GURC Schedule
November 11 & 12, 2022

All face-to-face events will be held in the VSU Student Union. Parking is in the Oak Street Parking lot across the street.

All Webinar events will take place in our VSU Undergraduate Research room. https://us.bbcollab.com/guest/e3949ee149064c7fa1f0461e5b4d7724

Friday—Face-to-Face
November 11, 2022

2:00-3:00 Opening Panel Discussion—Moderator Dr. Anne Price
3rd Floor Ballroom A

“Discussions of Econometric Research Projects”

Speakers: Alexandra Redfearn, Alan Michael Bennett, Paul Wagner and Hannah McDaniel

Sponsor: Dr. Zulal Denaux, Professor of Economics
Harley Langdale Jr. College of Business
Valdosta State University

3:00-5:00 Conference Registration Open—3rd Floor outside Ballroom A

All participants need to stop by and sign in to ensure you have conference information and passes for food.

4:00-6:00—Reception for Registered Participants and Registered Guests
3rd Floor Ballrooms B & C

4:00-6:00 Georgia Graduate Schools will be present to answer questions.

5:00 President Dr. Richard Carvajal—Open 2022 GURC
Provost and Vice President for Academic Affairs—Dr. Robert Smith--Welcome
GURC President/VSU URC Chair Dr. Lavonna Lovern—Thank You
Door Prizes Awarded

6:00-6:30—GURC Meeting—open to all
3rd Floor Ballroom A https://us.bbcollab.com/guest/e3949ee149064c7fa1f0461e5b4d7724
Saturday
November 12, 2022
Face-to-Face

7:30-8:30  Registered Participant/Guest Breakfast
Registration Open
3rd Floor Ballroom B & C

8:00-8:50
3rd Floor Ballroom A—Moderator Dr. Gayle Ramirez

Developing New Medications for Monkeypox; a QSAR-driven Discovery Approach

Yash Patel and Taylor Taylor
Sponsor: Dr. Thomas Manning
Valdosta State University

Worlds within Worlds: Heterotopias in Kazuo Ishiguro’s “Never Let Me Go”

Laura Northup
Sponsor: Dr. Theresa Thompson
Valdosta State University

Mothers and Mirrors: The End of Alice and The City Son

Georgia J. Wynn
Sponsor: Dr. Adam Wood
Valdosta State University

3rd Floor Meeting Room 1—Moderator Dr. A.J. Ramirez

The Perverse Principles of Poetry:
Examining the Bleak Truth in ‘Richard Cory’ and ‘The Raven’

Leigh Ann Overlaur
Sponsor: Dr. Ubaraj Katawal
Valdosta State University

Developing Paraffin Histological Technique for Mosquito

Yasmin Guzman
Sponsor: Dr. Theodore A. Uyeno
Valdosta State University
Political Party Affiliation and the Significance of Race: How Race is Correlated with Political Party Identification

Justus Robinson
Sponsor: Dr. Bernard Tamas
Valdosta State University

Temporal Shifting in Post-Modern Native American Literature

Tyler Cosper
Sponsor: Dr. Ubaraj Katawal
Valdosta State University

3rd Floor Meeting Room 2-- Dr. Glenda Swan

Literature as a Political Weapon in Latin America

William Steinberg
Sponsor: Dr. Ericka Parra
Valdosta State University

The Implementation of RFID in an Attendance System

Cravon A. Mallory, Jr.
Sponsor: Dr. Chunlei Liu
Valdosta State University

Super Shellfish: How Oyster Restoration Can Help Save Our Oceans

Madeline Pond
Sponsor: Dr. Thomas J. Manning
Valdosta State University

Teaching History through Video Games

Hannah Stanley
Sponsor: Dr. Thomas Aiello
Valdosta State University

9:00-9:50

3rd Floor Ballroom A—Moderator Dr. Anne Price

The Impact of COVID-19 on Women-Led Small Businesses

Lizbeth Avendano
Sponsor: Dr. Katia Galdino
Georgia Southern University
Prototyping a UWG-Centric Smart Assistant to Support Student Life

