Computing. Self-published, Kindle direct publishing, Amazon Standard Identification Number (ASIN): B0C4KMN14J, 2023, pp. 558.

Khan, K. Quantum Cryptography Protocols. Self-published, Kindle direct publishing, Kindle direct publishing, Amazon Standard Identification Number (ASIN): B0C4D1S2L9, 2023, pp. 887.

Khan, K. Routing Protocols in Sensor Networks. Self-published, Kindle direct publishing, Kindle direct publishing, Amazon Standard Identification Number (ASIN): B0C3T9LV77, 2023, pp. 3194.

Khan, K. Dynamic programming. Self-published, Kindle direct publishing, Kindle direct publishing, Amazon Standard Identification Number (ASIN): B0C2NNXP5, 2023, pp. 707.

Khan, K. Knapsack Problems. Self-published, Kindle direct publishing, Kindle direct publishing, Amazon Standard Identification Number (ASIN): B0C2H15CGT, 2023, pp. 327.

Khan, K. Cloud Migration. Self-published, Kindle direct publishing, Kindle direct publishing, Amazon Standard Identification Number (ASIN): B0C2187GQG, 2023, pp. 1001.

Khan, K. Cloud Disaster Recovery. Self-published, Kindle direct publishing, Kindle direct publishing, Amazon Standard Identification Number (ASIN): B0C1TWHHVL, 2023, pp. 647.

Khan, K. Cloud Brokerage. Self-published, Kindle direct publishing, Kindle direct publishing, Amazon Standard Identification Number (ASIN): B0C1MT35BZ, 2023, pp. 1551.

Khan, K. Cloud Monitoring. Self-published, Kindle direct publishing, Kindle direct publishing, Amazon Standard Identification Number (ASIN): B0BZX7BVGT, 2023, pp. 3027.

Khan, K. Cloud Orchestration Fundamentals. Self-published, Kindle direct publishing, Kindle direct publishing, Amazon Standard Identification Number (ASIN): B0BYN1JFGN, 2023, pp. 2030.

Khan, K. Video Streaming Metaheuristics. Self-published, Kindle direct publishing, Kindle direct publishing, Amazon Standard Identification Number (ASIN): B0BXS2VTNQ, 2023, pp. 369.

Khan, K. Metaheuristics. Self-published, Kindle direct publishing, Kindle direct publishing, Amazon Standard Identification Number (ASIN): B0BXKQ8YCL, 2023, pp. 1204.

Khan, K. Cloud Security. Self-published, Kindle direct publishing, Kindle direct publishing, Amazon Standard Identification Number (ASIN): B0BVYWWZJP, 2023, pp. 516.

Khan, K. Contemporary Technologies in Cloud Computing. Self-published, Kindle direct publishing, Kindle direct publishing, Amazon Standard Identification Number (ASIN): B0BVL49LBP, 2023, pp. 419.

Khan, K. Modern Storage Systems. Self-published, Kindle direct publishing, Kindle direct publishing, Amazon Standard Identification Number (ASIN): B0BVGBLCF9, 2023, pp. 382.

Khan, K. Cloud Networking. Self-published, Kindle direct publishing, Kindle direct publishing, Amazon Standard Identification Number (ASIN): B0BTXVDR5H, 2023, pp. 300.

Khan, K. Operating Systems Fundamentals. Self-published, Kindle direct publishing, Kindle direct publishing, Amazon Standard Identification Number (ASIN): B0BSGB6GKT, 2023, pp. 475.

Khan, K. Multi-Task and Meta Learning Concepts. Self-published, Kindle direct publishing, Kindle direct publishing, Amazon Standard Identification Number (ASIN): B0BRR2VNVM, 2023, pp. 531.

Khan, K. Cloud Computing Fundamentals. Self-published, Kindle direct publishing, Kindle direct publishing, Amazon Standard Identification Number (ASIN): B0BRD9P4PN, 2022, pp. 308.

Khan, K. Crypto Cipher Systems. Self-published, Kindle direct publishing, Kindle direct publishing, Amazon Standard Identification Number (ASIN): B0BN77N577, 2022, pp. 253.

Khan, K. Internet of Things (IoT). Self-published, Kindle direct publishing, Kindle direct publishing, Amazon Standard Identification Number (ASIN): B0BGWRQSDD, 2022, pp. 261.

Khan, K. Deep Learning Networks. Self-published, Kindle direct publishing, Kindle direct publishing, Amazon Standard Identification Number (ASIN): B0BGD77QSR, 2022, pp. 573.

# PUBLICATIONS AND CONFERENCES

## ONLINE ONLY

Louison, N., W. Goodridge, K. Khan (2022) Learning Sign Language Representation using CNN-LSTM, 3DCNN, CNN-RNN-LSTM and CCN-TD. SPRINGER NATURE - Research Book Series: Transactions on Computational Science & Computational Intelligence

Ramai, D., P. S. Mohammed, (2023). Using Automatic and Semi-automatic Methods for Digitizing the Dictionary of Trinidad and Tobago English/Creole into a Graph Database. In: Stephanidis, C., Antona, M., Ntoa, S., Salvendy, G. (eds) HCI International 2023 Posters. HCII 2023. Communications in Computer and Information Science, vol 1834. Springer, Cham. [https://doi.org/10.1007/978-3-031-35998-9\\_19](https://doi.org/10.1007/978-3-031-35998-9_19)

### *Department of Life Sciences*

Deacon, A.E. (2023) The guppy (*Poecilia reticulata*) CABI Compendium

### *Department of Physics*

Haque, S., Marshall, D. (2022) Our Caribbean Sky. Eniath's Printery, Trinidad and Tobago, ISBN: 978-976-8308-95-5

Kumar, Vinod, Habtamu F. Etefa, Mulugeta T. Efa, Leta T. Jule. (2022) Hybrid 1D Semiconducting ZnO and GaN Nanostructures for Light-Emitting Devices. In 1D Semiconducting Hybrid Nanostructures: Synthesis and Applications in Gas Sensing and Optoelectronics. Ed. Arvind Kumar, Dinesh K. Aswal, Nirav Joshi. Wiley-VCH GmbH. ISBN:9783527837649.

Sagar Panwar, Vinod Kumar, L.P. Purohit (2023) Oxide thin films grown using spin-coating methods. In Defect-Induced Magnetism in Oxide Semiconductors. Ed. Parmod Kumar, Jitendra Pal Singh and Vinod Kumar. Woodhead Publishing Series. ISBN 978-0-323-90907-5.

Verma, Nirdosh, Dinesh Pathak, Vaneet Kumar (2023) Broad perspective of environmental remediation technology and their recent advances through size- and shape-dependent properties of metal oxides. In Novel Materials for Environmental Remedial Application: Adsorption and Beyond. Ed. Dimitrios A. Giannakoudakis, Lucas Meili, Ioannis Anastopoulos. Elsevier Publishing. ISBN 978-0-323-91894-7.

## Reviews

### *Department of Computing and Information Technology*

Khan, K. Reviewer: The 12th International Conference on Electronics, Communications and Networks (CECNet2022).

Khan, K. Reviewer: UTT journal the Caribbean Journal of Multidisciplinary Studies (CJMS)

Rajamanickam V. Reviewer: UTT journal the Caribbean Journal of Multidisciplinary Studies (CJMS).

Ramkissoon, A. N. Reviewer: Journal of Advances in Information Technology (JAIT).

Ramkissoon, A. N. Reviewer: The Journal of Supercomputing.

Ramkissoon, A. N. Reviewer: Social Network Analysis and Mining (SNAM).

Ramkissoon, A. N. Reviewer: International Journal of Human computer Interaction.

Manohar, K. Reviewer: Connection Science (SCI 1.042)

Manohar, K. Reviewer: The Journal of Supercomputing (SCI 3.3).

*Department of Life Sciences*

Tyrrel, C. & J. F. Morales. A review of the woody bamboos (Poaceae: Bambusoideae: Bambuseae) of Trinidad and Tobago. Botany 2023. Annual congress: (American Society of Plant Taxonomist) Boise, Idaho, United States, June 2023

J.F. Morales. *Macroscepis sinalobolana* (Apocynaceae, Asclepiadoideae, Gonolobeae) a new and endemic species to Sinaloa, Mexico Phytotaxa

J.F. Morales. Two New Cauliflorous Species and a new synonym of *Aristolochia* (Aristolochiaceae) from Southern Central America Systematic Botany

J.F. Morales. A new species of *Matelea* (Apocynaceae, Asclepiadoideae) from Península de Nicoya, Guanacaste, Costa Rica Novon

J.F. Morales. Synthesis of the genus *Spigelia* L. (Loganiaceae) in North America, Central America, Acta Botanica Mexicana

J.F. Morales. *Gonolobus gonzaleziarum* (Apocynaceae), especie nueva de la ecorregión Madre Tropical de la Sierra Madre Occidental, México Acta Botanica Mexicana

J.F. Morales. A New Species and a New Combination in South American Asclepiadoideae (Apocynaceae). Novon

J.F. Morales. Towards a revision of the genus *Orthosia* Decne. (Apocynaceae: Asclepiadoideae: Asclepiadeae) Annals of the Missouri Botanical Garden

J.F. Morales. *Hechtia kruseana* and *Hechtia rosamariae* (Bromeliaceae; Hechtioideae), two new species from Guerrero, Mexico. Nordic Journal of Botany

J.F. Morales. Genomic relationships between diploid *Adenium obesum* and polyploid *A. arabicum* (Apocynaceae) Plants

J.F. Morales. A new combination in *Nasa* (Loasaceae) from Mesoamerica Phytotaxa

J.F. Morales. Orchidaceae acostanae: typification of Costa Rican orchid species described by Rudolf Schlechter from collections by Guillermo Acosta Botanical letters.

J.F. Morales. Nuevo *Gonolobus* (Apocynaceae, Asclepiadoideae, Gonolobeae, Gonolobineae) para la Faja Volcánica Transmexicana, Puebla, México. Botanical sciences.

J.F. Morales. Trials and tribulations of Neotropical plant taxonomy: pace of tree species description People Plants Planet.

J.F. Morales. *Clusia salicifolia* (Clusiaceae), a new hemiepiphyte species from Costa Rica and Panama Kew Bulletin

J.F. Morales. A new *Malaxis* (Orchidaceae: Malaxidinae) from the Campos de Altitude of the Atlantic Rainforest in southern Brazil. Nordic Journal of Botany

J.F. Morales. *Ruehssia*, a lineage of the last African migrant of the Asclepiadoideae (Apocynaceae, Marsdeniae) Acta Botanica Venezuelica

J.F. Morales. Systematics of *Urostephanus*: Resurrection of a Mesoamerican taxon of Gonolobinae (Apocynaceae; Asclepiadoideae) Acta Botanica Mexicana

J.F. Morales. Una nueva y diminuta *Matelea* (Apocynaceae) de Veracruz, México Botanical Sciences

# PUBLICATIONS AND CONFERENCES

ONLINE ONLY

J.F. Morales. Another remarkable new species of *Dictyanthus* (Apocynaceae, Asclepiadoideae, Asclepiadeae, Gonolobinae) with long stylar head from Mexico. *Phytotaxa*

## Conference Papers & Proceedings

### *Department of Chemistry*

Jenna-Marie Alvarez and Terry Mohammed. (2023) "The Evaluation of Arsenic (Total and Inorganic) In Chicken and Chicken Products Consumed in Trinidad and Tobago and the Estimation of the Associated Potential Health Risks to the Population" International Conference on Global Public Health on 8/22/ in Montreal.

Terry I. Mohammed., "The Role of Quality Assurance as a tool for Culture Change." Caribbean Academy of Science 3rd Biennial Conference and General Meeting 2023, Trinidad and Tobago -

Collimore, W.A. & Bent, G-A. (2022) "A dietary risk assessment of organochlorine and organophosphate pesticide residues found in commonly consumed fruits and vegetables in Trinidad and Tobago." FORECAST Virtual Conference 2022; The University of the West Indies, Mona and The University of Technology, Jamaica. August 10 – 12.

### *Department of Computing and Information Technology*

J AQUI and M. Hosein, (2022)."Mobile Adhoc Networks - Establishing Initial Risk Profiles utilizing ML Techniques," 2022 IEEE 2nd International Conference on Mobile Networks and Wireless Communications (ICMNWC)Tumkur, Karnataka, India, pp. 1-5, doi: 10.1109/ICMNWC56175.2022.10031628. 2022 (Won IEEE best conference paper award 2022)

J. AQUI and M. Hosein, (2022) "Mobile Ad-hoc Networks Topic Modelling and Dataset Querying, 2022 IEEE 2nd International Conference on Mobile Networks and Wireless Communications (ICMNWC) Tumkur, Karnataka, India, pp. 1-6, doi: 10.1109/ICMNWC56175.2022.10031921.

