



Pearl Harbor

The original names for Pearl Harbor were Pu'uloa (long hill) and Wai Momi (Water of Pearl). It is Hawaii's largest natural harbor. It's also the largest tourist destination in the islands. Attractions include the Arizona Memorial which was constructed over the remains of the USS Arizona where 1,177 servicemen lost their lives during the December 7, 1941 attack on Pearl Harbor. This is a short video about the memorial: <u>https://www.youtube.com/watch?v=xMdLg3elkGo</u>

Pearl Harbor is also home to the Pearl Harbor Aviation Museum where dozens of WWII era planes are on display, the great battleship, the USS Missouri where the Japanese surrender officially took place.,

This year's HUIC Conference sponsor, the Pacific Fleet Submarine Museum, is home to the USS Bowfin.



The Museum offers students many opportunities to further their understanding of science, technology, engineering, and mathematics (STEM) through its formal STEM Engagement Program. Its Education Department has launched engaging, interactive, hands-on programs for students and the general public. It provides students access to quality learning to prepare them to succeed in college, careers, and life through partnerships with schools, hands-on exhibits, and activities throughout the museum. More recently, USS Bowfin dry dock renovation was completed in late 2022. In 2023, an average of 1000-1200 guests visit the Museum on a daily basis. E Komo Mai (Welcome). We look forward to your visit.

https://www.pearlharborhistoricsites.org/pearl-harbor

Waikiki Beach

In Hawaiian, wai-kiki means 'spouting fresh waters'. Located on Oahu's south shore, it is one of the world's most famous beaches and was once a playground for Hawaiian royalty who used heavy 'longboards' to surf the waves. This Hawaiian sport is a tradition carried on to the present day with events throughout the world. The First hotel built on Waikiki Beach was the elegant Moana Surfrider in 1901. Today, hundreds of hotels and world-class shopping venues align the Kalakaua and Kuhio Avenues parallel to the beach. At the end of the beach is the iconic Diamond Head (Mount Le'ahi).

https://www.hawaii-guide.com/oahu/beaches/waikiki-beach



DAY 1

Wednesday - June 07, 2023

KEYNOTE ADDRESS Wednesday - June 07, 2023



MATHEMATICAL ENGINEERING OF INTERNET COMMUNICATION

Dr. Anjan Biswas Endowed Chair of Mathematics Department of Mathematics and Physics Grambling State University Grambling, Louisiana

Dr. Anjan Biswas earned his B.Sc (Honors) in Mathematics from St. Xavier's College, Calcutta, India. Subsequently, he completed his M.Sc and M. Phil degrees in Applied Mathematics from the University of Calcutta. Moving further along, he received MA and Ph.D. degrees in Applied Mathematics from the University of New Mexico in Albuquerque, NM, USA. Thereafter, he was a post-doctoral researcher at the University of Colorado, Boulder, CO, USA.

Currently, Dr. Biswas is the Endowed Chair of Mathematics at Grambling State University in Grambling, LA, USA. His research interest is in *Mathematical Photonics*. In particular, he focuses on pulse propagation dynamics through optical fibers across trans-oceanic and trans-continental distances. He concentrates on soliton perturbation theory, soliton polarization, quasi-stationary solitons, quasi-particle theory, variational principle as well as semi-inverse variational principle, supercontinuum generation and Lie symmetry analysis that are all applicable to the study of Soliton Dynamics. In addition, he focuses on quasi-linear pulses, solitons with differential group delay, dispersion-flattened fibers amongst many other topics and concepts.

To this extent, Dr. Biswas has authored and coauthored close to 1500 research papers in a wide variety of Mathematics, Physics as well as Engineering journals that carry a non-zero impact factor. He has also authored three (3) books on Solitons and Solitary Waves. In addition, he received funding from a wide range of national funding agencies such as NSF, Army as well as the international funding agency known as Qatar National Research Funds (QNRF). This funding over the years amounted roughly to a total of \$12 million. His current Erdos number is 4, while his H-index stands at 101.

Wednesday - June 07, 2023

Room:	Palolo 1
Time:	8:15 - 10:15am
Session:	Mathematics, Financial Mathematics, Mathematical Modeling;
	Introductory Statistics; Pre-service Teachers, Mathematics Education
Session Chair:	Prof. Krzysztof Ostaszewski

I. Dynamically Relative Value at Risk, Relative Expected Shortfall and frequency equivalent level of VaR and ES with Two Correlative Stochastic Process

The calculation of dynamic value at risk (VaR), when cumulative investment and interest rate are correlative stochastic processes, is discussed. The dynamically relative value at risk (RVaR) is presented. Analysis of sensitivity of relative value at risk to the change of important parameters is carried out with the help of Monte Carlo simulation. We also discuss dynamically expected shortfall (ES) and relative expected shortfall (RES). Comparison between VaR, RVaR, ES and RES is done.

- Q: What are the best models for risk-based capital?
- A: Value at risk, conditional tail expectation, and possibly dynamically relative value at risk.

Authors/Presenters:



Prof. Krzysztof Ostaszewski Department of Mathematics Illinois State University Normal, Illinois Prof. Hong Mao Business and Economics School Pu Dong Xin Qu, Shang Hai Shi China Prof. Jin Wang Office of Information Security of China Beijing, China

Wednesday - June 07, 2023

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II. Simulations: Active Learning Techniques for an Introductory Statistics Course

In this session, participants will learn active learning techniques that will allow students to explore statistical concepts. Participants will be led through activities that they can implement immediately in their introductory statistics courses. The activities are designed for students to discover statistical concepts through experimentation and simulations. Instructors who implement these activities will appreciate students' concrete understanding of abstract concepts.

Q: How can I get my students excited in statistics?

A: Use active learning and simulations!

Author/Presenter:	Dr. Carrie Grant
	Department of Mathematics and Technology
	Flagler College
	St. Augustine, Florida

III. Pre-service Elementary Teachers' Conceptual Understanding of Statistics

This study compared two different methods of teaching a unit on statistics taught over a four week portion of a content course for future elementary teachers. One of the units focused on the statistical process and the other was consistent with a standard textbook. This study used the Levels of Conceptual Understanding of Statistics Test in addition to regular coursework to measure students' conceptual understanding.

Q: What do we want pre-service elementary teachers to know about statistics?

A: Many things, including the statistical process.

Author/Presenter:

Dr. Rachel M. Chaphalkar Department of Mathematics University of Wisconsin - Whitewater Whitewater, Wisconsin

Wednesday - June 07, 2023

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IV. Adding Gamification Elements to a Differential Equations Course

In this presentation, I will describe how I included gamification elements in my differential equations course. These gamification elements include making the course a quest to defeat a dragon, adding levels to the course including a leader board, and adding outside rewards. The development of an extensive syllabus and Moodle site will be discussed. The results of student achievements and attitudes will be presented. Finally, these results will be compared to a non-gamified course.

Q: Why would you want to include gamification elements in a course?

A: To motivate students to spend more time with the subject.

Author/Presenter:



Dr. Nora Strasser STEM Division Friends University Wichita, Kansas



Wednesday - June 07, 2023

Room:	Palolo 2
Time:	8:15 - 9:45am
Session:	Educational Administration, Educational Policy & Leadership; Adult
	Education, Educational Administration and Higher Education
Session Chair:	Dr. Denver Fowler

I. A Mixed-Methods Investigation: Ethical Leadership Perspectives of Superintendents in the State of California

The purpose of this study was to investigate the ethical leadership perspectives of superintendents in the state of California. Secondly, the researchers examined to what extent the ethical leadership perspectives of superintendents varied according to leader demographics and state/county/school district characteristics.

Q: Do the ethical leadership perspectives of superintendents vary according to leader demographics and school district characteristics?

A: Yes.

Authors/Presenters:



Dr. Denver Fowler The Graduate Student Center California State University, Bakersfield Bakersfield, California Dr. Sarah Jouganatos College of Education California State University, Sacramento Sacramento, California Dr. Yuerong Sweetland Director of Assessment Franklin University Columbus, Ohio



Hawaii University International Conferences

Wednesday - June 07, 2023

Room:	Palolo 2
Time:	8:15 - 9:45am
Session:	Educational Administration, Educational Policy & Leadership; Adult
	Education, Educational Administration and Higher Education
Session Chair:	Dr. Denver Fowler

II. Diversity, Equity, and Inclusion in University Hiring Practices

Universities and other employers often include a hiring practices statement on job postings. The statement may be as short as a single sentence explaining that the university is an equal opportunity employer, or the job posting may contain a detailed description of the organization's commitment to diversity, equity, and inclusion. The purpose of this paper is to explore the content in job posting statements with legal obligations and with employer practices in higher education.

Q: What is DEI?

A: Diversity, equity, and inclusion.