Steven G. Kight
Sponsor: Dr. Ana Stanescu
University of West Georgia

Sex Differences in Renal Mitochondrial Function of Young Healthy Rats

Adam Jones and Ryan Schibalski
Sponsor: Dr. Daria V. Ilatovskaya
Medical College of Georgia, Augusta University

A Phrenological Reading of Whitman’s “Song of Myself”

Ryan Bohn
Sponsor: Dr. Cody Marrs
University of Georgia

3rd Floor Meeting Room 1—Moderator Dr. A.J. Ramirez

Whose Narrative Is It?: The Intrusive Imagination of White Transcribers and Editors in African American Narratives

Andrea Merritt
Sponsor: Dr. Leslie Whitmire
Georgia State University

Securing Belonging: The Triumphs and Tribulations of Church-to-Mosque Conversion in Hamburg, Germany

Hannah Kreuziger
Sponsor: Dr. Florian Pohl
Oxford College/Emory University

Examining Pain Levels in Competition and Performance Female Athletes

Sylvia Clark, Elizabeth Niswonger, Christina Snider and Molly Dyer
Sponsor: Dr. Kelly P. Massey
Georgia College and State University

Social Media Usage and Uncertainty Intolerance

J’Maica Frame-Cabell
Sponsor: Dr. Chia-Ling Lynn Ho
Valdosta State University
3rd Floor Meeting Room 2—Moderator Dr. Gayle Ramirez

Persistent Nematode: Fact or Fiction

Darius Ruff
Sponsor: Dr. Kyle Slusher, USDA ARS
Fort Valley State University

Realismo Mágico y Trauma: El Corazón Acuoso de “La Muñeca Menor”
(Magical Realism and Trauma: The Watery Heart in “The Youngest Doll”)

Georgia J. Wynn
Sponsor: Dr. Ericka Parra
Valdosta State University

The Philosophy of Winning: Leadership and Culture within Sport

Ashton Jones-Obikpo
Sponsor: Dr. Lavonna Lovern
Valdosta State University

1st Floor Theater—Moderator Dr. Grazyna Walczak

Visual/Art/Performance Presentations

Black Madonna: Alexander Baumgarten’s Aesthetical and Contemporary Application

Darrin Johnson
Sponsor: Laura McCloskey Wolfe
University of West Georgia

Drawing a Dot: Can A Community Create an Exhibition?

Lara Henry, Courtney Robinson, and Kaylin Kretzschmar
Sponsor: Dr. Jenny Evans
Valdosta State University

Producing Educational Videos to Help Local Educators and Schools in the Coastal Plain RESA

Chonetele Abney, Avery Barnett, Jamie Collins, Nathan Harrell, Ethan Lowe, Brooke Meindl, Kaya Purcell, and Brianna West
Sponsor: Dr. Colin M. Walker
Valdosta State University
10:00-10:50

3rd Floor Ballroom A—Moderator Dr. Anne Price

*A Co-Culture Between Genetically Modified C. minutissima and E. coli for Efficient Biofuel Production*

Devadutta Balaji, Aliyah Bujong, Elizabeth Plumart, Chloe Benjamin, Pierre Manuel, and Bita Ongolo
Sponsor: Dr. Matthew Brewer
Georgia State University

*Transforming Taboo: Discursive and Generic Uptake in South Asian Mental Health Recovery Narratives*

Anusha Kothari
Sponsor: Dr. Gwendolynne Reid
Oxford College/Emory University

*Sino-American Competition in the Field of Artificial Intelligence*

Timothy Sabau
Sponsor: Dr. Daewoo Lee
Columbus State University

*Cultural Research Strategies for Contemporary International Advertising*

McKenzie Simpson
Sponsor: Evelyn Davis-Walker, MFA
Valdosta State University

3rd Floor Meeting Room 1—Moderator Dr. Ahana Roy Choudhury

*The Use of Photovoice Technique to Explore Veteran Identity: a Qualitative, Community-based Participatory Action Research Model*

Joseph Pabian, Trenholm Fahy, Alicia Zarker, Elizabeth Schultz, Lauren Ernst-Fortin, and Meredith Robertson
Sponsor: Dr. Stephanie Jett
Georgia College and State University

*What Really Matters in Effective Teaching?*

Abigail Cannon
Sponsor: Dr. Yan Yang
University of West Georgia
Are Eyewitnesses to Crime Reliable?