J. Chattergoon, F. Mohammed, K. Gillette, B. Peters and P. Hosein, (2022) "An Open Dataset of Labelled Tropical Crops (Best Paper Award)" International Conference on Smart and Innovative Agriculture.Yogyakarta, Indonesia, Nov

C. Ganar and P. Hosein (2022) "Customer Segmentation for Improving Campaigns in the Banking Industry"Asia Conference on Machine Learning and Computing.Bangkok, Thailand, Dec

W. Goodridge, K. Khan, K. Sookram (2023) Decentralized Vehicle Asset Management System (DeVAM) 5th Blockchain and Internet of Things Conference (BIOTC), Osaka, Japan (Best Paper Presentation), July

S. Gooljar, K. Manohar, P. Hosein, (2023). "Performance Evaluation and Comparison of a New Regression Algorithm" 12th International Conference on Data Science, Technology and Applications, July.

S. Gooljar, K. Manohar and P. Hosein (2023). "Performance Evaluation and Comparison of a New Regression Algorithm" International Conference on Data Science, Technology and Applications. Rome, Italy, July

D. Goordeen, N. Sharma and P. Hosein (2022) "Predicting Insurance Churn to Reduce Clawback" IEEE International Conference on Technology Management, Operations and Decisions, (virtual event) Nov

K. Harrykissoon and P. Hosein (2022) "Crop Price Prediction: A Comparison of the Recursive and Direct Forecasting Strategies on SARIMAX Models" International Conference on Knowledge Discovery. Macau, China, Dec

O. Hillocks and P. Hosein (2022) "Predicting Student Examination Performance to improve Remedial Programs", IEEE International Conference on Technology Management, Operations and Decisions, (virtual event), Nov

P. Hosein (2022) "A Data-Driven Pricing Strategy for Automobile Insurance Policies" Asia Conference on Machine Learning and Computing. Bangkok, Thailand, Dec

M. Hosein and J. Aqai, (2022) "Mobile Adhoc Networks - An Overview of Risk Identification, Intrusion Detection and Machine Learning Techniques used," IEEE 2nd International Conference on Mobile Networks and Wireless Communications (ICMNWC) Tumkur, Karnataka, India, 2022, pp. 1-5, doi: 10.1109/ICMNWC56175.2022.10031757.

P. Hosein and S. Sankar (2023). "On the Dependence of Drop-Out Rates on Cohort Size in Public Universities", The 18th Scientific Annual International Conference for Business (SICB) Amman, Jordan, May

P. Hosein, K. Manohar, K. Manohar (2023) "A Successive Quadratic Approximation approach for tuning parameters in a previously proposed Regression Algorithm." 12th International Conference on Data Science, Technology and Applications. Rome, Italy, July 2023

O. Mohammed, K. Manohar, K. Gillette, B. Murphy, P. Hosein (2022). "Data4Good: An Established Framework for supporting Civil Society Organizations" IEEE International Humanitarian Technology Conference, Dec.

P. Mohan and M. Hosein, (2022) "A System for Giving Presentations with the NAO Robot," IEEE Games, Entertainment, Media Conference (GEM). St. Michael, Barbados, 2022, pp. 1-6, doi: 10.1109/GEM56474.2022.10017306.

W. O'Connell and P. Hosein (2023) "A Cognitive Automation Solution for responding to Service Desk Requests" International Conference on Digital Age and Technology Advances for Sustainable Development. Casablanca, Morocco, May

K. Rajaram and P. Hosein (2022) "A Cost-Reward Optimization Approach to Bank Loan Approvals" International Conference on Knowledge Discovery. Macau, China, Dec.

N. Ramesar, N. Sharma, S. Ramoudith and P. Hosein (2022) "A Cost-Minimization Approach to Automobile Insurance Fraud Detection" International Seminar on Machine Learning, Optimization and Data Science (virtual) Dec

Rajamanickam, V., Jayaraman, J., Ramsuhag, A., (2022) "Foliar Disease Detection and Quantification using Image Analysis Tools", Frontiers of Research in Caribbean Science, and Technology (FORECAST) Conference, 10th – 12th August .

# PUBLICATIONS AND CONFERENCES

## ONLINE ONLY

R. Ramjattan, R. Ratan, S. Ramoudith, P. Hosein and D. Mazzei, (2023) "Using Continual Learning on Edge Devices for Cost-Effective, Efficient License Plate Detection" International Conference on Computer Vision Theory and Applications. Lisbon Portugal, Feb

N. Ramkissoon, V. Rajamanickam, and W. Goodridge (2023), "Fake Face2Face Video Detection Using a Novel Scene and Texture Based Feature Set" 27th International Conference on Image Processing, Computer Vision, & Pattern Recognition (ICCV'23) Las Vegas, USA, 24 July - 27 July.

N. Ramkissoon, V. Rajamanickam, and W. Goodridge (2022). "Scene and Texture Based Feature Set for DeepFake Video Detection" 2022 IEEE International Conference on Data Mining Workshops (ICDMW) Orlando, FL, USA, 28 November - 1 December, 2375-9259/22, DOI 10.1109/ICDMW58026.2022.00021, pp. 90 - 97.

R. Ratan, S. Ghool, R. Ramjattan, S. Ramoudith and P. Hosein (2022) "Using Edge Devices and Machine Learning for Controlled Access to a Smart Campus", International Conference on Computational Intelligence and Communication Networks, Al-Khobar, Saudi Arabia, Dec

S. Sankar, M. Lewis and P. Hosein (2022) "Above ground Biomass estimation of a Cocoa Plantation using Machine Learning" ICDM Workshop on Data Mining in Earth System Science Orlando, Florida, Nov

R. Sekhon, P. Hosein and S. Pack (2023). "A Cross-Slice Resource Orchestration Framework for 5G Network Services" IEEE International Conference on Distributed Computing Systems. Hong Kong, China, July

O. Mohammed, K. Manohar, K. Gillette, B. Murphy and P. Hosein (2022) "Data4Good: An Established Framework for Supporting Civil Society Organizations" IEEE International Humanitarian Technologies Conference, (virtual event) Dec

F. Mohammed, J. Chattergoon, R. Fontelera, O. Mohammed and P. Hosein (2022) "Weed and Water Stress Detection using Drone Video" International Conference on Smart and Innovative Agriculture Yogyakarta, Indonesia, Nov

### *Department of Life Sciences*

Ali, O., Ramsubhag, A., J. Jayaraj. (2023) Biostimulatory effects of a Sargassum formulation on tomato and sweet pepper and the underlying mechanisms of action. SARGOOD International Conference, June 14-15, Université des Antilles, Guadeloupe.

J. Jayaraj, Ali, O., Ramsubhag, A., Bharat, A., Chadee, S., Lutchman, A., Pragadish, J., Sahadeo, U. (2023) Valorization of Sargassum biomass for application in agriculture. SARGOOD International Conference, June 14-15, , Université des Antilles, Guadeloupe.

J. Jayaraj, Ali, O., Ramsubhag, A. (2022) Efficacy of marine algal bioelicitors in tropical crop plants. 8th International Conference of the Indian Phytopathological Society; Plant Pathology: Retrospect and Prospects March 23-26, , SKNAU, Jobner, India.

Ali, O., Ramsubhag, A., J. Jayaraj. (2022) Global transcriptomic analysis provides evidence for host priming and growth induction effects by seaweed extracts in tomato and sweet pepper. 8th International Conference of the Indian Phytopathological Society; Plant Pathology: Retrospect and Prospects March 23-26, , SKNAU, Jobner, India.



J.F. Morales (2023) Flora de Colombia: integrando filogenias y taxonomía. Un cuento de hadas o una pesadilla? El caso de Apocynaceae / Flora of Colombia: integrating phylogenies and taxonomy. A fairy tale or a nightmare? The case of Colombia. Primer simposio. Avances en el conocimiento de la Flora Colombiana. Jardín Botánico de Medellín, Colombia October

J.F. Morales (2023) Estudios filogenéticos en Odontadenia y Mesechiteae: afinando circumscripciones genéricas / Phylogenetics studies in Odontadenia and Mesechiteae. II Seminario Internacional de intercambio científico entre Colombia y Ecuador. Universidad Técnica de Cotopaxi- UTC, Ecuador, Universidad Regional Amazónica – IKIAM, Ecuador, Universidad del Quindío - UQ, Ecuador November

R. Haraksingh, D. Jones, N. Seecheran (2022) Oral Presentation: "Association of CYP2C19\*2 and CYP2C19\*3 allelic variants with clopidogrel resistance in cardiovascular disease patients in Trinidad, W.I." National Health Research Conference- 25th November, Port of Spain, T&T.

J.F. Morales (2023) Phylogenetics and Systematics of Apocynaceae and the National Herbarium of Trinidad and Tobago. Herb Society of America, Ohio, U.S.A. October

J.F. Morales (2023) Nomenclature and Plant Systematics. National University of Costa Rica, Costa Rica. September

J.F. Morales How to submit your paper to avoid being rejected. Mesoamerican and Caribbean Herbaria Network.

### *Department of Mathematics and Statistics*

D. M. G. Comissiong (2023) "Mathematical Analysis of Team Impact and Individual Player Contribution in Football". 19th Annual International Conference on Sport & Exercise Science, 24-27 July, Athens, Greece. Co-authors: J. Leela, K. Rahaman.

### *Department of Physics*

Joseph (2023) Mental Health: Reframing the National Perspective. NWRHA's 5th Annual Research Day. April 21

S. Haque (2023) Bringing Astronomy down to Earth for Everyone. Disability Matters: Inclusive Futures- Transformative Structures - The UWI Network and Outreach for Disability Education and Sensitization (NODES). April 21,

Khullar, Vikas; R M Veeramanickam ; S. Muthukumarasamy; C Prabha; Harjit Pal Singh; V Pavankumar, (2023) Hybrid of DNN Feature Extraction and Ensemble Classification for Identification of Esophagitis and Barretts in Upper Gastrointestinal Tract Images, in Proceedings of International Conference on Computer, Electronics & Electrical Engineering & their Applications (IC2E3), 08-09 June, 10.1109/IC2E357697.2023.10262774

Ocaña Flaquer, B., W. L. Diaz Merced, S. Haque, R. Narcisse, J. Mejuto, E. Diaz, Domínguez, S Vargas, A. Bieyrla, K. Eastwood, (2022). Caribbean Astronomy for Inclusion (CAI): Transforming Theory on Inclusion into Concrete Actions. Proceedings of the 2nd Workshop on Astronomy Beyond the Common Senses for Accessibility and Inclusion (Virtual). Revista Mexicana de Astronomía y Astrofísica. Serie de conferencias. Vol. 54: 84

# PUBLICATIONS AND CONFERENCES

ONLINE ONLY

## Other Publications

### Department of Chemistry

#### EXHIBITIONS

M Forde, Green Earth Blue Sky- Sunlight Driven Carbon Dioxide Recycling GF Project No.GF120000408, Presentation to Green Fund Executing Committee, Ministry of Planning and Development, Waterfront Tower Port of Spain, 01 June 2023.

#### TECHNICAL REPORTS

T. I. Mohammed, Recommended Sustainable Produced Water Management Process for Upstream Oil and Gas Operators - Upstream Effluent Management Working Group (UEMWG), - accepted by Cabinet of Trinidad and Tobago on 24th February 2023.

### Department of Life Sciences

Linton Lee Arneaud, J. Francisco Morales & Dan Jaggernauth. 2023. Native Palms of Trinidad and Tobago. Field Museum of Natural History Field Guides, Chicago, U.S.A.

## FACULTY OF SOCIAL SCIENCES

### Journal Publications

H. Baek, S. Han, and Seepersad, R. "Low Self-Control and Delinquent Behavior among Caribbean Youths: The Moderating Role of Parental Supervision." *International Journal of Offender Therapy and Comparative Criminology*. <https://doi.org/10.1177/0306624X231170134>

Boodram, C.A. and S.O. Thomas (2022) "Social Work and Community Engagement: A Case Study of a University/Community Collaborative Project in Trinidad and Tobago." *The International Journal of Community and Social Development*. Sage Journals. 4(4): 539–550. <https://doi.org/10.1177/25166026221125314>

Cabralis, S., C.E. Foo, L. Bramble Macellino (2022) "Attracting Female Soccer Referees –The Trinidad and Tobago experience." *Soccer & Society*. DOI: 10.1080/14660970.2022.2146675.