Authors/Presenters:	Dr. Nancy D. Albers
	School of Business Administration
	University of South Carolina Aiken
	Aiken, South Carolina
	Dr. Karen E. James
	Dr. Tami L. Knotts
	Department of Management and Marketing
	Louisiana State University Shreveport
	Shreveport, Louisiana



Hawaii University International Conferences

Wednesday - June 07, 2023

Room:Palolo 3Time:8:15 - 9:45amSession:Artificial Intelligence in Education; STEM and Maths Cognition; Biology,
Environmental ScienceSession Chair:Prof. Bill Gardner

I. Using and Abusing ChatGPT in the Classroom

This presentation will examine the use and abuse of the ChatGPT language model in university classes. The primary focus will be on how ChatGPT can be utilized to enhance student learning and engagement, as well as the ethical considerations surrounding its use. The presentation will also explore potential abuses of the model, such as plagiarism and cheating, and discuss strategies for preventing and addressing these issues.

- Q: How is using ChatGPT not cheating?
- A: Student still engage with the material and it gives the students the opportunity to determine the accuracy of the answer along with providing an opportunity for the student to restart or clarify the answer given by the chatbot.

Author/Presenter:



Prof. Bill Gardner Cyber Forensics & Security Program Marshall University Huntington, West Virginia



Wednesday - June 07, 2023

Room:	Palolo 3
Time:	8:15 - 9:45am
Session:	Artificial Intelligence in Education; STEM and Maths Cognition; Biology,
	Environmental Science
Session Chair:	Prof. Bill Gardner



Wednesday - June 07, 2023

Room:Palolo 3Time:8:15 - 9:45amSession:Artificial Intelligence in Education; STEM and Maths Cognition; Biology,
Environmental ScienceSession Chair:Prof. Bill Gardner

III. Aeroallergen Indices of the Texas Panhandle with a special reference to Anomalous shift in Pollen, Mold Spore and PM2.5

The study of air quality and aerobiology is an important field and contributes to advancing the scientific body of knowledge and understanding the world around us. Capturing, identifying, and quantifying airborne particles are important to understanding air quality. Our research encompasses the High-Plains area in the Texas Panhandle and focuses on specific particulates including pollen, fungal spores and PM2.5. We used a fiberglass chamber to simulate experiments and collect data.

Q: What's in your air? What are we breathing?

A: PM2.5, pollen, mold spores, fibers that are causing your allergy & asthma.

Authors/Presenters:



Dr. Nabarun Ghosh Life, Earth and Environmental Sciences Department West Texas A&M University Canyon, Texas Ms. Aubrey Howard Ms. Lyanna DeLeon Mr. Prabir Banerjee Life, Earth and Environmental Sciences Department West Texas A&M University Canyon, Texas



Wednesday - June 07, 2023

Room:Palolo 3Time:10:00 - 11:30amSession:Culturally Relevant Teaching, Teacher Education, STEM Education

WORKSHOP

Providing Culturally Relevant Teaching to STEM When You Are THE Culture or Seeking THE Culture

The purpose of this study and presentation is to discuss culturally responsive teaching and pedagogy and evaluate its importance within schools and the classroom and its effect on student engagement as it relates to STEM.

Q: How does an educator's lived experiences, including their values and opinions, impact their work as a classroom teacher?

A:

Presenters:



Prof. Marla Hunter Hooper School of Education Johns Hopkins University Baltimore, Maryland



Prof. Eulanda Seals School of Education American University Washington, DC

Wednesday - June 07, 2023

Room:	Naio
Time:	10:00 - 11:30am
Session:	History and Science

WORKSHOP

Museums As Classroom Without Walls and Learning Labs: Community Resource and STEM Education Case Study Utilizing Social Media Creator Content Rules for Public Engagement at the Pacific Fleet Submarine Museum (PFSM)

Student learning engagement comes in many forms. From story time to meaningful internships, museums provide applicable STEM opportunities for all ages through its creator content "rules" of developing demos and activities in combination with Museum Educators expertise. In our case, the Innovation Carts not only provide a forum for STEM education and history, but they also provide a venue where partner organizations can participate in the local community when students visit for field trips.

- Q: How do social media and content creation "rules" relate to museums and STEM education?
- A: Public shapes the content learning process.

Presenter: Ms. Susan Kam Pacific Fleet Submarine Museum Honolulu, Hawaii





Hawaii University International Conference:

Wednesday - June 07, 2023

Room:	Palolo 1
Time:	12:45 - 2:15pm
Session:	Mathematics; Applied Mathematics; Technology, Engineering
Session Chair:	Dr. Anjan Biswas

I. Quasi—Stationary Optical Gaussons with Maximum Intensity

The talk will focus on the transmissions of optical Gaussons across transcontinental and transoceanic distances through undersea and underground optical fibers. The governing model is the nonlinear Schrodinger's equation that will be considered with logarithmic law of nonlinearity in presence of perturbation terms. These perturbation terms are with full nonlinearity that is also known as maximum intensity.

Q: What area of Mathematics is this presentation from?

A: Applied Mathematics

Author/Presenter:



Dr. Anjan Biswas Department of Mathematics and Physics Grambling State University Grambling, Louisiana



Hawaii University International Conferences

Wednesday - June 07, 2023

Room:	Palolo 1
Time:	12:45 - 2:15pm
Session:	Mathematics; Applied Mathematics; Technology, Engineering
Session Chair:	Dr. Anjan Biswas

II. Trait-mediated Dispersal can Cause Hump-shaped Density-area Relationship

We analyse positive solutions (u, v) to a steady state reaction diffusion system. This system models the steady states of two species, predator-prey living in a habitat where the predator (u) is a generalist with the consumptive effect on prey is negligible. Here, \ddot{e} is directly proportional to the size of the habitat and we will study the ranges of \ddot{e} where coexistence, nonexistence, and a hump-shaped density area relationship occurs.

Q: Can Predator-induced prey dispersal cause hump-shaped density-area relationships in prey populations?

A: Yes! Depending on patch size.

Authors/Presenters:



Prof. Amila Muthunayake Department of Mathematics Weber State University Ogden, Utah **Dr. James T. Cronin** Department of Biological Sciences Louisiana State University Baton Rouge, Louisiana **Prof. Jerome Goddard II** Department of Mathematics Auburn University, Montgomery Montgomery, Alabama Mr. Juan Quiroa Department of Mathematics North Carolina State University Raleigh, North Carolina Dr. Ratnasingham Shivaji Department of Mathematics and Statistics University of North Carolina, Greensboro Greensboro, North Carolina

Hawaii University International Conferences

Wednesday - June 07, 2023

Room:	Palolo 1
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Session Chair:	Dr. Anjan Biswas

III. Using Telematics Data to Compare the Braking Behaviour of Female and Male Drivers in Australia

Road traffic crashes have emerged to be the leading cause of death among young drivers globally. Furthermore, male young drivers remain over-represented accounting for almost two-third of road traffic deaths worldwide including Australia. The current study aimed to incorporate in-car telematics devices into a naturalistic study setting to compare the braking behaviour of female and male drivers over time. Overall, male drivers demonstrated a greater improvement in their braking scores over time.

- Q: How can in-car telematics devices be used to support drivers?
- A: The braking score captured by the in-car telematics devices is a good reflection of *driving behaviour*.

Authors/Presenters:Dr. Won Sun Chen
Mr. James Boylan
Prof. Denny Meyer
Department of Health Science and Biostatistics
Swinburne University of Technology
Hawthorn, Victoria
Australia



Dr. Won Sun Chen







Prof. Denny Meyer



Wednesday - June 07, 2023

Room:Palolo 2Time:12:45 - 2:15pmSession:Integration, Learning in the ClassroomSession Chair:Dr. Stefanie Zaklan Duff

I. Indigenizing a Science Classroom

Here I will discuss the journey of trying to understand and implement indigenizing a University science (biology) classroom on Vancouver Island Canada.

Q: Do you use the local Indigenous language in your classroom?

A: A little bit, yes.

Author/Presenter:

Dr. Stefanie Zaklan Duff

Fisheries and Aquaculture Department Vancouver Island University Nanaimo, British Columbia Canada



Hawaii University International Conferences

Wednesday - June 07, 2023

Room:	Palolo 3
Time:	12:45 - 2:15pm
Session:	Data Science, Equity Grading, Authentic Assessment, Project Based
	Learning; ESL Education; Higher Education
Session Chair:	Dr. Shilpa Gupta

I. Optimizing Language Learning and Translation through Metacognitive Awareness: An Empirical Study

This study investigates the role of metacognition in translation of academic texts. Using a set of research paper introductions translated by experienced and novice translators, the study tests two hypotheses on the use and distribution of metacognitive strategies. Results show that both experienced and novice translators use different strategies, and that the distribution of these strategies changes as translators progress through the stages of the translation process.

- Q: What did the study do?
- A: The study examined the dynamic processing process of metacognition in translation, by analyzing the elements of metacognition of the translator when translating the introduction section of research papers from Chinese into English.