Kelsey Mock
Sponsor: Dr. F. E. Knowles, Jr., MJIL, J.D.
Valdosta State University

Why Do People Commit Crimes?

Caleb Acoff
Sponsor: Dr. Fred Knowles, Jr. MJIL, JD
Valdosta State University

3rd Floor Meeting Room 2—Moderator Dr. Lorena Aquirre Salazar

Carabelli’s Trait in Apes and Old-World Monkeys

Victoria Hogans
Sponsor: Dr. Frank L’Engle Williams
Georgia State University

A Novel Approach to the Treatment of Cancer: Accelerate Its Growth

Capri Persaud and Akshil Patel
Sponsor: Dr. Thomas Manning
Valdosta State University

A Novel Complex for Treating Melanomas in Horses

Hannah Sorrow
Sponsor: Dr. Thomas Manning
Valdosta State University

1st Floor Theater—Moderator Dr. Grazyna Walczak

Visual/Art/Performance Presentations

“4 of Costs” Alternative Altar Project: Plastic Pollution and Its Impact on the Environment

Ari Saucier
Sponsor: Kaleena Stasiak, MFA
Valdosta State University

Abandoning Ariadne: Visual Variations of Myth in Art

Marybelle Caldwell
Sponsor: Dr. Glenda Swan
Valdosta State University
How They See Us: Violence and Harm Depicted against Black and Queer Bodies in Mass Media

Shanya Jackson
Sponsor: Dr. Theresa Thompson
Valdosta State University

11:00-11:50

3rd Floor Ballroom A—Moderator Dr. Glenda Swan

Mathematical Modeling of Different Pest-Control Strategies

Kelsey Cadenhead
Sponsor: Dr. Susmita Sadhu
Georgia College and State University

Experiencing Art and Gallery Culture

Ari Saucier
Sponsor: Dr. Shelly Yankovskyy
Valdosta State University

Spatial Analysis of Vaccine Policy and Coronavirus

Elizabeth A. Thornton and Jodeci L. Mitchell
Sponsor: Dr. Jia Lu
Valdosta State University

Dual-Modality Deep Learning for Predicting Traffic Congestion Duration

Alexander Schmidt
Sponsor: Dr. Ana Stanescu
University of West Georgia

3rd Floor Meeting Room 1—Moderator Dr. Ahana Roy Choudhury

A Study on the Unemployment Rates in the U.S. during the COVID-19 Pandemic by Using Topological Data Analysis and Persistence Theory

Callie N. Reid
Sponsor: José A. Vélez-Marulanda
Valdosta State University

Inhalation Method for Treatment of Lung Cancer

Taylor Macera
Sponsor: Dr. Thomas Manning
Valdosta State University
The Effect of the Soul Swim Cap on the Assessment of Percent Fat Estimate by Air Displacement Plethysmography: A Pilot Study

Briana Thompkins
Sponsors: Dr. Mark J. Kasper and Dr. Lois Bellflowers
Valdosta State University

3rd Floor Meeting Room 2—Moderator Dr. Lorena Aquirre Salazar

The Literature of Siu Kam Wen and Julia Wong Kcomt: Disrupting Universalism in Peru’s Popular Narratives

Maria-Paula Ramirez Wong
Sponsor: Dr. Randy Malamud
Georgia State University

Creation of a Software Archive for the Museum of Technology

Ryan Ashford, Rachel Breland, and Patricia Starkey
Sponsor: Dr. Tina K. Ashford
Middle Georgia State University