Cabralis, S., Foo, E. Cornell, E. Avleeva, G. R. Schaefer (2022) "Role Modelling as a Motivating Factor on International Student Athlete Recruitment." *Journal of Contemporary Athletics*. ISSN 1554: 9933.

Esnard, T. (2023) "Public Policy, Collaborative Governance, and Female Entrepreneurship in the Caribbean: A Critical Assessment." *Journal of Dialogue Studies*, Special Issue- Governance for the Human Future: The Centrality of Dialogue. 23(11): 178-193.

S. R Evans, T. Joseph, Descartes, C. and Esnard, T. (2022) "Don't worry: It's a Koudmen." *Caribbean Quarterly*. 68 (3): 402-422.

- Esnard, T. (2023) "Deepened coloniality, Heightened Structuralism: Implications for Institutional and Intellectual practice in the Caribbean". *Affective Capitalism in Academia*. (47-64). UK: Bristol University/Policy Press.
- Gomes, S., Antonia Mungal and Krystal Gopeesingh. (2022.) "Social Reproduction in Precarious Times: A Youth Perspective from Trinidad and Tobago". *NEOS* 14 (2): 1-6. *Anthropology of Children and Youth Working Group*, AAA.
- Gomes, S., A. Mungal, and K. Gopeesingh (2022) "Social Reproduction in Precarious Times: A Youth Perspective from Trinidad and Tobago": *Anthropology of Children and Youth Working Group*. AAA. *NEOS*. 14 (2): 1-6.
- Lee Pow, J., A.A. Baumeister, A.S. & Garand J. C. (2022) "Deinstitutionalization and the impact of antipsychotics versus policy change Cohen." *Ethical Human Psychology and Psychiatry* DOI: 10.1891/EHPP-2022-0001.
- C. Morgan, A. Cohen, G.M. Esponda, T. Roberts, S. John, Lee Pow, J., C. Donald, B. Olley, O. Ayinde, J. Lam, P. Poornachandrika, P. Dazzan, F. Gaughran, P. Ponnusamy, S. Sudhakar, J. Burns, B. Chiliza, E. Susser, H. Wiess, R. Murray, T. Rangaswamy, O. Gureje, G. Hutchinson (2023) "The epidemiology of untreated psychoses in three diverse settings in the Global South: the INTREPID II programme." *JAMA Psychiatry*. 80(1):40–48. doi:10.1001/jamapsychiatry.2022.3781
- T. Roberts, E. Susser, Lee Pow, J., C. Donald, S. John, V. Raghavan, O. Ayinde, B. Olley, G. Miguel Esponda, J. Lam, R.M. Murray, A. Cohen, H.A. Weiss, G. Hutchinson, R. Thara, O. Gureje, J. Burns, INTREPID Group, C. Morgan, (2023) "Urbanicity and rates of untreated psychotic disorders in three diverse settings in the Global South." *Psychological Medicine*. doi: 10.1017/S0033291722003749 2
- V. Venkatesh, Esnard, T., V. Bogoeski, and T. Ferrando (2023) "Migrant farmworkers: Resisting and organising before, during and after COVID-19." *Journal of Agrarian Change*. 1–11. <https://doi.org/10.1111/joac.12546>
- F. D. Boateng, M. K. Dzordzormenyoh and Wallace, W. C. (2023) "Predictors of public support for the death penalty in the Americas: A comparative analysis." *Criminology & Criminal Justice*. 1-23. Early Access - <https://doi.org/10.1177/17488958231166564>.
- M. Bahall and Bailey, H. (2022) "The Impact of Chronic Disease and Accompanying Bio-Psycho-Social Factors on Health-Related Quality of Life." *Journal of Family Medicine and Primary Care*. 11(8): 4694-4704.
- Henry, H. B., M.F. Janssen, F. Alladin, A. La Foucade, R. Varela, J.A. Moreno, M. Wharton, P. Castillo and G. Boodraj (2022) "Evaluating Health Inequality in Five Caribbean Basin Countries Using EQ-5D-5L." *Applied Health Economics and Health Policy*. 20: 857–866 <https://doi.org/10.1007/s40258-022-00754-9>
- La Foucade, A., C. Laptiste, A. Alcaraz, K. Theodore, A. Cumberbatch, K. Gittens-Baynes, V. Beharry, S. Gabriel, Metivier, C., P. Edwards-Wescott, D. Bethelmie (2023) "The health and economic burden associated with sugar-sweetened beverage consumption in Trinidad and Tobago." *Nutrition and Health*. <https://doi.org/10.1177/02601060231156117>.
- La Foucade, A., S. Gabriel, V. Beharry, C. Laptiste, Metivier, C., T.A. Samuels, K. Theodore, P. Edwards-Wescott (2022) "Assessing the determinants of unhealthy dietary habits among a sample of survey participants in Jamaica." *Rev Panam Salud Publica*. 2022 Aug 25;46:e72. <https://doi.org/10.26633/RPSP.2022.72>. PMID: 36042708; PMCID: PMC9409606 .

# PUBLICATIONS AND CONFERENCES

ONLINE ONLY

- A. Alcaraz, E.B. Ariel, N. Espinola, L. Perelli, F. Rodriguez Cairoli, La Foucade, A., C.M. Mello Vianna, G. Guevara, K-A Gittens-Baynes, P. Johns, V. Beharry, D.J. Balán (2023) "Health and Economic Burden of Disease of Sugar-Sweetened Beverage Consumption in Four Latin American and Caribbean Countries: A Modelling Study." *BMJ Open*. ISBN 9789275122990
- G. Saridakis, P. Ferreira, Mohammed, A-M and S. Marlow (2022) "The relationship between gender and promotion over the business cycle: Does firm size matter?" *British Journal of Management*. 33 (2): 806-827. <https://doi.org/10.1111/1467-8551.12458>
- Hosein, R., G. Saridakis, C. Alexiou and N. Satnarine-Singh (2022) "Hegemonic Sanctions and Global Economic Ramifications in the Context of the Russian-Ukrainian Conflict: A Commentary." *SPOUDAI Journal of Economics and Business*. Vol. 72(1-2): 34-55.
- Hussain, R. (2022) "The Influence of Intrinsic Motivational Forces on Consumers' Product Purchase Intentions." *Journal of Mediterranean Tourism Research*. ISSN: 2770-7555.
- Hussain, R. (2022) "The Influence of Attitude on Consumer' Autonomy to make Halal Food Purchase Intentions: An Overview of Self Determination in a Collectivist Culture." *Journal of International Business Research*. 15(3): p75-84. ISSN 1913: 9004
- Hussain, R. (2022) "Psychological Needs as Underlying Forces of Halal Food Purchase Intention." *Journal of Islamic Marketing*. ISSN 17590833, 17590841
- Ramdeo, S., Balwant, P., and S. H. Fraser (2022) "Not Another Team Assignment! Student Perceptions Towards Teamwork at University Management Programs." *Higher Education, Skills and Work-Based Learning*. <https://doi.org/10.1108/HESWBL-01-2022-0015>.
- Ramlogan, R. (2023) "Defeat ting the Use of Copyright Laws to Undermine Public Participation in the Environmental Decision-Making Process." *Electronic Green Journal*. 1(48).
- Ramlogan, R. (2022) "Emerging Issue of the Viability of Legal Mechanisms Available to Caribbean Countries to Force Action on Climate Change and Its Existential Consequences." *International Journal of Environment and Climate Change*. 12(11): 3437- 3448, 2022.
- Ramlogan, R. (2022) "The Arduous Journey for Environmental Justice: Trinidad and Tobago a Mirror of the Challenges Confronting the Developing World." *International Journal of Environment and Climate Change*. 12(11): 1211-1238, 2022.
- Shah, S. (2022) "The Influence of Intrinsic Motivational Forces on Consumers' Product Purchase Intentions." *Journal of Mediterranean Tourism Research*. ISSN: 2770-7555.
- Wallace, W. C., & Neptune-Figaro, M. (2022) "A Comparison of Women's Motivations to Enter the Police Profession in the Caribbean." *Feminist Criminology*. 17(5), 567-586. <https://doi.org/10.1177/15570851211058789>
- Wallace, W. C. (2022) An Exploration of Deterrent and Motivating Factors for Entry into Policing in Jamaica. *Journal of Police and Criminal Psychology*. 45(4), 506- 521. <https://rdcu.be/cPFs0>
- C. Jagan-Spicer and Wallace, W. C. (2023) "Comparing Bullying among Second Form Students at Two Secondary Schools in Trinidad and Tobago." *Early Access - Journal of Eastern Caribbean Studies*. April/December 2021. 46(1, 2)

Wallace, W. C., and Neptune-Figaro, M. (2022) "A Comparison of Women's Motivations to Enter the Police Profession in the Caribbean." *Feminist Criminology*. 17(5): 567-586. <https://doi.org/10.1177/15570851211058789>

Wallace, W. C. (2022) "An Exploration of Deterrent and Motivating Factors for Entry into Policing in Jamaica." *Journal of Police and Criminal Psychology*. 45(4): 506-521. <https://rdcu.be/cPFs0>

Wallace, W. C., and Neptune-Figaro, M. (2023) "Guest Editorial - Policing and justice in island communities." *Island Studies Journal*. 18(1): 3-7.

Wallace, W. C., and K. Lancaster-Ellis (2023) "Mediate or Litigate: An Evaluation of Citizen and Police Officer Perspectives on the use of Mediation to resolve Citizen-Police Conflict in Trinidad and Tobago." *Island Studies Journal*. 18(1): 99-121.

## Books

Esnard, T. (2022) *Entrepreneurship Women in the Caribbean: Critical Insights and Policy Implications*. (Palgrave Studies in Equity, Diversity, Inclusion, and Indigenization in Business). Palgrave Macmillan. P253.

Chase, V. and Gomes, S. (2022) *Measuring the Economic Costs of Violence Against Women and Girls: Facilitator's Guide*. London: Commonwealth Secretariat. P150.

Hosein, R. Gonzales, A., Tewari, B., and Gookool-Bosland, R. (2022) *A Regional, Hemispheric or Global Approach to the Venezuelan Immigrant Crisis?* Palgrave Macmillan, Cham. P284.

Ramlogan, R. (2023) *Commercial Law: Cases and Materials from The Commonwealth Caribbean*. Bookbaby. P454.

Ramlogan, R. (2022) *Protection of the Environment and the Role of the United Nations: A Tale of Bureaucratic Wastefulness*. Notion Press. P256.

Singh, R. and Ramdeo, S. (2023) *Contemporary Perspectives in Human Resource Management and Organizational Behavior: Research Overviews and Gaps to Advance Interrelated Fields*. Springer International Publishing, Imprint: Palgrave Macmillan. P224.

Tudoroiu, T. (2023) *Globalizations from Below: The Normative Power of the World Social Forum*, Ant Traders, Chinese Migrants, and Levantine Cosmopolitanism. Abingdon, Oxon: Routledge. p374

## Book Chapters

Cabralis, S. (2022) Trinidad & Tobago National Sport Facilities: Build Them and They Will Come...They Say. In *Case Studies in Sport Business Marketing*. Brenda G. Pitt. FIT Publishing. ISBN 9781940067711

Bailey, C., Seepersad, R., Marmolejo, L., de Vries, S.M., Carr, D. (2023) COVID-19 and Human Rights in Caribbean Prisons: Evidence from Barbados, Suriname and Trinidad and Tobago. In *Interdisciplinary Perspectives on COVID-19 and the Caribbean*, Volume 2. S. Roberts, H.A.F. DeShong, W.C. Grenade, D. Devonish. Palgrave Macmillan. [https://doi.org/10.1007/978-3-031-31119-2\\_9](https://doi.org/10.1007/978-3-031-31119-2_9)

# PUBLICATIONS AND CONFERENCES

ONLINE ONLY

Cobb-Roberts, D. and Esnard, T. (2023) Mentoring to subvert racialized-gendered spaces: Critical perspectives of Black women academic administrators. In *New Directions for Student Services, Special issue on The State of Black Women in Higher Education: A Critical Perspective 20 Years Later*. Nicole M. West and Christa J. Porter. Wiley Press. <https://doi.org/10.1002/ss.20463>

Descartes, C., Maharaj, P. (2023). The Psychology of Caribbean Migration: Situated Contexts, Commonalities and Challenges. In *The Movement of Venezuelans to the Americas and the Caribbean in the 21st Century*. W. C. Wallace. Palgrave Macmillan. ISBN 978-3-031-31761-3.