Author/Presenter:



Prof. Meng-Lin Chen Translation and Interpretation Studies Chang Jung Christian University Gueiren District, Tainan City Taiwan

Wednesday - June 07, 2023

Room:	Palolo 3
Time:	12:45 - 2:15pm
Session:	Data Science, Equity Grading, Authentic Assessment, Project Based
	Learning; ESL Education; Higher Education
Session Chair:	Dr. Shilpa Gupta

II. Experience with Authentic Assessment in a Data Science Classroom

Data Science attracts learners from various disciplines and different levels of fluency with statistical concepts. This paper describes the experience of using systems thinking to design formative and summative assessments for a mixed skill classroom on data science foundations using approaches from student-centric pedagogies. Unstructured assessments provide the feedback loop in creating more meaningful scaffolding assignments to make the learning deeper.

Q: What does authentic assessment look like for a mixed skills classroom?

A:

Author/Presenter:	Dr. Shilpa Gupta
	Industrial and Systems Engineering
	San Jose State University
	San Jose, California

III. Silence in Classroom for ESL: Strategies for Creating a Productive Learning Environment

In ESL classrooms, it is common for students to struggle with speaking and listening in English, especially if they come from a non-English speaking background. However, creating an environment that encourages active participation from students is essential for their language development. This session will explore the reasons why students may remain silent in the classroom and provide practical strategies for teachers to create a productive learning environment.

- Q: Are you looking for practical strategies to create a more engaging and supportive learning environment for your ESL students?
- A: Come to this session to learn more.

Author/Presenter:	Mrs. Ashwaq J. Alghamdi
	Masters Program TESL
	Gonzaga University
	Spokane, Washington

Wednesday - June 07, 2023

Room:	Naio Room
Time:	12:45 - 2:15pm
Session:	Space, Engagement, Inspiration, Pathways

WORKSHOP

Examining the effect of STEM Outreach on Primary Schools in Los Angeles Through the Lens of a Space-focused STEM Program

This presentation serves to inform the audience about the importance of engaging STEM education and outreach. Results from a space-based STEM program are presented to demonstrate observable results and feedback. This program helps fill the STEM education gap in primary schools, while eventually connecting with other programs to create pathways for students to pursue STEM education and eventually support the workforce.

- Q: Is STEM education effective?
- A: Engaging STEM education is important for inspiring students to pursue STEM education and careers.
- Authors/Presenters:Mr. Jonathan Stroud
Ms. Nicole Palmer
Ms. Sareta Gladson
United States Space Force Space Systems Command
Los Angeles, California



Wednesday - June 07, 2023

Room:	Palolo 1
Time:	2:30 - 4:00pm
Session:	Curriculum, Research and Development; Special Education
Session Chair:	Dr. Tammy VanDeGrift

I. Students' Reflections on Computer Science, the Liberal Arts, and the Greater Good

The presentation will describe an assignment used in a computer science capstone course to help students explore how they can use computing skills for the greater good and reflect upon how the core curriculum has prepared them for the profession. In addition to providing the assignment, an analysis of what students chose for their activities and the emergent themes related to the core curriculum will be provided. Students also completed an optional survey about how this activity prepared them.

- Q: How is reflection integrated into other parts of the CS curriculum or core curriculum at the University?
- A: The CS curriculum contains courses focused on technology and society. The seminar course is required and students demonstrate analysis of ethics and technology through debates, papers, and presentations. An elective CS course focuses on Tech Ventures and is more focused on how to prepare for the profession, including pitches, resumes, interviewing skills, goal-setting, and career planning. The core curriculum now has exploration courses that integrate two core habits, such as aesthetics, problem-solving, ethics, communication, historical/global issues, and the greater good.

Author/Presenter:



Dr. Tammy VanDeGrift Shiley School of Engineering University of Portland Portland, Oregon



Wednesday - June 07, 2023

Room:	Palolo 1
Time:	2:30 - 4:00pm
Session:	Curriculum, Research and Development; Special Education
Session Chair:	Dr. Tammy VanDeGrift

II. The Influence of Parental Characteristics on Parental Involvement in Programs for Students with Intellectual Disabilities

Parental involvement is considered to be a key element in the success of programs for children with intellectual disabilities (ID).

Author/Presenter: **Dr. Mubarak S. Aldosari** Department of Special Education Prince Sattam bin Abdulaziz University SaudiAl-Kharj Saudi Arabia

III. Exploring Deaf and Hard of Hearing Students' Engagement with Reading Comprehension Strategies in Elementary School

This ethnography study is to identify which reading comprehension strategies that D/HH students would engage with most at the third-grade level and understand the influence of other informal reading comprehension strategies during informal interaction. The findings revealed a positive student engagement with answering questions, comprehension monitoring, and story maps, meaning they exhibited a good level of interaction during the use of the aforementioned strategies.

Q: Are there formal reading strategies that third-grade D/HH students engage with most?

A: Of course, these strategies are the same as hearing student's strategies.

Author/Presenter:



Dr. Ali Alasmari Department of Special Education Prince Sattam University Kharj, RD Saudi Arabia

Wednesday - June 07, 2023

Room:	Palolo 2
Time:	2:30 - 4:00pm
Session:	Law and Science; Academic Advising and Counseling
Session Chair:	Dr. Ruby Dhand

I. Isolated in Care: COVID-19 and Access to Justice for People with Mental Health Disabilities: A Multidisciplinary Analysis in Law and Science

Multidisciplinary collaborations are an effective method to bridge the gap between law and science and to inform institutional and systemic change for increasing access to justice for people with mental health and substance use issues. The COVID-19 pandemic presented an opportunity to conduct multidisciplinary and community based research.

Q: What is Science and Law?

A:

Authors/Presenters:



Dr. Ruby Dhand Faculty of Law Thompson Rivers University Kamloops, British Columbia Canada



Dr. Dipesh Prema Faculty of Science Thompson Rivers University Kamloops, British Columbia Canada

Wednesday - June 07, 2023

Room:	Palolo 2
Time:	2:30 - 4:00pm
Session:	Law and Science; Academic Advising and Counseling
Session Chair:	Dr. Ruby Dhand

II. Academic and Social Integration for Underrepresented Minority Students in STEM Disciplines at GABBR LSAMP Institutions

We describe an undergraduate STEM model funded by the National Science Foundation's Greater Alabama Black Belt Region Louis Stokes Alliance for Minority Participation (GABBR LSAMP) program, awarded to a Consortium of eight institutions to mentor and prepare STEM majors that aims to increase the number of underrepresented minorities obtaining associate, bachelors, and graduate degrees in STEM. We employ a rigid regiment of both peer and faculty mentoring.

- Q: The GABBR LSAMP model has played an instrumental role in promoting the resounding success in preparing underrepresented minority students across eight Alliance institutions for productive careers in the STEM workforce. What are factors that promote this success?
- A: A Bridge Model grounded in research which creates supportive communities of STEM students through a rigid regiment of both peer-to-peer mentoring and mentoring by dedicated STEM faculty.

Authors/Presenters:Dr. Overtoun Jenda
Dr. Brittany McCullough
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Dr. Mohammed Qazi
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Dr. David M. Shannon

Hawaii University International Conferences

Dr. Overtoun Jenda

Dr.Brittany McCullough

Dr. Mohammed Qazi

Wednesday - June 07, 2023

Room:	Palolo 3
Time:	2:30 - 4:00pm
Session:	Arts Education, Science Education, Theatre

WORKSHOP

Using Improvisational Technique and Experiential Learning in the STEM/STEAM/ STREAM Classroom

Interactive Improv workshop and discussion of techniques and best practices in the use of Improv and theatre arts to enhance student learning in STEM/STEAM/STREAM classrooms and to enhance content retention through improved psychological and social interactions by creating a memorable and enjoyable classroom learning experience to benefit educational outcomes and future societal and workforce needs.

- Q: Can the Performing Arts be used to promote awareness in STEM fields?
- A: *Performing arts are an excellent forum to create a more enjoyable and memorable learning outcome.*

Authors/Presenters:



Mr. Jonathan Harris Northern Gulf Institute Mississippi State University Starkville, Mississippi Prof. Tonya Hays MFA Mr. Jesse Wade MFA Department of Communication Mississippi State University Mississippi State, Mississippi

Wednesday - June 07, 2023

Room:	Naio
Time:	2:30 - 4:00pm
Session:	Theorising the concept of STEAM; STEAM Education; Inquiry-based
	Education; Teacher Education
Session Chair:	Dr. Harry Kanasa

I. Reconceptualising STEAM Inquiry for the Classroom

Reconceptualising STEAM as fields of inquiry that students can use to 'answer question, solve problems and create products to make a difference in their lives and the lives of others' will be presented. This STEAM inquiry model will assist students and teachers to reflect on the interdisciplinarity in their projects, unifies STEM/STEAM and problem-based learning and provides clarity for researchers to establish robust lines of research. Scaffolds to assist the reflective process will be provided.

Q: Why should the Arts be included?

A: The Arts inquiries into the human condition, explores the aesethetic and the 'what if'. The Arts also has the important job of encoding and dissemination of kowledge through song, theatre and dance.