Robert Colescott’s Remodeling of Greek Myth

Avery Barnett
Sponsor: Dr. Glenda Swan
Valdosta State University

Developmental Coordination Disorder: One of the "Other" Twice-Exceptionalities

Jamaceo Rhodes
Sponsor: Dr. Ophélie A. Desmet
Valdosta State University
12:00-12:50 Lunch—3rd Floor Ballrooms B & C

Keynote Address

Adventures in Undergraduate Research

Dr. James LaPlant
Dean of the College of Humanities and Social Sciences
Valdosta State University

(Oral Sessions beginning at 1:00 are listed after the Poster Session)

1:00-4:00—Poster Presentations—Moderator B. Cordell Moats
2nd Floor past Starbucks

A Comparative Study of Genomic DNA Extraction Methods from Arabidopsis thaliana

Julio A. Rodil
Sponsor: Dr. Lokdarshi
Valdosta State University

Aircraft Runway Tracking and Navigation Using Ultrasonic Positioning Beacons

Kody Pierce and Shaen Mehrzed
Sponsor: Dr. Valentin Soloiu
Georgia Southern University

A Mathematical Study of Popular Music

Tristin Sahagun, Caleb Epps, and Michael Cartier
Sponsors: Dr. Denise Reid and Dr. Lorena Aguirre Salazar
Valdosta State University
An Integrated Approach to the Biodiversity and Conservation of Odontotaenius disjunctus and O. floridanus (Cleoptera: Passalidae)

Katelyn Enderle
Sponsor: Dr. Frank M. Fontanella
University of West Georgia

A Novel Non-Invasive Method for Imagining Seeds in Arabidopsis thaliana siliques

Brylie Ritchie and Chase McLeod
Sponsors: Dr. Theodore Uyeno and Dr. Ansul Lokdarshi
Valdosta State University

A Novel Puzzle to Familiarize Students with the Periodic Table

Paige Bland
Sponsor: Dr. Thomas Manning
Valdosta State University

A Pilot Study on Mental Health Treatment Preference in Veterans With Post-Traumatic Stress Disorder (PTSD)

Elizabeth Schultz and Meredith Robertson
Sponsor: Dr. Stephanie E. Jett
Georgia College and State University

A Quantitative Analysis of Blood Lead Levels and Associated Factors in U.S. Adults

Osjah Ragin
Sponsors: Dr. Yudan Wei and Dr. Jianmin Zhu
Fort Valley State University

A Quantitative Investigation of the Effectiveness of 3D-Printed Plastic Natural Convective Heatsinks Using Computational Fluid Dynamics

Shyra LaGarde
Sponsors: Dr. Gregory Michna and Dr. Stephen Gent
South Dakota State University
Valdosta State University

Assessing County Food Environment Using the Healthy Food Assessment Index

Amelia Glaser and Madeline Meiser
Sponsor: Dr. Damian K. Francis
Georgia College and State University
Beliefs about the Behavior of Children from Single-Parent Families

Nybraiah Gudes
Sponsor: Dr. Anne Price
Valdosta State University

Biomonitoring for Presence of Zebra Mussels (Dreissena polymorpha) in Lake Lanier using Environmental DNA (eDNA)

Hannah Fontenot and Amy Rodriguez
Sponsor: Dr. Margi Flood
University of North Georgia

Can Painting Nest Boxes Provide a Cooler Environment for Breeding Eastern Bluebirds?

Mathew Gordon
Sponsor: Dr. Katie Stumpf
Georgia College and State University

Carotenoid Extraction using an Emerging Green Approach

Alexa Luna
Sponsor: Dr. Gopeekrishnan Sreenilayam
Valdosta State University

Cloning of an Aquaporin Gene into E. coli

Princess Wynn
Sponsor: Dr. Donna L. Gosnell
Valdosta State University

Compost in Soil Analysis at Georgia College and State University

Shannon E. Northen, Isabella Banich, and Savannah Kimbrell
Sponsor: Dr. Allison Rick VandeVoort
Georgia College and State University

Computational Analysis of UDP-glycosyltransferase Variation across Strains of Caenorhabditis elegans