Esnard, T. and Williams, K. (2023) Vaccine Acceptance and Uptake in the Caribbean: A Comparative Intersectional Perspective. In *COVID\_19 and the Caribbean: Interdisciplinary Perspectives*, Vol. 1. S. Roberts, H. DeShong, W. Grenade, & D. Devonish. Palgrave Macmillan. ISBN 978-3-031-30888-8.

Esnard, T., Cobb-Roberts, D., and Pierre, D. (2023) Resisting interlocking structures and relations through Social Justice Praxis: Insights from a Dialogic Exchange between Three Black Women Academics. In *Advancing Inclusive Excellence in Higher Education: Practical Approaches to Promoting Diversity, Equity, and Inclusion*. Shawna Patterson-Stephens and Tamara Bertrand Jones. NC: Information Age. ISBN 979-8-88730-308-6.

Esnard, T. (2023) Deepened coloniality, Heightened Structuralism: Implications for Institutional and Intellectual practice in the Caribbean. In *Affective Capitalism in Academia*. Kristina Brunila and Daniel Nehring. UK: Bristol University/Policy Press. ISBN 978-1447357841.

Lewis-Cameron, A. and Brown, T. (2023) Civil Society and the Pursuit of Sustainable Tourism in the Small Island Jurisdiction of Tobago. In *Handbook of Civil Society and Social Movements in Small States*. L. Briguglio, M. Briguglio, S. Bunwaree, and C. Slatter. London, Routledge. p13-25.

Marmolejo, L., Seepersad, R., Rudes, D. S. and Taxman, F. S. (2022) Exploring Pretrial Detention and Pretrial Processes in Five Caribbean Countries. In *Handbook on Pretrial Justice*. Christine S. Scott-Hayward, Jennifer E. Copp, and Stephen Demuth. New York: Routledge. ISBN 978-0-367-71220-4.

Seepersad, R., Mohammed, L. and Thomas, M. (2022) Intimate Partner Violence and its Impact on Women's Health: The Moderating Role of Family Support and Educational Attainment. In *Domestic Violence in the Anglophone Caribbean: Consequences and Practices*. Ann Marie Bissessar and Camille Huggins. Palgrave Macmillan. ISBN 978-3-030-88478-9.

Wallace, W. C. (2022) The Global South and Crime Prevention through Social Development: Evidence from Trinidad and Tobago. In: *Policing the Global South Colonial Legacies, Pluralities, Partnerships, and Reform*. Danielle Watson, Sara N. Amin, Wendell C. Wallace, Oluwagbenga Michael Akinlabi, and Juan Carlos Ruiz-Vasquez. Routledge: New York. ISBN 9780367648114.

Wallace, W. C., & Johnny, L. (2022) Policing and Technology in the Caribbean. In *Policing the Global South Colonial Legacies, Pluralities, Partnerships, and Reform*. Danielle Watson, Sara N. Amin, Wendell C. Wallace, Oluwagbenga Michael Akinlabi, and Juan Carlos Ruiz-Vasquez. Routledge: New York. ISBN 9780367648114.

Watson, D., Amin, S. N., Wallace, W. C., & Akinlabi, O. M. (2022) Continuity and change in policing the Global South. In *Policing the Global South Colonial Legacies, Pluralities, Partnerships, and Reform*. Danielle Watson, Sara N. Amin, Wendell C. Wallace, Oluwagbenga Michael Akinlabi, and Juan Carlos Ruiz-Vasquez. Routledge: New York. ISBN 9780367648114.

Watson, D., Amin, S. N., Wallace, W. C., & Akinlabi, O. M. (2022). Policing the Global South - colonial legacies, pluralities, partnerships and reform. In *Policing the Global South Colonial Legacies, Pluralities, Partnerships, and Reform*. Danielle Watson, Sara N. Amin, Wendell C. Wallace, Oluwagbenga Michael Akinlabi, and Juan Carlos Ruiz-Vasquez. Routledge: New York. ISBN 9780367648114.

Wallace, W.C. (2023) Global Security. In *The Palgrave Encyclopaedia of Global Security Studies*. S. N. Romaniuk and P. N. Marton. Palgrave Macmillan, Cham. [https://doi.org/10.1007/978-3-319-74319-6\\_52](https://doi.org/10.1007/978-3-319-74319-6_52)

## Conference Presentations

H. Bailey (2022).  
Health Economics for RHA Professionals.  
Forum for the North Central Regional Health Authority. Trinidad and Tobago, July

H. Bailey (2022).  
From Research to Action.  
South-West Regional Health Authority Research Day  
Trinidad and Tobago, September

H. Bailey (2023).  
How health technology can improve lives.

Tech Hub Islands Summit, American Chamber of Commerce (AMCHAM),  
Trinidad and Tobago, June

## Conference Papers & Proceedings

B. Ragoonath (2023). Voting for Governance Not Government: Analyzing the two THA Polls of 2021  
SALISES 24th Annual Conference, The UWI, St. Augustine, Campus, Trinidad and Tobago, May

B. Ragoonath (2023). Empowering Caribbean Local Government for Sustainable Development: The Role of CALGA. Regional Conference of the Caribbean Association of Local Government Associations. Trinidad Hilton, Port of Spain, Trinidad and Tobago, May

C. Boodram (2022). Participatory Action Research: Opportunities, Challenges and Ethical Considerations of using 'Liming' with Venezuelan Migrants in Trinidad and Tobago. 2nd International and Interdisciplinary Conference on Spatial Methods for Urban Sustainability (SMUS Conference), Brazil. Virtual, October

C. Boodram (2022). "Access to Education for Children on the Move in Trinidad and Tobago". SALISES UWI-Toronto Metropolitan University RCYP Conference. St Augustine, Trinidad and Tobago, October,

F. Alladin (2023) "Food in the Time of COVID-19: Exploring Consumption of Selected Food Items during the COVID-19 pandemic in Trinidad and Tobago." Society for Caribbean Studies, UK. Virtual, April.

# PUBLICATIONS AND CONFERENCES

## ONLINE ONLY

F. Frederick-Davis (2023). Prevalence of Depression among Persons with Type 2 Diabetes in Trinidad  
PSI CHI 10th Anniversary Student Conference, April.

H. Bailey, S. Sanchez, S. Teelucksingh, R. Ali, G. Legall (2022). Cost Utility Analysis for Renal Replacement Therapy in Trinidad & Tobago: PD vs HD. First Latin America Academy Meeting of the EuroQol Research Group, Trinidad & Tobago, November

H. Bailey, A. Panday, S. Lucky-Samaroo, A. Maharajh (2022). Using EQ-5D-5L and MSQOL-54 to investigate mental and emotional wellbeing among Multiple Sclerosis patients in Trinidad and Tobago. First Latin America Academy Meeting of the EuroQol Research Group, Trinidad & Tobago, November

S. Sanchez, H. Bailey, S. Teelucksingh (2022). Health Status among those receiving Renal Replacement Therapy in Trinidad and Tobago. First Latin America Academy Meeting of the EuroQol Research Group, Trinidad & Tobago, November

M. Hee Chung, H. Bailey, S. Teelucksingh (2022). QoL of Diabetic patients with the Slipping Slipper Sign using the EQ-5D-5L: a prospective cohort study. First Latin America Academy Meeting of the EuroQol Research Group, Trinidad & Tobago, November

I. Rampersad (2023). Engaging Caribbean Constitutions in the Appellate Jurisprudence of the Caribbean Court of Justice. Southern Political Science Association, St. Peach Beach, Florida, January

I. Rampersad (2023). The Right to a Timely Trial as a Procedural Human Right. Southern Political Science Association, St. Peach Beach, Florida, January

I. Rampersad (2023). Domestic Politics and International Cooperation. Mid-West Political Science Association, Virtual, April.

I. Rampersad (2023). Inequality and Inclusion in Latin America. Mid-West Political Science Association, Virtual, April.

I. Rampersad (2023). Measuring & Studying Human Rights. Mid-West Political Science Association Virtual, April.

I. Rampersad (2023). Perceptions and Misperceptions: The Caribbean Court of Justice vs The Privy Council SALISES 24th Annual Conference, The UWI, St. Augustine Campus, Trinidad and Tobago, May

I. Rampersad (2023). Commonwealth Lawyers – Common Challenges in Uncommon Times  
Commonwealth Lawyers Association. 23rd Commonwealth Law Conference, Goa, India, March.

I. Rampersad (2023). CCJ or Privy Council? Southern Political Science Association, USA. Virtual Conference, June.

J. Lee Pow (2023). Applying Psychology of Learning and Memory to Examination Preparations  
PSI CHI 10th Anniversary Student Conference. Department of Behavioural Sciences, The University of the West Indies, St Augustine, April.

J. Lee Pow (2022). Cannabis use amongst people with untreated psychosis and comparison with matching controls. International Conference on Schizophrenia, Symposium, Chennai, India, August.



K. Khan (2022). "Teen mental health influencers" – preliminary findings from a novel psychosocial mental health intervention for Caribbean youth. 2nd Caribbean Congress on Youth and Adolescent Health, Kingston, Jamaica, October.

K. Samlal (2023). Acceptable Fatness: Exploring Female Fatness in Trinidad and Tobago. Society for Caribbean Studies (UK) Postgraduate Conference. Virtual, April.

A. Andrew and L. Francis-Blackman (2023). The Intersectionality between Race/Ethnicity and LGBTQIA+ Identity in Trinidad and Tobago. The 3rd Annual Caribbean Sociological Association e-Conference, June.

A. Andrew and L. Francis-Blackman (2023). Is Colonialism Over? The Case of Neo-colonialism in Trinidad and Tobago. SALISES 24th Annual Conference, The UWI, St. Augustine Campus, Trinidad and Tobago, May.

M. Ramesar (2023). Pre-disposed to Committing Juvenile Delinquency: The Role of Callous Unemotional Traits & Biological Considerations. PSI CHI 10th Anniversary Student Conference, Department of Behavioural Sciences, The University of the West Indies, St Augustine Campus, April.

M. Ramesar, C. Descartes, D. De Gourville (2022). Student Engagement during COVID-19; understanding the contributing factors within the Ecological framework. UWI| Toronto Metropolitan University | RCYP, October.

P. Marajh (2023). Climate Governance: Challenges in a Small Island Hydrocarbon Economy. SALISES 24th Annual Conference, The University of the West Indies, St Augustine Campus, Trinidad and Tobago, May.

R. Seepersad (2023). The inconsistent effect of COVID on crime in the Caribbean. International Conference on Security, Intelligence and Defence in the Caribbean, University of the Southern Caribbean (USC), Trinidad and Tobago, June.

R. Seepersad (2023). Social Solidarity and Crime: The COVID-19 Effect in Jamaica and Trinidad and Tobago. 24th Annual SALISES Conference, Learning Resource Centre, The University of the West Indies, St. Augustine Campus, Trinidad and Tobago, May.

T. Esnard (2022). Working in and through mentoring networks. IAMAS Conference: Mothering and Motherhood on the Homefront, Virtual, September.

T. Esnard (2022). Public Policy, Collaborative Governance, and Female Entrepreneurship in the Caribbean: A Critical Assessment. University of Oxford, UK. Virtual, September.

T. Esnard and D. Cobb-Roberts (2022). Voice, Agency, and Engagement: Narratives of Successful Black Women Leaders in Higher Education. Association of Higher Education, Las Vegas, Nevada, USA. Virtual, November.

T. Esnard (2023). Power, Positionality and Resistance: Narrative Cases of Women Social Entrepreneurs in the Caribbean. Social Justice and Social Entrepreneurship Symposium, United States Association of Small Business and Entrepreneurship (USASBE), Virtual, April

T. Esnard, F. Alladin and K. Samlal (2023). Prior Mathematics Performance, Statistics Anxiety, Self-Efficacy and Expectations for Performance in Statistics: A Survey of Social Sciences Students in a Caribbean Institutions of Higher Education. RoSE Network Online Conference, May.

# PUBLICATIONS AND CONFERENCES

## ONLINE ONLY

T.Esnard and V.Bernard (2023). Global Anti-Blackness, Decoloniality, and African descended womanhood: An interrogation. Caribbean Sociological Association (CSA), Virtual, June.

T. Esnard (2023). Moving Beyond Disciplinary Terrains and the Epistemology of Resistance to Mixed Methodology. An Ecological Perspective, Mixed Methodology Conference, School of Education, The University of the West Indies, St. Augustine, July.

T. Esnard, F. Alladin, L. Addison, D. Brito and K. Samlal (2023). Challenges of Teaching and Learning Statistics in Higher Education: An Exploratory Sequential Mixed Methods Approach. School of Education, The University of the West Indies, St. Augustine, July.