Authors/Presenters:



Dr. Harry Kanasa School of Education and Professional Studies Griffith University Mermaid Waters, Queensland Australia Dr. Kate Thompson School of Education and Professional Studies Griffith University Mermaid Waters, Queensland Australia

Wednesday - June 07, 2023

Room:	Naio
Time:	2:30 - 4:00pm
Session:	Theorising the concept of STEAM; STEAM Education; Inquiry-based
	Education; Teacher Education
Session Chair:	Dr. Harry Kanasa

II. The STEAM Inquiry Model: Reconceptualising STEAM as Fields of Inquiry

This presentation seeks to reconceptualise STEAM as an inquiry model, primarily to be used within the classroom to facilitate inquiry-based learning, but also for educators, researchers and policy-makers to understand their work better from an educational perspective.

- Q: How can STEAM be used as inquiry tools?
- A: The STEAM fields have unique inquiry methods (e.g., the scientific/experimental method in the sciences) that allow students to answer questions, solve problems and create products to make a difference in their lives or the lives of others.

Authors/Presenters:



Dr. Harry Kanasa School of Education and Professional Studies Griffith University Southport, Queensland Australia Dr. Susan Champman Dr. Kate Thompson School of Education and Professional Studies Griffith University Southport, Queensland Australia



Hawaii University International Conferences

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Room:	Naio
Time:	2:30 - 4:00pm
Session:	Theorising the concept of STEAM; STEAM Education; Inquiry-based
	Education; Teacher Education
Session Chair:	Dr. Harry Kanasa

III. Teaching Mathematics and Related Courses at University of Houston – Downtown

We give some strategies and ideas tested in undergraduate mathematics, statistics, and data science courses, as well as in undergraduate research and related projects, for improving both students' and instructor's engagement, motivation, and achievements. The main principles include creating an environment with traditional lectures involving theory and computational examples and a two-way communication between the instructor and the students. Student participation is crucial for motivating the instructor to deliver clear and concise lectures and to explain the material effectively.

- Q: To what extent is technology used in Calculus I class?
- A: Technology is only used for homework assignments to provide students with a large pool of practice questions with immediate feedback on whether their answers are correct or not.

Author/Presenter: **Dr. Katarina Jegdic** Department of Mathematics and Statistics University of Houston, Downtown

Houston, Texas





Hawaii University International Conferences



DAY 2

Thursday - June 08, 2023

KEYNOTE ADDRESS Thursday - June 08, 2023



Kwame Badu Antwi-Boasiako, PhD. Department of Government Stephen F. Austin State University Nacogdoches, Texas

Kwame Badu Antwi-Boasiako, PhD., a professor, is a former broadcaster, with the Ghana Broadcasting Corporation from 1980-1992. Schooled at the Ghana Institute of Journalism, 1989-1991, Accra, Ghana, the University of North Texas, Denton, Texas from 1992-2000 for his bachelor's degree in journalism and two master's degrees in journalism and public administration respectively. Attended Mississippi State University from 2000-2004 for a doctorate degree in public policy and administration and international relations. Currently, the Chair of the Department of Government and professor, public administration and political science at Stephen F. Austin State University, Nacogdoches, Texas.

Courses taught at the undergraduate and graduate levels include International Relations, American Government, Research Methods, Public Policy, and Program Evaluation. Primary research interests include, terrorism, democracy in Africa, decentralization, affirmative action, and diversity in the public sector. He co-authored a book: Traditional Institutions and Public Administration in Democratic Africa and co-edited: The theories of decentralization and local government: Implementation, implications, and realities: A global perspective. Published in several journals including Political Preferences, International Social Science Review, Journal of Southwest Council of Latin American Studies, Journal of African Studies and Development, Administration and Society, Journal of Public Personnel Management, African Social Science Review, and International Journal of Political Science.

Thursday - June 08, 2023

Room:	Palolo 1
Time:	8:15 - 9:45am
Session:	Conversation Analysis; Language Aquisition, Language Learning Tool
Session Chair:	Prof. Richard John

I. Suzie the Scientist and Millie the Mathematician - Learn-to-read STEM books for K-2 students and their parents!

This paper presents a new and innovative take on levelled readers for use at home or in the classroom. 'Suzie the Scientist' and 'Millie the Mathematician' are the lead protagonists in two new, learn-to-read, book series targeting K-2 students and their parents! Featuring 'cool and engaging' female role models (i.e. Suzie and Millie), the books promote early interest in STEM and engender the notion, from the earliest of ages, that STEM and STEM studies are appropriate pursuits for all.

Q: What was your motivation for creating these book series

A: My Children.

Author/Presenter:

Prof. Richard John

School of Environment and Science Griffith University, Gold Coast Campus Southport, Queensland Australia





Hawaii University International Conferences

Thursday - June 08, 2023

Room:	Palolo 1
Time:	8:15 - 9:45am
Session:	Conversation Analysis; Language Aquisition, Language Learning Tool
Session Chair:	Prof. Richard John

II. Sharing Books with Children: How Picture Book Dialogues Unfold in Interactive Read-Alouds

This presentation discusses the results from a conversation analytic study of parent-child shared reading of picture books. The purpose of the study is to examine what rights and responsibilities are oriented to and enacted by the parent and child in their dialogues of both the pictures and the stories during interactive read-alouds. In particular, this paper will highlight how the parent's and child's rights and responsibilities are realized in the sequential context of talk-in-interaction.

- Q: How does this study differ from other studies about parents reading to their children?
- A: This conversation analytic study focuses on how interactions unfold through sequential turn-taking between the parent and child rather than on the positive impact of reading aloud to children on their language and literacy development, which has been the focus of a large body of work.

Author/Presenter:



Dr. Shin-ying Huang

Department of Foreign Languages and Literatures National Taiwan University Taipei, Taipei Taiwan

III. Glossa: A Self-driven Language Learning Tool

In this paper, we introduce Glossa in detail and provide its execution results along with performance comparisons with similar tools. The experimental results demonstrate that our tool is superior to those implementations that are currently available for comparison.

Authors/Presenters: Mr. Ashton Wesley LaRoche Dr. Ebru Celikel Cankaya Department of Computer Science University of Texas at Dallas

Richardson, Texas

Thursday - June 08, 2023

Room:	Palolo 2
Time:	8:15 - 9:45am
Session:	Data Science
Session Chair:	Dr. Jazmin Quezada

I. A Methodology to Transform Non-image Data to Image for Convolutional Neural Network Architecture

The proposed model has the overall benefit of RP, which allows us to visualize some components of the m-dimensional phase space trajectory through 2D images, and CNN, which automatically learns many levels of time-series features and classification in conjunction and a supervised manner.

Q: Why is it that most tabular data are unsuitable for modeling using deep learning models?

A:

Authors/Presenters:	Dr. Maria C. Mariani
	Department of Mathematical Sciences
	University of Texas at El Paso
	El Paso, Texas
	Dr. Prince Appiah
	PhD in Data Science
	University of Texas at El Paso
	El Paso, Texas
	Dr. Osei K. Tweneboah
	School of Theoretical and Applied Science
	Ramapo College of New Jersey
	Mahwah, New Jersey
	-



Hawaii University International Conferences

Thursday - June 08, 2023

Room:	Palolo 2
Time:	8:15 - 9:45am
Session:	Data Science
Session Chair:	Dr. Jazmin Quezada

II. Machine Learning Methodologies with Applications to Medical Diagnosis

This work presents some practical applications of machine learning to pediatric pneumonia using chest X-ray images.

Q: How can we use machine learning to diagnose diseases?

A:

Authors/Presenters:Dr. Maria C. Mariani
Dr. Jazmin Quezada
Department of Mathematical Sciences
University of Texas at El Paso
El Paso, Texas
Dr. Osei K. Tweneboah
School of Theoretical and Applied Science
Ramapo College of New Jersey
Mahwah, New Jersey



Thursday - June 08, 2023

Room:	Palolo 3
Time:	8:15 - 9:45am
Session:	Education, Education Administration, K-12 Education, Teacher Education;
	Information Technology; Mathematics Education
Session Chair:	Dr. Kim McGarraugh Jones

I. Are We Honoring Student Differences When They All Look the Same?: The Uniform Debate

In order to address increasing violence in schools related to students' outward display of gang affiliation or socio-economic status, schools are considering the adoption of a school uniform policy. Arguments in favor of uniform policies, including reasons related to safety, as well as arguments against uniform wearing, such as concerns related to students' freedom of expression, will be explored. Recommendations for policy adoption will then be presented.

- Q: What are some reasons for schools adopting school uniform policies?
- A: 1. Decrease school violence where students are injured or killed because of the shoes they wear. 2. School personnel could more easily spot intruders. 3. Decrease outward expression of gang affiliation or socio-economic status. 4. Improve students' academic performance. 5. Assist families in poverty.

Author/Presenter:



Dr. Kim McGarraugh Jones Dept. of Curriculum, Supervision, Education Leadership Central Washington University Yakima, Washington


Thursday - June 08, 2023

Room:	Palolo 3
Time:	8:15 - 9:45am
Session:	Education, Education Administration, K-12 Education, Teacher Education;
	Information Technology; Mathematics Education
Session Chair:	Dr. Kim McGarraugh Jones

II. A Practical Example of Programming Education Using a 3DCG Development Tool with a Physics Engine

In this paper, we describe an approach to get students interested in programming by having them learn 3DCG development at the same time as programming. Unity, a 3DCG development application with a physics engine, was introduced as the tool used, giving priority to the visual interest and the richness of the CG object library. Although most of the students had little programming experience, they were able to work on the project with great interest until its completion.