Aleya Johnson
Sponsor: Dr. Dwayne Daniels
Fort Valley State University
Conductivity Analysis of Poly (ethylene oxide) Containing Boron Cross-link Electrolytes for Lithium-Air Batteries

Emily Emilien and Kymani Williams
Sponsor: Dr. Dwayne Daniels
Fort Valley State University

Corrective Feedback in Second Language Acquisition: an Examination of the Research on Recasts

Mark Mears
Sponsor: Dr. Victoria Russell
Valdosta State University

Cyanogel Templating Method for the Synthesis of Pd-Ni Bimetallic Alloy Catalyst for CO2 Reduction

Karli M. Icard
Sponsor: Dr. Tolulope O. Salami
Valdosta State University

Determining the Ration of Praise to Correction Statements in a High School Classroom

Katie Reece and Caroline Cibulskas
Sponsor: Dr. Kymberly Harris
Georgia Southern University

Developing a Non-Invasive Morphological Technique to Study Vertebral Element Heritability in the Dwarf Seahorse, Hippocampus zosterae

Thomas Wilson
Sponsors: Dr. Emily Rose and Dr. Ted Uyeno
Valdosta State University

Development of Alternate Visual Resources for Color Vision Deficient Individuals: a Pilot Study

Alena Pfeifer
Sponsors: Lynsey Steinberg, MSMI, CMI and Dr. Soma Mukhopadhyay
Augusta University

Drone Control Using Facial Gestures and Long Short-Term Memory (LSTM) Networks

Shaen Mehrzed, Joshua Hale, Destinee Hicks, Darryl Wiltz, Noah Dyer, and Akintomide Adebile
Sponsor: Dr. Rocio Alba-Flores
Georgia Southern University
Enceladus: Analysis of Hydrothermal Vents as a Possible Reservoir for Life beyond Earth

Sam Panzica and Ian Mclean
Sponsor: Dr. Martha Leake
Valdosta State University

Exploring Optimism and Mental Health Symptoms

Isabella Sineo
Sponsor: Dr. Carmen Brown Farrell
University of South Carolina-Beaufort

Expression and Purification of HphB and ArAT: Enzymes in the L-Phenylalanine Homologation Pathway

Juan-Paolo Reynes
Sponsor: Dr. Shogo Mori
Augusta University

Extraction of Carotenoids Using Non-ionic Deep Eutectic Green Solvents

Maria V. Alvarez and Lizett Rubio
Sponsors: Dr. Gopeekrishnan Sreenilayam and Dr. Ligia Alexandrina Focsan
Valdosta State University

Food Deserts and Food Insecurity in Valdosta, Georgia

Zy’Ronica Lindsey
Sponsor: Dr. Anne Price
Valdosta State University

Gender Differences Related to Teacher Engagement

Megan Foster, Avery Hendrickson and Jaheim Laws
Sponsor Dr. Kymberly Harris
Georgia Southern University

Gaps in Women’s Leadership and Pay Across 26 University System of Georgia Institutions

Tanisha Goldsboro
Sponsor: Dr. Anne Price
Valdosta State University
How Does Gender and Birth Order Affect Family Responsibility in Latinx Immigrant Families?

Anahi Santiago
Sponsor: Dr. Anne Price
Valdosta State University

Implementation of a Hairpin Model Based Passive Microwave Tag Using Microstrip Structure

William Logan Spooner
Sponsor: Dr. Shantanu Chakraborty
Valdosta State University

Individual Differences in COVID-19 Perceptions and Risk-Taking

Graison Conn
Sponsor: Dr. Meagan M. Wood Hopkins
Valdosta State University

Inhalation Method for Treatment of Lung Cancer

Taylor Macera
Sponsor: Dr. Thomas Manning
Valdosta State University

It’s Just Pop Culture: The Appropriation of Black Aesthetics in the Music Industry