T.Tudoroiu (2022). China's Belt and Road Initiative: The Geopolitical Dimension. 118th American Political Science Association Annual Meeting, Montreal, September.

T. Tudoroiu (2023). China's New International Order and the Belt and Road Initiative. SALISES 24th Annual Conference, The University of the West Indies, St. Augustine Campus, Trinidad and Tobago, May.

W.C. Wallace (2022). Gun Violence, Gun Homicide and Justice Systems in Trinidad and Tobago: What is to be Done? SALISES 12th Virtual Forum. The University of the West Indies, St. Augustine Campus, Trinidad and Tobago, September.

W.C. Wallace (2023). Challenges Facing Rehabilitation in Our Nation's Prisons: Achieving Crime Reduction in a Heightened Criminogenic Environment. Cipriani College of Labour and Co-operative Studies, Trinidad and Tobago, February.

W.C. Wallace (2023). Public views of the police approach to enforcing COVID-19 public health regulations in Trinidad and Tobago. SALISES 24th Annual Conference, Learning Resource Centre, The UWI, St. Augustine Campus, Trinidad and Tobago, May.

W.C. Wallace (2023). A Vignette Study of Men's Views on Reporting Domestic Violence to the Police in Trinidad and Tobago and The extent of technology usage in policing in the Caribbean. Association of Criminal Justice Sciences (ACJS) 60th Annual Meeting, Gaylord National Resort and Convention Center, National Harbor, MD, USA, March.

W.C. Wallace (2023). Residents' Perceptions of the Impact of Tourism on Crime, Deviance and the Quality of Life in Tobago. Université des Antilles Virtual Conference - Tourisme et développement, Campus Jacob-Saint-Claude, Guadeloupe, January.

## Other Publications

### INTERNET PUBLICATIONS

Balwant, P. T. (2023) The destructive instructor-leadership questionnaire: A replication study. Caribbean Curriculum, 29. <https://journals.sta.uwi.edu/ojs/index.php/cc/article/view/8176>

### INVITED REVIEWS

Esnard, T. (2022) Book Review. Framing Prior Consultation in Brazil: Ethnographic Perspectives on Limits of Participation and Multicultural Politics. Charlotte Schumman. Rural Sociology (2021) Vol. 87, 1-3.

### JOURNALISM/PUBLIC COMMENTARY

Boodram, Cheryl-Ann – Interview on TV6 Morning Edition on December 9th, 2023 on “Community trauma and the psychosocial needs of families affected by flooding”.

Huggins, Camille - Participated in a televised series "It's Family time, Let's Talk" on September 25th, 2022, on TTT. Spoke on the topic "Destigmatizing Roles in Families".

Khan, Katija - Member of the TT Ministry of Health MHPSS (Mental Health and Psychosocial Support) Technical Working Group, in collaboration with the Faculty of Social Sciences Outreach Committee, partnered with Peer Counselling Association, Student Psychology Association, Faculty of Social Sciences Guild Committee, and Guild of Students to commemorate World Mental Health Day (October 10) and support the TT Ministry of Health annual "Paint De Town Green" mental health campaign. Feature Guest Panelist speaking on Suicide prevention, Island Girl Talk, Instagram show (@islandgirltalktt), ourradio.fm. September 21, 2022.

Neptune-Figaro, Malisa - Community visit to Reservoir Laventille with members of the Citizens Alliance at the Ministry of National Security and Mark Bassant (Guardian Media Limited). The visit was intended to gain information on the challenges faced by community members and how it relates to criminality in the area. – The visit took place August 5th, 2022.

### TECHNICAL REPORTS

Bailey, H.H., Janssen, M.F., Alladin, F.M. et al. Evaluating Health Inequality in Five Caribbean Basin Countries Using EQ-5D-5L. *Appl Health Econ Health Policy* (2022). <https://doi.org/10.1007/s40258-022-00754-9>

Chase, V. and Gomes, S. (2022) *Measuring the Economic Costs of Violence Against Women and Girls Facilitator's Guide*. London: Commonwealth Secretariat. P.150.

Duong, G., Rankin, M., Ahmed, G., Rice, J., Nguyen, H., Esnard, T., & McFee, D. (2023). *The Seabob Value Chain in Guyana: Analysis and Design Report*. Rome, Food, Agriculture Organization of the United Nations (FAO).

Mohor, A., Camilo Duran Montaña, A., Silva Forné, C., B. Díaz, C., Pérez Correa, C., Marques, D., Pacheco, D., Piñol, D., Borges, D., Colochó, G., Cano, I., Sobral, I., Olivares, I., Castillo Muñoz, J., Enrique Coutiño, J., Ávila, K., Suárez Rueda, M., Olivares, M., Bravo, N., Seepersad, R., Weekes, T., Reyna, V., and Giraldo Ocampo, X. (2022) *Monitor of Use of Lethal Force in Latin America and the Caribbean: A Comparative Study of Brazil, Chile, Colombia, El Salvador, Jamaica, Mexico, Trinidad and Tobago and Venezuela (2022) [Monitor Fuerza Letal]*. doi:10.13140/RG.2.2.14207.48802.

Wang, H; Marquez, PV; Theodore, KL; Laptiste, CC; La Foucade, A D; Scott E; Metivier C; Maharaj M; Brizan–St. Martin R; Gittens-Baynes K-A; Edwards-Wescott P; Harewood H; Beharry V. 2023. *Financing of Essential Public Health Services in the Caribbean Region: Case Study. Pharmacovigilance and Essential Public Health Services Series*. Washington, DC: World Bank. <http://hdl.handle.net/10986/40381> License: CC BY-NC 3.0 IGO

Bailey H., Panday, A., Lucky-Samaroo, S., Maharajh, A. (2023) *Quality of life and the environment facing multiple sclerosis patients in Trinidad and Tobago*. Ministry of Health Trinidad and Tobago.

### OTHER OUTPUT

#### T. Esnard

Susu system in Trinidad and Tobago: An Exploration  
Canada-Caribbean Institute Symposium, Barbados, February 2023

# PUBLICATIONS AND CONFERENCES

ONLINE ONLY

## CENTRES & UNITS

ANSA McAl Psychological Research Centre

## Books & Book Chapters

Roopnarine, J., **Chadee, D.** & Primus, M. (2023). Psychology in Guyana and Trinidad and Tobago. In G.J. Rich, *Psychology in Oceania and the Caribbean*. N.Y: Springer. Forthcoming in 2024  
**Chadee, D.** & Kostic, A. Body Language Communication. Palgrave-McMillian.

Centre for Health Economics (HEU)

## Journal Publications

**La Foucade, A., Laptiste, C., Alcaraz, A., Theodore, K., Cumberbatch, A., Gittens-Baynes, K.A., Beharry, V., Gabriel, S., Metivier, C., Edwards-Wescott, P. and Bethelmie, D.,** (2023) "The health and economic burden associated with sugar-sweetened beverage consumption in Trinidad and Tobago." *Nutrition and Health*. p.02601060231156117.

**La Foucade A, Gabriel S, Beharry V, Laptiste C, Metivier C, Samuels TA, Theodore K, Edwards-Wescott P. (2022).** "Assessing the determinants of unhealthy dietary habits among a sample of survey participants in Jamaica." *Rev Panam Salud Publica*. 2022 Aug 25;46:e72. doi: 10.26633/RPSP.2022.72. PMID: 36042708; PMCID: PMC9409606.

**La Foucade A, Gabriel S, Laptiste C, Metivier C, Beharry V, Scott E, Theodore K. (2022).** "Sociodemographic and dietary influences on perceptions of eating habits in Jamaica." *Rev Panam Salud Publica*. 2022 Aug 25;46:e66. doi: 10.26633/RPSP.2022.66. PMID: 36042706; PMCID: PMC9409608.

Andrea Alcaraz, Ariel Esteban Bardach, Natalia Espinola, Lucas Perelli, Federico Rodriguez Cairoli, **Althea La Foucade**, Cid Manso de Mello Vianna, Giovanni Guevara, **Kimberly-Ann Gittens-Baynes**, Paula Johns, **Vyjanti Beharry**, Darío Javier Balán. (2023). "Health and Economic Burden of Disease of Sugar-Sweetened Beverage Consumption in Four Latin American and Caribbean Countries: A Modelling Study." *BMJ Open*.

Henry H. Bailey, Mathieu F. Janssen, Fareena M. Alladin, **Althea La Foucade**, Rodrigo Varela, Jhon A. Moreno, Marjorie Wharton, Philip Castillo & Girjanauth Boodraj. (2022) "Evaluating Health Inequality in Five Caribbean Basin Countries Using EQ-5D-5L." *Appl Health Econ Health Policy* **20**, 857–866 . <https://doi.org/10.1007/s40258-022-00754-9>

## Conference Presentations

**K. Theodore, C. Laptiste, A. La Foucade, E. Scott, C. Metivier, M. Maharaj, R. Brizan- St. Martin. K. Gittens-Baynes, P. Edwards-Wescott, H. Harewood and V.Beharry. (2023)** Considerations on Targeted Interventions in the Health System to Address the Traditional Underfinancing of EPHS: Lessons Learnt from the Caribbean Experience. World NCD Congress. Toronto, Canada, June.

**K. Theodore, C. Laptiste, and A. La Foucade (2023).** Financing Essential Public Health Functions for Addressing the NCD Problem in the Caribbean Region: Considering a New Approach. World NCD Congress. Toronto, Canada, June

**C. Laptiste (2023).** Costing in Healthcare. Trinidad and Tobago Chamber of Commerce, Health Technology Assessment for Healthcare Decision-making in Trinidad and Tobago Forum. Hyatt Regency Hotel, Port-of-Spain, February.

**D. Bethelmie, V. Beharry and S. Gabriel** (2023). Robustness Tests Results for different measures of the Multidimensional Poverty Index (MPI) for Trinidad and Tobago. MSDFS & UNDP Forum for Government Ministries. Virtual Platform, February.

**C. Metivier** (2022). Agenda Items for the Promotion of Food Security in Caribbean SIDS: Sustainable Development Imperatives – Nutrition and Health. SALISES 13th Virtual Forum. Virtual Platform, November.

**S. Lalta, C. Metivier, P. Edwards-Wescott** (2022). Health Financing Progress Matrix: Suriname. PAHO/WHO, Health Financing Progress Workshop. Paramaribo, Suriname, October.

**S. Gabriel** (2022). Sociodemographic and Dietary Influences on Perceptions of Eating Habits in Jamaica. 66th Annual CARPHA Health Research Conference. AC Marriott Hotel, Kingston Jamaica, September.

**S. Lalta, C. Metivier, P. Edwards-Wescott** (2022). Health Financing Progress Matrix: St Vincent. PAHO/WHO, Health Financing Progress Workshop. Kingstown, St. Vincent, August.

## Institute for Gender & Development Studies (IGDS)

### Books & Book Chapters

**Nixon, A.** (2023). “Decolonial Poetics and Queer Resistance in Anglophone Afro-Caribbean Women’s Literature.” *African American Literature in Transition*, 1980–1990. Eds. D. Miller & R. Blint. Cambridge: Cambridge University Press. pp. 187-211. DOI: <https://doi.org/10.1017/9781009179355.011>

## Other Publications

### PUBLISHED PEER REVIEWED JOURNAL ARTICLE

Rodney, Ruth, Sireesha Bobbili, Gabrielle Hosein, and Emmanuelle Cummings. (2023). “Intersections of Women as Survivors: Disclosures of Violence and Global Research Standards in Guyana and Trinidad and Tobago” *Social Sciences* 12, no. 1: 31. <https://doi.org/10.3390/socsci12010031>

### NEWSPAPER

Nixon, A. “Fighting for Our Lives, Our Rights, Our Bodies: Reproductive and Sexual Rights and Justice in the Caribbean.” *Stabroek News*. 15 August 2022.

### IGDS TOOLKIT

Break the Silence end child sexual abuse Bilingual Facilitators Toolkit for Guyana and Trinidad and Tobago Published November 2022, The University of the West Indies, The Institute for Gender and Development Studies, St Augustine Campus, Trinidad and Tobago © IGDS 2022, November 2022

### INVITED/PLENARIES

A Nixon. Invited Speaker. “Action Based Research and CSO Engagement.” UN Women and CARICOM Regional Training Workshop for Qualitative Approaches and Methods for the Collection of Data on Violence Against Women and Girls in CARICOM and the OECS. Online via Zoom. 18-19 April 2023.