Q: What is "Unity" system?

A: A 3DCG development tool with a physics engine.

Author/Presenter:



Prof. Yukinobu Miyamoto Faculty of Business Administration Kobe Gakuin University Kobe, Hyogo Japan





Thursday - June 08, 2023

Room:	Palolo 3
Time:	8:15 - 9:45am
Session:	Education, Education Administration, K-12 Education, Teacher Education;
	Information Technology; Mathematics Education
Session Chair:	Dr. Kim McGarraugh Jones

III. Why Students Major in Mathematics

Why do students major in mathematics? Is it because of math-related careers? Is it because of the influence of others? Is it because of mathematics itself? We analyzed students' responses from two different countries with different cultural and educational backgrounds in finding answers to this question.

- Q: Why it is important to know what factors are the most influential to become a math major?
- A: Answers to this question can tell us where, when, and how we can promote mathematics among students.

Authors/Presenters:	Dr. Tharanga Mahesh Kumara Wijetunge
	Division of Mathematics and Computational Sciences
	Lyon College
	Batesville, Arkansas
	Prof. Kirthi Premadasa
	Dr. Ben Collins
	University of Wisconsin-Platteville
	Platteville, Wisconsin
	Dr. Gayan W. Liyanage
	University of Dayton
	Dayton, Ohio
	Dr. Amila Appuhamy
	Missouri Southern State University
	Joplin, Missouri
	Dr. Jayampathi K. Ratnayake
	University of Sri Jayewardenepura
	Nugegoda, Sri Lanka
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Thursday - June 08, 2023

Room:Palolo 1Time:10:00 - 11:30amSession:Mathematics, Applied MathematicsSession Chair:Dr. Emil Daniel Schwab

I. An Investigation of Fibonacci Numbers Using Multiplicative Arithmetic Functions

This talk brings to the fore a different and effective way of approaching Fibonacci sequences via multiplicative arithmetic functions.

- Q: How to approach Fibonacci sequences using multiplicative arithmetic functions?
- A: Specially multiplicative prime-independent arithmetic functions and Fibonacci sequences are two equivalent mathematical objects in the sense that each can be reconstructed from the other.

Authors/Presenters: Dr. Emil Daniel Schwab

Department of Mathematical Sciences The University of Texas at El Paso El Paso, Texas **Prof. Gabriela Schwab** Mathematics Department El Paso Communitiy College El Paso, Texas



Thursday - June 08, 2023

Room:	Palolo 2
Time:	10:00 - 11:30am
Session:	Political Science Global Domination; History; US History
Session Chair:	Prof. Kwame Badu Antwi-Boasiako

I. Globalization, Colonization, and Linguicide: How Ghana is Losing its Local Languages through Radio and Television Broadcast

While languages develop, studies have shown that globally native languages are either dying or have seriously been corrupted by the languages of their powerful invading colonizers as seen in the Americas, Canada, Australia, and Africa. This strategy linguicide or language shift is seen through education and religious activities of the invaders who see the natives as primitive. Technology has also contributed to the spread of these modern languages as a result of generational change.

- Q: How fluently do you speak a native language?
- A: Very bad since it has been corrupted with the colonizers' languages.

Authors/Presenters:



Prof. Kwame Badu Antwi-Boasiako Department of Government Stephen F. Austin State University Nacogdoches, Texas



Prof. Kofi Agyekum Linguistics Department University of Ghana Legon, GhanaGreater Accra Ghana

Thursday - June 08, 2023

Room:	Palolo 2
Time:	10:00 - 11:30am
Session:	Political Science Global Domination; History; US History
Session Chair:	Prof. Kwame Badu Antwi-Boasiako

II. Technology, Imperialism, and Empire Building: The Role of the Submarine Cable in the Colonization of Africa in the late 19th Century

The general discourse on the history of European colonization of the African continent in the late 19th century, has focused on the social, economic, political, and cultural aspects of the topic. However, very little attention has been paid to the role that technology – specifically, the submarine cable - played in the successful colonization of the continent and its peoples by European powers of the time.

Author/Presenter: Dr. Clemente Abrokwaa African Studies Department Penn State University State College, Pennsylvania

III. Waldine Tauch, The First Texan Sculptor

Many want to create something great, but few do, and even fewer do it more than once. Waldine A.Tauch became the first native Texan to sculpt large public works, and she created many of them, including the first American monument to World War I by a woman. She began as a student under Pompeo Coppini in 1910, completing her first public work in 1914, her war memorial in 1924, and three works for the Texas Centennial. Coppini died in 1957, but she continued, creating some of her best works.

- Q: Who is the first Texas-born sculptor to create large public works, and the first woman to sculpt a memorial to World War I in the United States?
- A: Waldine A. Tauch, born in Schulenburg, TX, in 1892

Author/Presenter:



Dr. Richard B. McCaslin History Department University of North Texas Denton, Texas



Thursday - June 08, 2023

Room:	Palolo 3
Time:	10:00 - 11:30am
Session:	Distance Education, Education Technology, Science Education

WORKSHOP

Keys to developing an Online STEM Course in Canvas

In this workshop, we will outline steps to building an inclusive and effective online STEM course. We will model using the Canvas Learning Management System, though certain design elements are transferable to other platforms. Major topics to be covered will include: essential and important design elements (e.g., synchronous vs asynchronous, strictly online vs. hybrid), adding curriculum and pacing of assignments, and addressing diverse student learning styles (e.g. auditory, visual, kinesthetic)

Q: Can these techniques be used with other learning management systems?

A: Yes, though we will focus on Canvas.

Authors/Presenters:



Dr. Djibo Zanzot Department of Biological Sciences Auburn University Auburn, Alabama



Dr. Ashley Peart Department of Biological Sciences Auburn University Auburn, Alabama



POSTER SESSION

Thursday - June 08, 2023 11:00 am - 12:30 pm Naio Room

Thursday - June 08, 2023

Room:	Naio Room
Time:	11:00am - 12:30pm
Session:	Posters

1. Perception of Education Interventions Used During the COVID-19 Interruption in Athletic Training Clinical Education

Examination of the impact of the COVID-19 interruption on athletic training clinical education. Focus was placed on the alternative educational interventions used and perceptions of whether the changes effectively continued student development compared to traditional clinical education methods. Differences were found in student perceptions regarding clinical progress and the interventions when alternative interventions were implemented compared to students who did not receive an intervention.

Authors/Presenters:



Dr. Kari Emineth Exercise and Sport Science University of Wisconsin-La Crosse La Crosse, Wisconsin



Dr. Cordial Gillette Exercise and Sport Science University of Wisconsin-La Crosse La Crosse, Wisconsin



Thursday - June 08, 2023

Room:	Naio Room
Time:	11:00am - 12:30pm
Session:	Posters

2. The Effects of Cold-Water Immersion on Post-High-Intensity-Exercise Cortisol and Testosterone to Determine Recovery

The effect of cold-water immersion (CWI) on hormones post high-intensity exercise have not been fully elucidated yet ice baths remain a common recovery activity for athletes. This study compared rest to various lengths of CWI to explore the effects on acute and prolonged recovery. Athletes may want to determine their recovery depending on their goal. When seeking acute recovery, athletes may want to partake in physical rest; however, CWI may be more beneficial for prolonged recovery.

- Q: What increases prolonged recovery in athletes following a high intensity workout?
- A: Longer bouts of cold-water immersion.

Authors/Presenters:



Dr. Cordial Gillette Exercise and Sport Science University of Wisconsin-La Crosse La Crosse, Wisconsin Dr. Brett McCutchins Dr. Matt Andre Exercise and Sport Science University of Wisconsin-La Crosse La Crosse, Wisconsin



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Hawaii University International Conferences

Thursday - June 08, 2023

Room:	Naio Room
Time:	11:00am - 12:30pm
Session:	Posters

3. Traveling North Through Mathematical History

As it provides an appropriate venue for multi-cultural studies, as well as the possibility of a global experience for STEM majors, the course History of Math has become an integral part of the math curriculum at the presenter's institution. The presenter would like to share her experiences in designing and teaching this STEM study abroad course that relates the historical timeline of mathematics to (primarily western) sites of historical mathematical interest traveling from Greece to the U.K.

- Q: What mathematicians do you consider the most relevant in advancing scholarship through community?
- A: Leonardo Fibonacci, Marin Mersenne.

Author/Presenter:	Dr. Meri Hughes
	Mathematics Department
	University of Mary Hardin-Baylor
	Belton, Texas

4. Education on Gigapixel Abundant-channel (GIANT) Image Analysis: Applications and Challenges

This article introduces the concept of GIANT (GIgapixel AboundaNT-channel) images, which are images with a minimum of one billion pixels and exceeding five channels. These images are obtained through advanced imaging technologies and are proficient in recording an extensive array of data, making them widely applicable in fundamental scientific research. However, the education on acquiring, applying, and analyzing GIANT images in college education presents several significant challenges.