Dominique A. Pollard
Sponsor: Dr. M. Denise Lovett
Valdosta State University

Investigating Moral Judgements of Consensually Non-monogamous Relationships

Traveres Cox
Sponsor: Dr. Mark A. Whatley
Valdosta State University

Laboratory Activities with a Forensic Chemistry Focus

Denetria Thomas
Sponsor: Dr. Linda de la Garza
Valdosta State University
LGBTQ Television Creator Chris Nee: One Women’s Efforts to Diversify Characters on the Small Screen

Gabrielle Jones
Sponsor: Anna Weinstein, MFA
Kennesaw State University

Measuring Reproductive Quality in Wild-Caught Dwarf Seahorses (Hippocampus zosterae)

Taylor Taylor
Sponsor: Dr. Emily Rose
Valdosta State University

Mechanics of Inductive and Capacitive Sensors

Roberto Montiel
Sponsor: Joshua Whittington
Wiregrass Georgia Technical College
Valdosta State University

Momentary Assessment of Research Learning Experiences Project (MARLE)

Tionee Adams
Sponsor: Dr. Erin L. Dolan
Fort Valley State University

Monitoring the Mortality of Gopher Tortoises (Gopherus polyphemus) and the Reliability of Passive Integrated Transponders (PIT tags)

Jazmin Borges and Nicole Woolridge
Sponsor: Dr. J. Mitchell Lockhart
Valdosta State University

Observations of Verrucose Hyphae of Nothopassalora personata and Its Pigmented Phytotoxin

Atalya Manchester
Sponsor: Dr. Emily Cantonwine
Valdosta State University

On-Campus Greenspaces in Aiding Student Mental Health

Nicole Woolridge
Sponsor: Dr. Shelly Yankovskyy
Valdosta State University
Optimization of DNA Extraction for Genome Sequencing of the Invasive Mussel Mytella charruana

Jacob C. Adams
Sponsor: Dr. Cristina Calestani
Valdosta State University


Taylor Macera
Sponsor: Dr. Thomas Manning
Valdosta State University

Personality, Perceived Stress, and Resilience

Samantha Taylor
Sponsor: Dr. Carmen Brown Farrell
University of South Carolina-Beaufort

Power Supply Utilizing Seebeck Effect Generators and Thermal Batteries Developed from Lunar Materials

James O’Hara
Sponsor: Dr. Valentin Soloiu
Georgia Southern University

Practical Solutions of Circular Doubly Linked List Implementation

Caleb Epps and Alessa Castillo
Sponsor: Dr. Anurag Dasgupta
Valdosta State University

Purification of Aquaporin Protein from the Sea Lettuce Ulva lactuca

Shelby Raybon
Sponsor: Dr. Donna L. Gosnell
Valdosta State University

Role of Regulatory mRNA Structures in the Expression of Cancer-Related Genes

Alexandra Furney, Brittany Benner, Jin Yeong Kim
Sponsor: Dr. Arnab Sengupta
Georgia College and State University
Role of Translational Regulation (Messenger RNA to Protein) in the Plant Defense Hormone, Salicylic Acid Signaling

Daniel Rincon Diaz  
Sponsor: Dr. Ansul Lokdarshi  
Valdosta State University

She Said WHAT? The Effects of Confessor Sex and Breakup Reasons on Public Judgement

Jose A. Palacios Gonzalez  
Sponsor: Dr. Mark A. Whatley  
Valdosta State University

Sociability and the Drosophila Microbiome

Peyton Panos  
Sponsor: Dr. Emily McLean  
Oxford College/Emory University

Social Experience and Mating Success across Genotypes in Drosophila Melanogaster

Ian Goldman  
Sponsor: Dr. Emily McLean  
Oxford College/Emory University

Super Shellfish: How Oyster Restoration Can Help Save Our Oceans

Madeline Pond  
Sponsor: Dr. Thomas J. Manning  
Valdosta State University

Stability and Activity of Engineered Myoglobin Biocatalyst in Deep Eutectic Solvents at Different Conditions

Dipa Patel  
Sponsor: Dr. Gopeekrishnan Sreenilayam  
Valdosta State University

Stigmatizing Sexuality: Public Support for Restrictions on Blood Donation for Men Who Have Sex with Men