A Nixon. Featured Panelist. “Caribbean Sex Workers through Historical and Contemporary Lenses.” Institute for Gender and Development Studies, Regional Coordinating Office. International Women’s Day and Women’s HerStory Events. Live on UWI TV. 8 March 2023.

# PUBLICATIONS AND CONFERENCES

ONLINE ONLY

A Nixon. Invited Speaker and Expert Stakeholder. Caribbean Regional Dialogue on LGBTQI+ D.A.T.A. (Driving Analytical, Transformative Action). Barbados. 15-17 September 2022

## Institute of International Relations (IIR) Journal Publications

Adams, Michael, and Michal Pawinski. (2022). "When Caliphate Cubs Become Carnival Combatants: The Threat Posed by Returning Foreign Fighters in Trinidad and Tobago and the Need for Mitigation and Preparedness." *Small States & Territories Journal* 5 (2): 269–292.

Biermann, Frank, Jeroen Oomen, Aarti Gupta, Saleem H. Ali, Ken Conca, Maarten A. Hajer, Prakash Kashwan, Louis J. Kotzé, Melissa Leach, Dirk Messner, Chukwumerije Okereke, Åsa Persson, Janez Potočnik, David Schlosberg, Michelle Scobie, and Stacy D. VanDeveer. (2022). "Solar Geoengineering: The Case for an International Non-use Agreement." *WIREs Climate Change* 13 (3) <https://doi.org/10.1002/wcc.754>

Borja, Angel, Johannes Karstensen, Michelle Scobie, and Michele Barbier. 2022. "Editorial: Ocean Sciences and Ethics." *Frontiers in Marine Science* 9 (March). <https://doi.org/10.3389/fmars.2022.871856>

Karlsson-Vinkhuyzen, Sylvia, Katharina Rietig, and Michelle Scobie. (2022). "Agency dynamics of International Environmental Agreements: actors, contexts, and drivers." *International Environmental Agreements: Politics, Law and Economics*. 22 (2): 353-372. <https://doi.org/10.1007/s10784-022-09571-w>

Matthews, Luke J., Aaron Clark-Ginsberg, Michelle Scobie, Laura E. Peters, Unni Gopinathan, Anuszká Mosurska, Katy Davis, Sonja Myhre, Saskia Hirsch, Eija Meriläinen and Ilan Kelmanet. (2023). "Collective Action by Community Groups: Solutions for Climate Change or Different Players in the Same Game?" *Climate and Development* 15 (8): 679–691. <https://doi.org/10.1080/17565529.2022.2149254>.

Scobie, Michelle. (2022). "Sustainable Development Goals and Sustainability Governance: Norms, Implementation Pathways and Caribbean Small Island Developing States." *Global Policy* 13 (2):219-234. doi: 10.1111/1758-5899.13050.

## Books & Book Chapters

Laguardia-Martinez, Jacqueline, Mark Kirton, and Marlon Anatol. (2022). "A Decade of the Community of Latin American and Caribbean States: Assessing CELAC's Contribution to Regional Integration." In *The Changing Political and Socio-Economic Environment in the Caribbean and Latin America: Prospects and Challenges*, edited by Mark Kirton, Paulo Correa and Marlon Anatol, 29–53. Rio Branco, Portugal: Nepan Editora.

Llanos, Andrea Ordóñez, Rob Raven, Magdalena Bexell, Brianna Botchwey, Basil Bornemann, Jecel Censoro, Marius Christen, Liliana Díaz, Thomas Hickmann, Kristina Jönsson, Imme Scholz, Michelle Scobie, Yixian Sun, John Thompson, John Thwaites and Abbie Yunita. (2022). "Implementation at Multiple Levels." In *The Political Impact of the Sustainable Development Goals: Transforming Governance Through Global Goals*, edited by Frank Biermann, Thomas Hickmann and Carole-Anne Senit, 59-91. Cambridge, United Kingdom: Cambridge University Press. <https://doi.org/10.1017/9781009082945>

Montoute, Annita, Jessica Byron. (2023). "The Role of Churches in Regional Cooperation and Governance in the Caribbean." In *Handbook of Civil Society and Social Movements in Small States*, edited by Sheila S. Bunwaree, Claire Slatter, Michael Briguglio, and Lino Briguglio, 189–203. London, United Kingdom: Routledge.

Nilsson, Måns, Marjanneke J. Vijge, Ivonne Lobos Alva, Basil Bornemann, Karin Fernando, Thomas Hickmann, Michelle Scobie and Sabine Weiland. (2022). In *The Political Impact of the Sustainable Development Goals: Transforming Governance Through Global Goals*, edited by Frank Biermann, Thomas Hickmann and Carole-Anne Senit, 92-115. Cambridge, United Kingdom: Cambridge University Press.

Scobie, Michelle, and Ricardo Reboredo. (2023). "Climate Change, Norm Dynamics and the Agency of SIDS." In *Norm Diffusion beyond the West: Agents and Sources of Leverage*, edited by Sárka Kolmasová, 125–41. Cham, Switzerland: Springer.

Seerattan, Dave. (2023). "Hurricane Clauses in Debt Contracts in the Context of Unsustainable Debt in Barbados and Grenada." In *Innovative Financing Instruments in Latin America and the Caribbean*, edited by Esteban Pérez Caldentey and Francisco G. Villarreal, 119-136. Santiago, Chile: United Nations.

Seerattan, Dave. (2023). "Optimal Foreign Exchange Reserves in Small Open Economies: The Case of the Caribbean." In *Foreign Exchange Constraint and Developing Economies*, edited by Aleksandr V. Gevorkyan, 149-166. Northampton, Massachusetts: Edward Elgar Publishing.

## Conference, Keynote & Panel Presentations

G. Chami, (2023) "ICT in Higher Education: Opportunities and Challenges." 20th Annual Conference of the Association of Caribbean Higher Education Administrators (ACHEA), Higher Education Administration, Negril, Jamaica, July 6-8.

G. Chami, Co author, "Child Abuse and Protection in Trinidad and Tobago." Panel Presentation at the 2022 Annual Caribbean Child Research Conference, Child Rights and Well-Being in Selected Caribbean Societal Settings - Findings from the Rights for Children and Youth Partnership (RCYP) Project., Virtual Presentation, 24th – 25th November 2022.

G. Chami, (2022) Co-author, "Facing the Reality of Child Abuse and Protection in Trinidad and Tobago." UWI-Toronto Metropolitan University RCYP Conference, The Wellbeing of Children and Young People in Central America and the Caribbean, Virtual Presentation, 19 – 21, October.

M. J. Laguardia, (2023) "Territorial Management for Adaptation, Climate Change Mitigation and Disaster Risk Management with a Gender and Intersectional Approach in Island Territories." Keynote speaker at the International Seminar on the topic Los PEID del Caribe ante el cambio climático: Proyección internacional y rol de las mujeres, June 27-29, Varadero, Cuba.

M. J. Laguardia, (2023) "Impactos de la COVID-19 en las Mujeres Caribeñas." Una Mirada Hacia la Igualdad de Género desde las Políticas Públicas en el Caribe Anglófono, 2023 LASA Virtual Congres, May 24-27.

# PUBLICATIONS AND CONFERENCES

## ONLINE ONLY

M. J. Laguardia, (2023) "Organismos Internacionales Gubernamentales en el Mundo Hispanoamericano." Guest Lecturer for postgraduate students at the Postgraduate Certificate of Competence: Advanced Spanish for Diplomacy and International Relations, Centre for Professional Development and Lifelong Learning at Cave Hill campus, May 15.

M. J. Laguardia, (2023) "The Role of CARICOM in a Globalizing World" Guest Lecturer for postgraduate students at the Department of International Affairs/Diplomacy, International College, Ming Chuan University, Taiwan, May 10.

M. J. Laguardia, (2023) "El Caribe en el Siglo XXI: Cuba, Haití y Barbados." Ciclo de Conferencias Caribeñas 32, Institute of Caribbean Studies, Universidad de Puerto Rico, Río Piedras, April 27.

M. J. Laguardia, (2023) "Climate justice and environmental challenges for the Caribbean." SCS Annual Postgraduate Conference, Society for Caribbean Studies UK, April 22.

M. J. Laguardia, (2023) "Perspectivas y Propuestas para Renovar la Asociación Estratégica entre la Unión Europea y América Latina y el Caribe." Participant in the Dialogue between European, Latin American and Caribbean Research Centres and Decision Makers organized by the Fundación Carolina and Fundación EU-LAC, Madrid, April 3-4.

M. J. Laguardia, (2023) "Actualidad y Perspectivas en las Relaciones Cuba-CARICOM", Scientific Session, Cátedra de Estudios del Caribe 'Norman Girvan', University of Havana, La Habana, January 27.

M. J. Laguardia, (2022) "Participación del Caribe insular en la IX Cumbre de las Américas", XVI International Conference of Caribbean Studies Cuba y el Caribe: 50 años de relaciones, Cátedra de Estudios del Caribe 'Norman Girvan', Havana, December 14-16.

M. J. Laguardia, (2022) "La IX Cumbre de las Américas y su impacto en el Caribe insular", VII Conferencia de Estudios Estratégicos, Centro de Investigaciones de Política Internacional (CIPI), Havana, October 26-28.

A. Montoute (2023) "Social Movements Interpretations of the COVID-19 Pandemic", Sixteenth Global Studies Conference, Oxford Brookes University, UK, July 19 - 20.

A. Montoute (2023) Co-authored report "Gender Impact of China's Global Engagement in the Global South", Report presented at DAWN project, Bangkok, Thailand, June 9 – 10.

A. Montoute (2022) "Social and Cultural Dynamics", Dynamics of Africa – Caribbean Engagements, Institute of Institute of International Relations in collaboration with the Caribbean Policy Consortium, September 8.(webinar)

K. Niles, (2023). "Climate Change and Transatlantic Slavery: Uncomfortable Parallels and Uncertain Futures". PAERC 5th International Conference, Transition and Trajectories in Pan African Development, Trinidad and Tobago, July 28, 2023.

K. Niles, (2023). "Building Music Catalogues for Library Placement: Unlocking Opportunities for Music Licensing." Moderator at the RVRB X, MusicTT, Trinidad & Tobago, July 19, 2023.

K. Niles, (2023) Speaker at "Advancing Sustainability Science and



Innovation in Latin America". Hosted by the National Secretariat of Science, Technology and Innovation of the Republic of Panama and the Executive Committee of the Sustainability Research and Innovation 2023 Congress (SRI2023). June 26th.

K. Niles, (2023) Guest Speaker at ESG Conference 2023. Hosted by the American Chamber of Commerce of Trinidad and Tobago "Environmental, Social and Governance Issues in the Creative Sector", ESG Conference 2023. Hosted by the American Chamber of Commerce of Trinidad and Tobago, 2 May .

M Pawinski, (2023) "The Caribbean ISIS Migrants: Challenges to the Repatriation, Reintegration, and Prevention of Future Recidivism.", at 10th European Workshops in International Studies, European International Studies Association, July 12th – 14th.

D Seerattan (2022) "Optimal foreign-exchange reserves in small open economies: the case of the Caribbean," 49th Annual Conference of the Eastern Economic Association, Sheraton New York Hotel and Towers, New York City, USA, February 23 – 27, 2023.

D Seerattan (2022) "Global Economic Shocks: Challenges for the Trinidad and Tobago Economy" Conference hosted by the Ministry of Finance, Trinidad and Tobago at the Hyatt Hotel, Port of Spain on September 2.

## Other Publications

### EDITED BOOKS

Chami, Georgina, Jerome Teelucksingh, and Marlon Anatol, ed. 2022. *Managing new security threats in the Caribbean*. Basingstoke, United Kingdom: Palgrave Macmillan.