- Q: How can we improve the accessibility of this important technology to 4-year colleges and K-12 schools?
- A: Close collaboration with R1 research institute.

Author/Presenter:	Dr. Yuankai Huo
	Computer Science Department
	Vanderbilt University
	Nashville, Tennessee

Thursday - June 08, 2023

Room:	Naio Room
Time:	11:00am - 12:30pm
Session:	Posters

5. Implementing the STEM Approach in the Curriculum in Secondary Schools. Case Study

This proposal is the result of the R+D+I research project GV/2021/126 "Implementation of the STEM approach in the development of competencies -EDUSTEM-" in the high school level. The educational policies established in the implementation of the STEM (Science, Technology, Engineering and Mathematics) educational approach are diverse; in general, they seek to improve the capabilities of their students in these areas and hope to improve in teaching methods and transform learning environments.

- Q: Is STEM competence developed in the curriculum of high schools?
- A: Most of the STEM teachers interviewed as well as high school principals are not sufficiently aware of the benefits of STEM education.

Author/Presenter:



Dr. Laura Monsalve Lorente Departement of Curriculum & School Organization Didactics and School Organization University of Valencia Valencia, Spain

6. Education for Sustainable Development : Comparitive Cases of U.S. Japan, & Ecuador

This poster presentation will compare current education policy and curriculum of Education For Sustainable Development, ESD from three countries, Ecuador, Japan, and US. The analysis will focus on how the goals and the method of achieving ESD UNESCO suggested are incorporated into their education policy and teaching practices, and how differences among these three countries reflects social, economic, political, cultural, and historical context of the nation.

Q: What should ESD look like in your community?

A: It should reflect culture, history, socio-economic, and political needs of the community.

Author/Presenter:



Dr. Kaoru Miyazawa Graduate School of Education Lesley University Cambridge, Massachusetts

Thursday - June 08, 2023

Room:	Naio Room
Time:	11:00am - 12:30pm
Session:	Posters

7. FRESH – A New Model for Retention of 1st-year Students enrolled in First Year STEM Courses at an Urban Public HSI

Summer and Winter Bridge programs engage students and prepare them to succeed in the gateway courses. It improves retention of content knowledge and laboratory skills and helps them to build important 21st century skills including collaboration, problem-solving, learning from failure and communication.

- Q: What is the purpose of implementing Summer and Winter Bridge programs for 1st year STEM courses?
- A: Summer and Winter Bridge programs engage students and prepare them to succeed in the gateway courses. It improves retention of content knowledge and laboratory skills and helps them to build important 21st century skills including collaboration, problem-solving, learning from failure and communication.

Authors/Presenters: Dr. Gabriela Smeureanu Chemistry Department Hunter College CUNY New York, New York Dr. Christina M. Medina-Ramirez Skirball Science Learning Center Hunter College CUNY New York, New York Dr. Jihye Lee Dr. Nicora Placa Ms. Christine Nick Department of Curriculum and Teaching Hunter College CUNY New York, New York

First-Year Retention and Equity in STE (FRESH)	M at Hunter
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Thursday - June 08, 2023

Room:	Naio Room
Time:	11:00am - 12:30pm
Session:	Posters

8. Preparing Pre-Service Teachers to Use S.T.E.A.M. to Promote Equity, Access and Agency in the Elementary Education Classroom

The purpose of the poster is to provide participants with strategies to address learning loss caused by the COVID 19 pandemic by preparing pre-service educators to use STEAM as a leverage for equity within their classrooms. The poster will equip educators with the knowledge, skills, evidence-based practices, and organizational strategies that they may use to support pre-service educators to amplify student agency using STEAM instructional practices in the elementary education classrooms.

- Q: How could teacher educators use STEAM instructional practices to prepare pre-service educators to promote equity, access and agency in the elementary education classroom?
- A: Reconceptualize our approach to preparing pre-service elementary school teachers by providing them with equitable and inclusive practices that improve educational outcomes and amplify student agency.

Author/Presenter:



Dr. Shanta Smith Rossier School of Education University of Southern California Los Angeles, California





Hawaii University International Conferences

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Room:	Naio Room
Time:	11:00am - 12:30pm
Session:	Posters

9. Hands-On Project-Based Learning in Aquaponics Builds Students' Confidence in STEM

This study explored the impact of an active aquaponics project-based learning program. The purpose of this case study was to assess students' perceptions, attitudes, and behaviors towards science, technology, engineering, and mathematics (STEM) careers.

Q: What was a positive outcome after students were exposed to the program?

A: Enhanced critical thinking and problem solving skills.

Authors/Presenters: Dr. Kenneth R. Thompson



Aquaculture Research Center Kentucky State University Frankfort, Kentucky **Prof. Kirk W. Pomper** College of Agriculture, Food Science, and Sustainable Systems Kentucky State University

Dr. Kenneth R. Thompson Frankfort, Kentucky

10. Statistical Analysis of Sled-pull Training Effects on Athletes' Force Velocity Profiles

The force velocity profile (FvP), which details the capacity to sprint and accelerate, is a determinant of success in soccer. This is the first study to detail FvPs in both male and female collegiate soccer players. By monitoring a 12-week sled pull training intervention, we statistically show that 30-meter sprint time and maximal horizontal speed (V0) improved in both male and female athletes. Maximal horizontal force (F0) and maximal power output (Pmax) only improved in male athletes.

- Q: What is one potential future direction of your project?
- A: We are currently looking to track more features of the athletes (sleeping patterns, diets, etc) to help predict their performances and prevent injuries.

Author/Presenter:



Dr. Junyuan Lin

Dr. Junyuan Lin Department of Mathematics Loyola Marymount University Los Angeles, California

Hawaii University International Conferences

Thursday - June 08, 2023

Room:	Naio Room
Time:	11:00am - 12:30pm
Session:	Posters

11. Understanding and Teaching Functions Using a Rigorous Approach

Calculus is the first important course for all students who want to pursue STEM education and career. However, many high school graduates who are accepted by colleges do not understand the function concept well and are not ready to take calculus. This paper will discuss the connection between learning and teaching functions and propose a rigorous approach to teach functions for mathematics majors including pre-service/in-service teachers.

Q: How to teach calculus for students who are not prepared for college?

A: Function concept and calculation skills could be the key factor.

 Authors/Presenters:
 Dr. Jing Zhang

 Prof. Dianna Galante
 Mathematics Department

 Division of Science Mathematics and Technology
 Governors State University

 University Park, Illinois
 Ms. Abbey Scupin

 Lemont Township High School District 21
 Lemont, Illinois

12. Comparison Study of Threshold Modeling Implementation in Python & R

Extreme Value Analysis (EVA) focuses on rare events in large datasets. The Generalized Extreme Value Distribution (GEV) and the Generalized Pareto Distribution (GPD) are two common probability distributions used in (EVA). Threshold Modeling is an important aspect of this analysis. Although R is commonly used for Threshold Modeling, this paper shows that a Python-exclusive library can perform all the necessary functions for this type of analysis.

- Q: To what real-world applications would this work apply?
- A: This work would apply to studying floods, earthquakes and even extremes in the volatile stock market.

Author/Presenter:



Mr. Mikhail Nauth Department of Data and Analytics NYC Health + Hospitals, USA Queens, New York

Continued on next page

Hawaii University International Conference

Thursday - June 08, 2023

Room:	Naio Room
Time:	11:00am - 12:30pm
Session:	Posters

13. What Works and Does Not Work in Large Classroom Teaching

Teaching a large class could be challenging at many different levels. The challenges are inside and outside the classroom. Large classroom can reduce students' sense of belonging in the classroom. Logistics are another major issue for teaching large classes. Classroom setup also plays an important role for students' active participation in classroom discussion. Also depending on the undergraduate teaching assistants, learning assistants' presence in the classroom could be important for activities

Q: Have you taught a 425 students class for Anatomy teaching?

A: If yes or not please come to the poster session to find out more.

Author/Presenter: **Dr. Shobnom Ferdous** Biological Sciences

Auburn University Auburn, Alabama

14. The Effect of Stress on Academic Achievement

Stress is a common problem for college students that may affect their academic lives. Stress can be defined as an individual's feeling of instability or unrest while facing difficulties or inability to complete tasks. This literature review synthesizes the findings of 20 recent, peer-reviewed empirical studies investigating the relationship between stress and academic achievement, sources of stress among students, and the differences in stress levels based on gender, major, and academic level.