### ESSAYS AND COMMENTARIES

Bardouille Nand. 2023. "CARICOM's Evolving Foreign Policy Thinking on the Ukraine War", Geopolitical Monitor, January 19. <https://www.geopoliticalmonitor.com/caricoms-evolving-foreign-policy-thinking-on-the-ukraine-war/>

Bardouille Nand. 2023. "CARICOM's Foreign Policy Standpoint on the Ukraine War, One Year into the Conflict", European University Institute, blog, March 8. <https://blogs.eui.eu/latin-american-working-group/caricoms-foreign-policy-standpoint-on-the-ukraine-war-one-year-into-the-conflict/>

Bardouille Nand. 2022. "CARICOM States Contend with a New Era of Great-power Rivalry", LSE Latin America and the Caribbean, blog, September 8. <https://blogs.lse.ac.uk/latamcaribbean/2022/09/08/caricom-states-contend-with-a-new-era-of-great-power-rivalry/>

Bardouille Nand. 2022. "A compendium of four articles on what the Russia-Ukraine war means for the CARICOM bloc" KITLV, blog, November 8. <https://www.kitlv.nl/blog-a-compendium-of-four-articles-on-what-the-russia-ukraine-war-means-for-the-caricom-bloc/>

Bardouille Nand. 2022. "The Russia-Ukraine War and Two Interrelated Ways to Think about CARICOM States' Associated Diplomacy" *The Global Americans*, October 26. <https://theglobalamericans.org/2022/10/the-russia-ukraine-war-and-two-interrelated-ways-to-think-about-caricom-states-associated-diplomacy/>

Bardouille, Nand. 2022. "Saint Vincent and the Grenadines' Diplomatic Efforts During the Latest Taiwan Strait Flare-Up." *The Diplomat*, September 22. <https://thediplomat.com/2022/09/saint-vincent-and-the-grenadines-diplomatic-efforts-during-the-latest-taiwan-strait-flare-up>

# PUBLICATIONS AND CONFERENCES

ONLINE ONLY

Bardouille Nand. 2023. "UK-Caribbean Partnership Takes on Safe Bets, Confronts New Realities", *Geopolitical Monitor*, May 3. <https://www.geopoliticalmonitor.com/uk-caribbean-partnership-takes-on-safe-bets-confronts-new-realities/>

Bardouille Nand. 2022. "Whither CARICOM States' Interests in a New Age of Great-Power Geopolitics?" United Nations University Institute on Comparative Regional Integration Studies (UNU-CRIS), November 3. <https://cris.unu.edu/whither-caricom-states%E2%80%99-interests-new-age-great-power-geopolitics>

Laguardia, Jacqueline. 2023. "El Caribe ante la III Cumbre UE-CELAC." Opinion piece in *CLACSO en la III Cumbre UE-CELAC 2023*, July 5. <https://www.clacso.org/clacso-en-la-iii-cumbre-ue-celac-2023/>.

Laguardia, Jacqueline. 2023. "Impactos Económicos de la COVID-19 en los PEID Caribeños: Desafíos al Desarrollo y Estrategias para la Recuperación." In *Proyecto El Caribe y los Desafíos ante los Efectos del COVID-19*, edited by Wilson Enrique Genao and Antonino Vidal Ortega, 11-32. Santo Domingo: Pontificia Universidad Católica Madre y Maestra.

Laguardia, Jacqueline. 2023. "Jamaica en el Siglo XXI: Retos y Posibilidades." In *Historia Contemporánea de América Latina y el Caribe*, edited by Álvaro García Linera, Emir Sader, René Ramírez, and Marcio Pochmann, 375–388. Madrid: Akal.

Laguardia Martinez, Jacqueline. 2022. "La IX Cumbre de las Américas y su impacto en el Caribe", *Cuadernos de Nuestra América* 6: 294 – 303. <http://www.cna.cipi.cu/cna/article/view/134>

Laguardia Martinez, Jacqueline and Annita Montoute. 2022. "Lula is back, and Latin America with him." *UWI Today*, December 11.

Montoute, Annita. 2023. "China in Latin America and the Caribbean." *UWI Today*, February 19.

## Seismic Research Centre (SRC) Journal Publications

Barclay, Jenni., Cortes, Gloria Patricia., Mothes, Patty., Robertson, Richard., Hicks, Anna. (March 2023). "Volcanoes and people: Partnerships for the SDGs." *Geoscientist*, Spring 2023, Volume 33, Number 1, pp 20-24 Feature Article.

Barclay, Jenni., Robertson, Richard., Armijos, M. Teresa. (February 2023). "Scientists as Story-tellers: the explanatory power of stories told about environmental crises." *EGUsphere*-2023-71. <https://doi.org/10.5194/egusphere-2023-71>

Camejo-Harry, Michal., Pascal, Karen., Euillades, Pablo., Grandin, Raphaël., Hamling, Ian., Euillades, Leonardo., Contreras-Arratia, Rodrigo., Ryan, Graham A., Latchman, Joan L., Lynch, Lloyd., Jo, Minjeong. (February 2023). "Monitoring volcano deformation at La Soufrière, St Vincent during the 2020–21 eruption with insights into its magma plumbing system architecture." *Geological Society*, London, Special Publications. Volume 539 <https://doi.org/10.1144/SP539-2022-270>

Cole, Paul D., Barclay, J., Robertson, R. E. A., Mitchell, Sam., Davies, B.V., Constantinescu, R., Sparks, R. S. J., Aspinall, W., Stinton, A. (January 2023). "Explosive sequence of La Soufrière, St Vincent, April 2021: insights into drivers and consequences via eruptive products." *Geological Society*, London, Special Publications. Volume 539. <https://doi.org/10.1144/SP539-2022-292>

Constantinescu, Robert., White, J.T., Connor, C., Cole, P., Fontijn, K., Barclay, J., Robertson, R. (May 2023). "Estimation of eruption source parameters for the 2021 La Soufrière eruption (St Vincent): implications for quantification of eruption magnitude on volcanic islands." *Geological Society*, London, Special Publications. Volume 539. <https://doi.org/10.1144/SP539-2023-38>

Contreras-Arratia, Rodrigo. (November 2022). "Are earthquake locations reliable in caldera structures?" *Journal of Volcanology and Geothermal Research*. Volume 431. <https://doi.org/10.1016/j.jvolgeores.2022.107665>

Delgado, Francisco., Contreras-Arratia, Rodrigo., Samsonov, Sergey. (July 2022) "Magma buoyancy drives rhyolitic eruptions: A tale from the VEI 5 2008-2009 Chaitén eruption (Chile) from seismological and geodetic data." *Earth and Planetary Science Letters*, Volume 590. <https://doi.org/10.1016/j.epsl.2022.117564>

Esse, Ben., Burton, Mike., Hayer, Catherine., Contreras-Arratia, Rodrigo., Christopher, Thomas., Joseph, Erouscilla P., Varnam, Matthew., Johnson, Chris. (August 2022). "SO<sub>2</sub> emissions during the 2021 eruption of La Soufrière, St Vincent, revealed with back-trajectory analysis of TROPOMI imagery." *Geological Society*, London, Special Publications. Volume 539. <https://doi.org/10.1144/SP539-2022-77>

Frey, Holli M., Manon, Matthew R., Barclay, Jenni., Davies, Bridie V., Walters, Sydney A., Cole, Paul D., Christopher, Thomas E., Joseph, Erouscilla P. (February 2023). "Petrology of the explosive deposits from the April 2021 eruption of La Soufrière volcano, St Vincent: a time-series analysis of microlites." *Geological Society*, London, Special Publications. Volume 539. <https://doi.org/10.1144/SP539-2022-291>

Graham, Omari., Edwards, Stacey., Robertson, Richard E. A. (July 2022). "More than a warning: Expanding the role of communication in Eastern Caribbean volcano science." The UWI Seismic Research Centre. *Frontiers in Earth Science* 10. DOI: 10.3389/feart.2022.907559

Graham, Omari., Edwards, Stacey., Robertson, Richard. (July 2022). "More than a warning: Expanding the role of communication in Eastern Caribbean volcano science." *Frontiers in Earth Science*. <https://doi.org/10.3389/feart.2022.907559>

Graham, Omari., Thomas, Thalia., Hicks, Anna., Edwards, Stacey., Juman, Alia., Ramroop, Arti., Robertson, Richard. (January 2023). "Facts, faith and Facebook: science communication during the 2020–21 La Soufrière, St Vincent volcanic eruption." *Geological Society*, London, Special Publications. Volume 539. <https://doi.org/10.1144/SP539-2022-289>

Hickey, J; Pascal, Karen; Head, Matthew; Gottsmann, J; Fournier, Nico; Hreinsdottir, S; Syers, R; "Magma pressurization sustains ongoing eruptive episode at dome-building Soufrière Hills volcano, Montserrat." *Geology*, 50,11,1261-1265, 2022, Geological Society of America.

Johnson, Alexander., Hickey, James., Pascal, Karen., Williamson, Ben. J., Syers, Racquel. (August 2023). "Distinguishing shallow from mid-crustal magmatic processes at Soufrière Hills Volcano using Finite Element Modelling and co-analysis of EDM and GPS data." *Volcanica*, Volume 6, Number 2, pp. 265–282. doi: 10.30909/vol.06.02.265282.

# PUBLICATIONS AND CONFERENCES

ONLINE ONLY

Johnson, Alexander; Hickey, James; Pascal, Karen; Williamson, Ben; Syers, Raquel; "Distinguishing shallow from mid-crustal magmatic processes at Soufrière Hills Volcano using Finite Element Modelling and co-analysis of EDM and GPS data." *Volcanica*, 6, 2, 265-282, 2023,

Joseph, E. P., Camejo-Harry, M., Christopher, T., Contreras-Arratia, R., Edwards, S., Graham, O., Johnson, M., Juman, A., Latchman, J. L., Lynch, L., Miller, V. L., Papadopoulos, I., Pascal, K., Robertson, R., Ryan, G. A., Stinton, A., Grandin, R., Hamling, I., Jo, M.-J., Barclay, J., Cole, P., Davies, B. V., Sparks, R. S. J. (July 2022). "Responding to eruptive transitions during the 2020–2021 eruption of La Soufrière volcano, St. Vincent." *Nature Communications*. Volume 13, Number 4129. DOI: 10.1038/s41467-022-31901-4

Latchman, Joan L., Aspinnall, Willy. (June 2023). "La Soufrière volcano, St Vincent, eruption 2020–21: assessing unrest and eruptive states from limited volcano-seismic data." *Geological Society*, London, Special Publications. Volume 539. <https://doi.org/10.1144/SP539-2022-223>

Latchman, Joan L., Dondin, Frederic J.-Y., Robertson, Richard E. A., Stewart, Roderick, Smith, Paddy, Lynch, Lloyd L., Ramsingh, Chandradath., Nath, Nisha., Ramsingh, Hannah., Juman, Ian., Edwards, Stacey., Ash, Cleveon. (May 2023). "Contrasting T-Phase and P-Wave Patterns from the 2015 and 2017 Eruptions of the Submarine Volcano Kick-em-Jenny: Influence of Cardinal Direction on Recorded First Phase Arrival." *Bulletin of the Seismological Society of America*, Volume 113 Number 5: 2056–2068. <https://doi.org/10.1785/0120220101>

Mani, Lara., Edwards, Stacey., Joseph, Erouscilla., Juman, Alia., Thomas, Thalia. (April 2023). "Evaluating the crisis communications campaign during the 2020–21 eruption of La Soufrière, St Vincent." *Geological Society*, London, Special Publications. Volume 539. <https://doi.org/10.1144/SP539-2022-297>

Metcalf, A., Moune, S., Komorowski, J.-C., Robertson, R., Christopher, T. E., Joseph, E. P., Moretti, R. (May 2023). "Diverse magma storage and major and volatile magma composition: What are the implications on the eruptive style across a volcanic arc? An example of the Lesser Antilles Arc." *Earth-Science Reviews*, Volume 241, June 2023, 104440. <https://doi.org/10.1016/j.earscirev.2023.104440>

Papadopoulos I., Manzano J., Reddock K., Latchman J.L. (2023). "The Trinidad and Tobago Microzonation Project: San Fernando." *Geophysical Journal International*, Volume 233, Issue 3, June 2023, Pages 1727–1745, <https://doi.org/10.1093/gji/ggad013>

Phillips, Jeremy., Barclay, Jenni., Cole, Paul., Johnson, Monique., Miller, Victoria., Robertson, Richard. (August 2023). "Impacts and prospective hazard analysis of rainfall-triggered lahars on St Vincent 2021–22." *Geological Society*, London, Special Publications. Volume 539. <https://doi.org/10.1144/SP539-2022-313>

Robertson, Richard E. A., Barclay, Jenni., Joseph, Erouscilla., Sparks, R. S. J. (June 2023) "An overview of the eruption of La Soufrière Volcano, St Vincent 2020–21." *Geological Society*, London, Special Publications. Volume 539. <https://doi.org/10.1144/SP539-2023-95>

Sparks, Steve R. J., Aspinall, Willy P., Barclay, Jenni., Renfrew, Ian. A., Contreras- Arratia Rodrigo., Stewart, Roderick. (February 2023) "Analysis of magma flux and eruption intensity during the 2021 explosive activity at La Soufrière, St Vincent." *West Indies Geological Society*, London, Special Publications. Volume 539 <https://doi.org/10.1144/SP539-2022-286>

Stinton, Adam J. (March 2023). "Growth and evolution of the lava dome and coulée during the 2020–21 eruption of La Soufrière, St Vincent." *Geological Society*, London, Special Publications. Volume 539. <https://doi.org/10.1144/SP539-2022-304>

Thompson, James O., Contreras-Arratia, Rodrigo., Befus, Kenneth S., Ramsey, Michael S. (August 2022). "Thermal and seismic precursors to the explosive eruption at La Soufrière Volcano, St. Vincent in April 2021." *Earth and Planetary Science Letters*, Volume 592. <https://doi.org/10.1016/j.epsl.2022.117621>

## Presentations & Keynotes

E. Joseph and R. Robertson. "Crisis, Covid, and Communication: Experiences from the 2020-2021 Eruption of La Soufriere, St Vincent." (2023) Volcanic and Magmatic Studies Group (VMSG) Workshop on Researchers Responding to Volcanic Crises: Uncertainty, Imagination, and Improving Best Practice for Collaboration". 3rd July, . Keynote Presentation.