- Q: Does stress impact negatively or positively academic achievement? Are there any gender differences between students in their academic stress?
- A: Also, differences were noted between students based on gender (females report higher stress levels than males).
- Authors/Presenters: Ms. Rawan Alzukari Dr. Kasia Gallo Educational Psychology Mississippi State University Starkville, Mississippi

Thursday - June 08, 2023

Room:	Naio Room
Time:	11:00am - 12:30pm
Session:	Posters

15. Community Resilience Engaging Advanced Training and Education (C.R.E.A.T.E) Project-A Multi-Disciplinary Approach to Emergency Management

The purpose of the Community Resilience Engaging Advanced Training and Education (C.R.E.A.T.E) will be to enhance the fields of Emergency Management (Technology concentration), Computer Science, Meteorology and Atmospheric Science, and Psychology so that underrepresented undergraduate minority students are highly qualified and prepared to successfully enter graduate programs and/or careers in Emergency Management with the S.T.E.M. emphasis, specifically, Emergency Management and/or Disaster Prep.

- Q: How does the multidisciplinary approach apply in Emergency Management?
- A: Multidisciplinary approach helps in covering the functions of Emergency Management and early warnings and notifications.
- Authors/Presenters: Dr. Jessica Murphy Technology Education Jackson State University Jackson, Mississippi Dr. Dawn McLin Department of Psychology Jackson State University Jackson, Mississippi



Hawaii University International Conferences

Thursday - June 08, 2023

Room:	Naio Room
Time:	11:00am - 12:30pm
Session:	Posters

16. Disparity of Covid-19 in Different Communities in Louisiana

The surge of covid-19-positive cases and mortality among different communities in the state of Louisiana are concerning. It has affected us in different ways: psychologically, physically (mobility restriction), socially, and economically. It is a global catastrophe and all of us are dealing with multiple challenges due to this. As of 9th April 2023, there are almost 1.6 million covid-19 cases and 18,984 people lost their lives in the state of Louisiana. This pandemic created tremendous pressure in healthcare with an unexpected surge in the demand (more than existing production capability).

Q: How did covid affect the different races and regions in Louisiana?

Authors/Presenters:



Dr. Babu Baniya Computer Science Bradley University Peoria, Illinois Dr. Vasanth Iyer Dept. of Computer Science & Information Technologies Grambling State University Grambling, Louisiana



Thursday - June 08, 2023

Science; STEAM	
Studies; Place/Land-	
based Education, Indigenous Knowledge; Education Policy and	

Session Chair: Dr. Lynette Williamson

I. Trauma Informed Pedagogy: New Horizons Post-pandemic

Trauma-Informed Pedagogy acknowledges that life crisis can impact learning and resilience. Application of specific teaching strategies can improve student learning and motivation. However, are there new challenges for Trauma-Informed strategies as we enter a post-COVID era? In this session, we will explore delivered teaching practices for effectiveness and engagement through a survey provided to our health professions students at University of Hawaii at West Oahu. We will review and analyze data.

- Q: Can Trauma-Informed practices assist in the transition from virtual to in-person learning?
- A: Yes. Collaboration, motivation, and confidence are improved.

Authors/Presenters:



Dr. Lynette Williamson Health Information Management Program University of Hawaii at West Oahu Kapolei, Hawaii



Dr. Garry Roy Health Information Management Program University of Hawaii at West Oahu Kapolei, Hawaii Hawaii University International Conferences

Thursday - June 08, 2023

Room:	Palolo 1
Time:	12:45 - 2:15pm
Session:	Curriculum, Research and Development & Health Science; STEAM
	Education; Teacher Education; Environmental Field Studies; Place/Land-
	based Education, Indigenous Knowledge; Education Policy and
	Leadership

Session Chair: Dr. Lynette Williamson

II. Teacher Candidates' Experiences in an Integrated STEAM Practicum Semester Based on a Curriculum of Place

The purpose of this research is to investigate how educators' experiences in field studies with community partners can inform an interdisciplinary STEAM teacher education program based on a curriculum of land/place. One challenge with land-based pedagogies is the role non-Indigenous peoples have in this approach to the decolonization of education. Our research, in a western Canadian context, explores this tension and seeks to consider varying perspectives of place as it informs STEAM pedagogies.

- Q: What are some ways you support a "Curriculum of Place"?
- A: "In a curriculum of place, young people or novices grow into knowledge through engagement in hands-on activities learning side-by-side with masters of the crafts. This knowledge enables people to find their way in that place where they dwell and this knowledge and these skills endow them with identity" (Chambers, 2008, p. 120)

Author/Presenter:



Dr. Kevin O'Connor Department of Education Mount Royal University Calgary, Alberta Canada

Thursday - June 08, 2023

Room:	Palolo 1	
Time:	12:45 - 2:15pm	
Session:	Curriculum, Research and Development & Health Science; STEAM	
	Education; Teacher Education; Environmental Field Studies; Place/Land-	
	based Education, Indigenous Knowledge; Education Policy and	
	Leadership	
	-	

Session Chair: Dr. Lynette Williamson

III. Bridging the World of Education with Gaming Culture

This research investigates the values, knowledge, and social capital of gamers with the purpose of helping educators better serve this population. This is a growing subculture of youth who are often denied equal access to resources compared to other extracurricular activities. Gaming has been stigmatized, but this research will highlight positive aspects of gaming and how education is missing out on ways to connect with and motivate our students.

- Q: How can educators better understand the subculture of gamers and utilize the funds of knowledge they possess in our classrooms?
- A: This presentation will share important demographics, common language, values, and practices of the global subculture known as "gamers." Preliminary data from an extensive study will be shared.

Author/Presenter:



Dr. Angela Macias Liberal Studies Department College of Education California State University, Dominguez Hills Carson, California

Hawaii University International Conferences

Thursday - June 08, 2023

Room:	Palolo 2
Time:	12:45 - 2:15pm
Session:	Science Education and Chemistry; Spatial Computational Thinking; IDV
	Visualization;
Session Chair:	Dr. Irosha N. Nawarathne

I. Relevance Matters, and It Creates the Right Chemistry Between the Material and Learner!

To improve the student retention and success, the educators have to find ways to make the content relevant by providing engaging examples build perception, mindset, and confidence. Relevance is known to improve the motivation to learn, therefore, it promotes meaningful learning over rote learning. In this presentation, a multitude of relevant practices in chemistry classes, from introductory to advanced levels, utilized in improving student learning are discussed.

- Q: What type of students get stimulated in learning when relevant examples are provided?
- A: All types and all levels of students which make the teaching and learning an inclusive opportunity.

Author/Presenter:

Dr. Irosha N. Nawarathne Department of Chemistry Lyon College Batesville, Arkansas



Thursday - June 08, 2023

Room:	Palolo 2
Time:	12:45 - 2:15pm
Session:	Science Education and Chemistry; Spatial Computational Thinking; IDV
	Visualization;
Session Chair:	Dr. Irosha N. Nawarathne

II. Teaching and Learning Spatial Computational Thinking with IDV Visualization of Weather Data: An Epistemic Cognition Perspect

Funded by NSF STEM+C program, the 3D Weather project designed and developed IDV visualization modules that aim to help middle and high school students develop spatial computational thinking through visualization of real weather data with IDV (Integrated Data Viewer). This paper reports findings from epistemic cognition data collected from the teacher and student participants from 3D Weather's third project year.

Q: What is spatial computational thinking?

A: It reflects the reliance of computational thinking on spatial thinking in geospatial analysis.

Authors/Presenters:Dr. Yan Sun
Dr. Lisa Thomas
Dr. Timothy Okunoye
Dr. Jamie Dyer
Dr. Jamie Dyer
Dr. Jean Mohammadi-Aragh
Instructional Systems & Workforce Development
Mississippi State University
Mississippi State, Mississippi



Mr. Jonathan Harris Northern Gulf Institute Mississippi State University Starkville, Mississippi

Thursday - June 08, 2023

Authors/Presenters:

Room:	Palolo 2
Time:	12:45 - 2:15pm
Session:	Science Education and Chemistry; Spatial Computational Thinking; IDV
	Visualization;
Session Chair:	Dr. Irosha N. Nawarathne

III. Measuring Spatial Computational Thinking: IDV Visualization of Weather Data

Funded by NSF STEM+C program, the 3D Weather project designed and developed IDV visualization modules that aim to help middle and high school students develop spatial computational thinking (S-CT) through visualization of real weather data with IDV (Integrated Data Viewer). The paper introduces the S-CT instrument developed by the project team to measure spatial computational thinking contextualized in IDV weather data visualization tasks.

Q: What is spatial computational thinking?

A: It reflects the reliance of computational thinking on spatial thinking in geospatial analysis.

Dr. Yan Sun
Mr. Jeremiah Nuatomue
Dr. Jamie Dyer
Dr. Jean Mohammadi-Aragh
Instructional Systems & Workforce Development
Mississippi State University
Mississippi State, Mississippi
Mr. Chase Robinson
Electrical & Computer Engineering Dept.
Mississippi State, Mississippi



Mr. Jonathan Harris Northern Gulf Institute Mississippi State University Starkville, Mississippi

Thursday - June 08, 2023

Room:	Palolo 3
Time:	12:45 - 2:15pm
Session:	Interdisciplinary

WORKSHOP

How Learning Works: 8 Research-Based Principles for Smart Teaching

One of the most important investments educators can do is to understand the learning process. This very interactive workshop synthesizes 60+ years of research on learning from the cognitive, motivational, developmental, and DEI perspectives into 8 integrated principles. Emphasis will be placed on experiencing activities that illuminate each of the principles and on generating pedagogical strategies for participants' educational context.