E. Joseph. (2023) Volcanism in the Eastern Caribbean: Hazards, Monitoring, Challenges and Lessons Learnt. SSA 2023: 17 – 21 April, San Juan, Puerto Rico. Keynote Speaker.

Christa von Hillebrandt-Andrade, Valerie Clouard, Jelis J. Sostre-Cortés, Elizabeth Vanacore, Bernardo Aliaga, Mike Angove, Nicolas Arcos, Silvia Chacón-Barrantes, Francisco Dourado, Octavio Gomez-Ramos, Erouscilla Joseph, Laura Kong, Lloyd Lynch, Charles McCreery, Dan McNamara Raphael Paris, Lizzette Rodriguez, Roy Watlington. (2023) Integrating Volcanic Sources into the Tsunami Warning System for the Caribbean and Adjacent Regions. SSA 2023: 17 – 21 April, San Juan, Puerto Rico. Oral Presentation.

B. Esse, M. Burton, C. Hayer, R. Contreras-Arratia, T. Christopher, E. P. Joseph, M. Varnam, C. Johnson. (2023) SO<sub>2</sub> emissions during the 2021 eruption of La Soufrière St. Vincent, revealed with back-trajectory analysis of TROPOMI imagery. International Association of Volcanology and Chemistry of the Earth's Interior (IAVCEI) Conference, 30 January – 3 February, Rotorua, New Zealand. Oral Presentation.

Swetha Venugopal, Severine Moune, Thomas Christopher, Glyn Williams-Jones, Erouscilla Joseph. (2023). "Signatures of sediment input and mantle heterogeneity recorded in melt inclusions from the Lesser Antilles." International Association of Volcanology and Chemistry of the Earth's Interior (IAVCEI) Conference. 30 January – 3 February, 2023, Rotorua, New Zealand. (Poster)

E. Joseph. (2023) VIII Regional Platform for Disaster Risk Reduction in the Americas and the Caribbean: "Science and Technology for the Comprehensive Management of Disaster Risk" (PR23) Punta del Este, Uruguay, February 28 to March 2, . SRC Representative.

# PUBLICATIONS AND CONFERENCES

## ONLINE ONLY

Sostre-Cortes, Jelis, Elizabeth A. Vanacore, Christa von Hillebrandt-Andrade, Roy A. Watlington, Erouscilla P. Joseph, Francisco Dourado, Benjamin Colon-Rodriguez et al. (2022) "Characterizing Tsunami Signals from the Hunga Tonga Hunga Ha'apai Eruption and its Effects on the Caribbean." In AGU Fall Meeting Abstracts, vol. , pp. NH22C-0426. 2022. Oral Presentation

E. Joseph. (2022) "Integrating Private Sector on Multi-Hazard Early Warning Systems' Governance and Actions. Regional Consultation among Chambers of Industry and Commerce, Regional and National Disaster Risk Management Offices, and Meteorological Agencies in the Caribbean region." Saint George's, Grenada - November 21-23. SRC Representative

Erouscilla Joseph. (2022.) "From 1971-2021: 50 years of unpacking and addressing volcanic risks and impacts in the Caribbean." 12th Caribbean Conference on Comprehensive Disaster Management: 7 – 9 December 2022, Bridgetown, Barbados. Keynote Speaker.

Pascal K. Joseph E., Barclay J. MVO and SRC staff. *Vivre au rythme des Soufrières de Montserrat et St Vincent: Un partenariat entre observatoires volcanologiques, pouvoirs publics et communautes* (2023). Conference "St Pierre: mieux vivre à l'ombre de la Montagne Pelée", St Pierre (Martinique), co-organized by Mairie de St Pierre and Observatoire Volcanologique et Sismologique de Martinique/Institut de Physique du Globe de Paris. (Invited Talk)

Pascal K., MVO and SRC staff. *Volcano-deformation monitoring and modelling. Examples of Soufrière Hills (Montserrat) and La Soufrière (St Vincent) volcanoes* (2023). Cape Verde Training Course on Volcano Monitoring (Project VOLRISKMAC II), organized by Universidade de Cabo Verde and the Instituto volcanológico de Canarias (INVOLCAN), Tenerife. (Invited Talk)

Hickey J., Pascal K., Head M., Gottsmann J., Fournier N., Hreinsdottir S., Syers R. *Can we help optimise volcano GPS networks using stress-based numerical modelling* (2023). International Association of Volcanology and Chemistry of the Earth's Interior (IAVCEI) conference, Rotorua, New Zealand. (Poster)

Pascal K., Syers R., Camejo-Harry M. (2022) "Aporte de la Geodesia en la evaluación de crisis volcanicas en Montserrat y St Vincent." Tercera Reunión Operativa de la Asociación Latinoamericana de Geodesia GEOVOL (Talk)

## Other Publications

### TECHNICAL REPORTS

A Stinton, V Bass, T Christopher, M Fergus, J. Marrero, K Pascal, G Ryan, R Stewart, R Syers, P Williams, K Barzey (2022). "MVO Scientific Report for Volcanic Activity between 1 April and 30 September 2022." MVO Open File Report 22-03, 29 November 2022, 89p

### PRESS RELEASES AND NON-REFEREED ARTICLES

UWI on the Ground: "UWI Seismic Research Centre: Monitoring earthquakes, volcanoes for 70 years" *Trinidad Newsday*, 2nd April 2023.

## Sir Arthur Lewis Institute of Social & Economic Studies (SALISES) Conference & Other Presentations

**Mohan, P.** 2023. "Implementing Nationally Determined Contributions: an assessment of climate finance in Caribbean SIDS." SALISES Spotlight Event, 3rd February 2023.

**Ghany, H.A.** "The Fortieth Anniversary of the Demise of the Grenada Revolution: The collapse of the People's Revolutionary Government in 1983." Paper presented at the Annual SALISES Conference 3rd – 5th May, 2023, Learning Resource Centre, UWI St. Augustine Campus, Trinidad.

**Parey, B.** 2023. "Parental involvement among parents with disabilities in Trinidad: Online and face-to-face education settings." SALISES 24th Annual Conference. 03-05/05/2023.

**Parey, B.** 2023. "Equal Opportunity for Persons with Disabilities in Trinidad and Tobago: Challenges and Recommendations", Virtual Presentation. SALISES Spotlight Series. 14/04/2023.

**McCree, R.** 2023. "From Residualism to Instrumentalism: Social Policy, Independence and the State in Caribbean", Paper presented at the 24th Annual SALISES Conference, May 2-5, 2023, the University of the West Indies, St. Augustine, Trinidad.

**Ghany, H.A.** "Eric Williams and Black Power Declassified", Paper presented at the Fiftieth Anniversary of the Black Power Revolution in Trinidad and Tobago, Trinidad, 20th and 21st April, 2023, Daaga Auditorium, UWI, St. Augustine Campus,

**St. Bernard, G.** 2023. "Championing Development Statistics: A Vow that I Kept", SALISES Spotlight Lecture #4, July 26th.

**St. Bernard, G.** 2023. "Characterising the Lives and Living Experiences of Welfare Recipients and their Households – The Case of the Public Assistant Grant of Trinidad and Tobago", Fourth Regional Mixed Methods Conference 2023, School of Education, The University of the West Indies, Trinidad and Tobago, July 10-12, 2023.

**St. Bernard, G.** 2023. "Femicide Trends and Patterns in Trinidad and Tobago, 2000-2019", 47th Annual Conference of the Caribbean Studies Association, The University of the Virgin Islands, St. Croix, United States Virgin Islands, 30 May – June 3, 2023 (with Akeisha Alexis St. Hilaire).

**St. Bernard, G.** 2023. "Methodological Issues in Measuring the Stock of Produced Capital in Trinidad and Tobago", 24th Annual SALISES Conference, Learning Resource Centre, The University of the West Indies, St. Augustine, Trinidad and Tobago, May 3-5, 2023 (with Shari Johnson, Zakaria Zoundi, Rob Smith and Livia Bizikova).

**St. Bernard, G.** 2023. "Methodological Issues arising from the Development of a Natural Capital Index for Trinidad and Tobago", 24th Annual SALISES Conference, Learning Resource Centre, The University of the West Indies, St. Augustine, Trinidad and Tobago, May 3-5, 2023 (with Semone Armorgan, Zakaria Zoundi, Rob Smith and Livia Bizikova).

**St. Bernard, G.** 2023. "Economic Growth, Economic Development and Prosperity: Alternative Disciplinary Perspective", 24th Annual SALISES Conference, Learning Resource Centre, The University of the West Indies, St. Augustine, Trinidad and Tobago, May 3-5, 2023.

# PUBLICATIONS AND CONFERENCES

ONLINE ONLY

**St. Bernard, G.** 2023. "Profiling Welfare Beneficiaries of a Cash Transfer Programme – The Case of Trinidad and Tobago", 24th Annual SALISES Conference, Learning Resource Centre, The University of the West Indies, St. Augustine, Trinidad and Tobago, May 3-5, 2023 (with Hafeeza Hosein Shah).

**St. Bernard, G.** 2023. "Zeitgeist and the Black Power Movement in Trinidad and Tobago: Are We on the Road to Development Justice Fifty Years Later?" Fiftieth Anniversary of the Trinidad and Tobago Black Power Revolution, Daaga Auditorium, The University of the West Indies, St. Augustine, 20-21 April, 2023.

**St. Bernard, G.** 2023. "Aging indicators, population growth and implications for sub-national projections in small areal units – Evidence from Trinidad and Tobago census data", SMUS 2023 India Conference IT Roorkee, India, February 20-26, 2023 (with Hafeeza Hosein Shah).

**Mohan, P.** 2022. "Financing Nationally Determined Contributions in Caribbean SIDS." SALISES Fourteenth Virtual Forum, Development Finance for a Low-Carbon Caribbean Future: Issues and Solutions.

**Mohan, P.** 2022. "Natural Disasters and Climate Shocks: Building Economic Resilience in Caribbean SIDS." SALISES Spotlight Event, 26th April 2022.

**Mohan, P.** 2022. "The impact of tropical storms on international trade: evidence from Eastern Caribbean SIDS." Paper presented at University of Birmingham Trade, Environment, Development and Energy (TEDE) Research Group Research Seminar Series, December 8th 2022.

**Mohan, P.** 2022. "Implementing Nationally Determined Contributions under the Paris Agreement: An Assessment of Climate Finance in Caribbean Small Island Developing States." Paper presented at Nottingham Trent University, Economics Department Research External Speaker Series, November 23rd, 2022.



# CONTACTS AND LINKS

## Media & General Enquiries

*Marketing & Communications Office*

[sta-marketing.communications@sta.uwi.edu](mailto:sta-marketing.communications@sta.uwi.edu)

## Partnerships, Innovative Research & Entrepreneurship

*St Augustine Centre for Innovation and Entrepreneurship (STACIE)*

[STACIE@sta.uwi.edu](mailto:STACIE@sta.uwi.edu)

*Office of the Campus Principal*

[sta-principal@sta.uwi.edu](mailto:sta-principal@sta.uwi.edu)

## Follow us on Social Media



<https://www.facebook.com/UWISTA>



[https://www.instagram.com/uwi\\_staugustine](https://www.instagram.com/uwi_staugustine)



[https://twitter.com/UWI\\_StAugustine](https://twitter.com/UWI_StAugustine)



<https://www.linkedin.com/school/uwistaugustine>



<https://www.youtube.com/user/uwistaugustine>

## Find out more about the St Augustine Campus

*UWI Today*

<https://sta.uwi.edu/uwitoday/archive.asp>

*Campus Website*

<https://sta.uwi.edu>



**UWI**  
ST. AUGUSTINE  
CAMPUS