- Q: Why should I attend this interactive workshop?
- A: To understand how my students learn, so I can teach in a way that maximizes their learning.

Author/Presenter:	Dr. Michele DiPietro
	Center for Excellence in Teaching and Learning
	Kennesaw State University
	Kennesaw, Georgia



Thursday - June 08, 2023

Room:	Palolo 1
Time:	2:30 - 4:30pm
Session:	STEM Education; Industrial Engineering and Technology; Higher
	Education; Science, Chemistry Education

Session Chair: Prof. Buddhi Gyawali

I. Preparing the Pipeline of next-generation STEM Professionals: Experiences and Opportunities for Improvement

This presentation highlights the activities performed in the past two years, such as students' engagement in the mentors-guided experiential research and students' feedback, STEM awareness and readiness activities for high schools, and focused essential skills development efforts.

Authors/Presenters:



Prof. Buddhi Gyawali College of Agriculture, Community and Sciences Kentucky State University Frankfort, Kentucky Ms. Whitney Tara Maynard College of Agriculture, Community and Sciences Kentucky State University Frankfort, Kentucky **Prof. Jyotica Batra** School of Science, Technology, Engineering and Math Kentucky State University Frankfort, Kentucky **Prof. Chi Shen** School of Mathematics & Computer Science Kentucky State University Frankfort, Kentucky Ms. Gae Broadwater **GB** Facilitation & Training Works Kentucky State University Frankfort, Kentucky

Hawaii University International Conferences

Thursday - June 08, 2023

Room:	Palolo 1
Time:	2:30 - 4:30pm
Session:	STEM Education; Industrial Engineering and Technology; Higher
	Education; Science, Chemistry Education

Session Chair: Prof. Buddhi Gyawali

II. Inspiring Student's Interest in STEM Study through Engagement in Rocketry Research and Activities

Morgan State University received a grant award from BASE 11 foundation - a private organization in California, to establish the first rocket program at an HBCU in the USA. The first milestone of the MSU rocketry project is to build a Liquid Propellant Rocket to an apogee of 50,000 feet. The student airframe team under Dr. Chen has made good progress in rocket design especially airframe design and propulsion simulation. Student's interest in STEM has been significantly inspired by this program.

- Q: How can we inspire student's insterest in STEM study?
- A: Study in STEM is hard but important. Engaging students in the real application projects can inspire them.

Author/Presenter:



Dr. Guangming Chen Department of Industrial and Systems Engineering Morgan State University Baltimore, Maryland



Hawaii University International Conferences

Thursday - June 08, 2023

Room:	Palolo 1
Time:	2:30 - 4:30pm
Session:	STEM Education; Industrial Engineering and Technology; Higher Education; Science, Chemistry Education

Session Chair: Prof. Buddhi Gyawali

Authors/Presenters:

III. Career Preparedness: Discovering the Needs of Online Students Regarding Resources for Transitioning Out of College

This paper provides insight into Arkansas State University's online career center and methods to broaden student opportunities. The opportunities include assistance to obtain both in-person and remote employment after graduating. Specific research will focus on students preparing for graduation and their meeting preference, career type, and level. This research aims to assist program growth and pave the way for other universities to provide career assistance for online students.

- Q: What career assistance opportunities are provided to online students at Arkansas State University?
- A: Current resources provided to A-State Online students are both synchronous and asynchronous appointments for various needs, including resume and cover letter help, mock interviews, and, more recently, partnerships with corporations to help match students with jobs around the United States.

Mrs Stephanie Stanley Assoc. Director of Online Student Success Arkansas State University Jonesboro, Arkansas Dr. Thillainatarajan Sivakumaran Vice Chancellor of Enrollment Management and Global Outreach Arkansas State University Jonesboro, Arkansas



Hawaii University International Conferences

Thursday - June 08, 2023

Room:	Palolo 1
Time:	2:30 - 4:30pm
Session:	STEM Education; Industrial Engineering and Technology; Higher Education; Science, Chemistry Education

Session Chair: Prof. Buddhi Gyawali

IV. Engaging Students in Discussions Around Sustainability and Socio-Scientific Topics in Chemistry Classrooms

Making science relevant to students' lives, future careers, or societies by introducing controversial socio-scientific issues in classrooms motivates students to take more active roles in learning science. This study explored the influence of integrating two sustainability-oriented socio-scientific issues (SOS2Is) - alternative energies and nanotechnology- into the General Chemistry curriculum on 743 students' career aspirations and perceptions of science relevancy.

Q: How do sustainability-related socio-scientific issues influence students' affective domain?

Author/Presenter:	Dr. Ozcan Gulacar
	Department of Chemistry
	University of California, Davis
	Davis, California



Hawaii University International Conferences

Thursday - June 08, 2023

Room:	Palolo 3
Time:	2:30 - 4:00pm
Session:	Teacher Education, Higher Education, Urban and Regional Planning,
	Science Education, Mathematics Education

WORKSHOP

When We Thrive - Exploring the Identities of Black STEM Teachers During Their Teacher Preparation Experience

This session seeks to engage session participants in critical reflection about their identities, their community, and their agency in alignment with the three themes of this research to interrogate their communities as a first step to strengthen the Black STEM teacher pipeline and consider future research.

Author/Presenter:



Dr. Sherita Flake School of Education American University Washington, DC



ACKNOWLEDGEMENT

Hawaii University International Conferences would like to thank the following people and organizations who have made our 2023 Science, Technology & Engineering, Arts, Mathematics and Education Conference a success!

Maps: Courtesy of Hawaii Visitors & Convention Center

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We would like to extend our heartfelt appreciation to our sponsor the **Pacific Fleet Submarine Museum, 11 Arizona Memorial Drive, Honolulu**. With their support we are able to improve the the conferences to better serve our attendees and presenters allowing us to provide a platform for their academic pursuit and discovery.

Keynote Speakers

We would like to thank **Dr. Anjan Biswas** for sharing his knowledge and skills with us. Dr. Biswas is an Endowed Chair of Mathematics, Department of Mathematics and Physics at Grambling State University, Grambling, Louisiana.

We would like to thank **Prof. Kwame Badu Antwi-Boasiako**, **PhD.** for sharing his knowledge and skills with us. Prof. Antwi-Boasiako is the Chair of the Department of Government and professor of Public Administration and Political Science at Stephen F. Austin State University, Nacogdoches, Texas.

REVIEWERS

We thank the dedicated professionals who reviewed the papers submitted by our presenters to be included in our programs, for the conference proceedings. Your work is of utmost importance to make sure those accepted meet the highest academic standards of presentation.

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Allen, Dr. Donald Texas A&M University

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THE SESSIONS CHAIRS

Thanks to all the Session Chairs for your guidance of the participants and presenters in each session to maximize the experiences of the session attendees, to convey the thoughts and new ideas each brings to our conference. All timely presentations are important to expand the overall knowledge offered from many perspectives.

- Prof. Antwi-Boasiako, Kwame Badu Dr. Biswas, Anjan Dr. Dhand, Ruby Dr. Fowler, Denver Dr. Gardner, Bill Dr. Gupta, Shilpa Prof Gyawali, Buddhi Dr. John, Richard
- Dr. Jones, Kim McGarraugh Dr. Nawarathne, Irosha N. Prof. Ostaszewski, Krzysztof Dr. Quezada, Jazmin Dr. Schwab, Emil Daniel Dr. VanDeGrift, Tammy Dr. Williamson, Lynette Dr. Zaklan Duff, Stefanie

Some of Our Participants



Dr. Shin-ying Huang National Taiwan University Taipei, Taiwan



Dr. Nora Strasser Friends University Wichita, Kansas



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Dr. Lynette Williamson University of Hawaii at West Oahu Kapolei, Hawaii



Dr. Garry Roy University of Hawaii at West Oahu Kapolei, Hawaii



Prof. Yukinobu Miyamoto Kobe Gakuin University Hyogo, Japan



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Mr. Jonathan Harris Mississippi State University Starkville, Mississippi



Dr. Sherita Flake American University Washington, DC



Prof. Bill Gardner Marshall University Huntington, West Virginia



Prof. Marla Hunter Hooper Johns Hopkins University Baltimore, Maryland



Prof. Eulanda Seals American University Washington, DC



Dr. Nabarun Ghosh West Texas A&M University Canyon, Texas



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Dr. Won Sun Chen Swinburne University of Technology Hawthorn, Victoria Australia



Prof. MengLin Chen Chang Jung Christian University Tainan City, Taiwan

We also want to thank each and every one who attended our conference for their contributions to the knowledge bases presented and the interactions of the attendees who generously shared their knowledge and expertise to enhance the conference experience for all who attended. We hope to see all of you back in Hawaii again one day in our continuing effort to bring those together in conferencing here in this magnificent environment as we look to the future of educational efforts in all parts of the world!

Mahalo!





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