Brandon Booker  
Sponsor: Dr. Anne Price  
Valdosta State University
Synthesis and Characterization of a Furfural Derived Semi-Rigid Diol

Mason Jones
Sponsor: Dr. Rahul Shahni
University of North Georgia

Synthetic Studies to a Novel Pyrimidodiazepine-based Anti-folate as a Potential Anti-Cancer Drug

Christian McDowell
Sponsor: Dr. Partha S. Ray
University of West Georgia

Taking on Monkeypox with a Novel Anti-Viral Strategy

Madelyn Adair, Sara Taylor, and Daniel Rincón
Sponsor: Dr. Thomas Manning
Valdosta State University

The Dynamic Formation of Nuclear RNA Foci in Proliferating Fibroblast Cells Derived from ALS patients

Robert Garrard
Sponsor: Dr. Yao Yao
University of Georgia

The Neural Circuits Underlying Evasive and Scavenging Behaviors in Eisenia fetida in Oxford, Georgia: The Effects of Interneuron AIB on the Reversal-Omega Turn Behavior

Rebecca Urato
Sponsor: Richmond Thompson
Oxford College/Emory University

The Risk at Birth: Racial Health Disparities Among Pregnant Black Women

Doreen Okeh
Sponsor: Dr. Jenny Mischel
Oxford College/Emory University

The Use of Behavior Specific Praise in a Secondary Math Classroom

Caroline Ray and Macee Chappuis
Sponsor: Dr. Kymberly Harris
Georgia Southern University
“Tick-Tock!” for Women, Gender Expectations in Marriage as Presented by Company: The Musical

Ella Risa Marroquin
Sponsor: Chalise Ludlow, MFA
Valdosta State University

Tracer Dilution Studies in Coal Creek, Colorado, to Predict Metal Transport

Jenelle Cockerham, Kenneth Swift Bird, and Dayana Arrue
Sponsor: Dr. Kamini Singha
Fort Valley State University

Using Deep Learning to Develop an Android App for Image Segmentation

Alessa Castillo
Sponsor: Dr. Ahana Roy Choudhury
Valdosta State University

Voices from Tohoku: Oral Narrative Video Translation Project

Kirstie Carson
Sponsor: Dr. Robin O’Day
University of North Georgia

1:00-1:50
3rd Floor Ballroom A—Moderator Dr. Karen Acosta

The Therapeutic Value of Cinematic Storytelling: A DBT-Based Interpretation of “Eternal Sunshine of the Spotless Mind”

Haley Hunt
Sponsor: Anna Weinstein, MFA
Kennesaw State University

The Necessity of Hands-On Science through the Lens of Non-traditional Teaching

Raya Schilke
Sponsor: Dr. Gayle Ramirez
Valdosta State University

Generating Features for Machine Learning Study of Cyclotides

Rachel Schaffer
Sponsor: Dr. Sairam Tangirala
Georgia Gwinnett College
Confidence and Social Interactions
Emily E. LaPierre
Sponsor: Dr. Chia-Ling Lynn Ho
Valdosta State University

3rd Floor Meeting Room 1—Moderator Dr. Ahana Roy Choudhury

Compostability on Campus: A Pilot Project for Assessing the Effectiveness of Compostable Dishware
Isabella Banich
Sponsor: Dr. Allison Rick VandeVoort
Georgia College and State University

Bellowing and Sound Recognition in American Alligators (Alligator mississippiensis)
Ciara A. Rowe, Karla Lumbard, and Daniel Holt
Sponsor: Dr. Michael W. Dentzau
Columbus State University

Unraveling the Rapid Signaling of Versatile Plant Stress Hormone, Methyl Jasmonate (MeJA)
Teressa Konyo Akuoko
Sponsor: Dr. Anslul Lokdarshi
Valdosta State University

3rd Floor Meeting Room 2—Moderator Dr. Glenda Swan

Modelling Acid Rain in Laboratory Conditions
Aidan Moses Simmons
Sponsor: Dr. Tzvetelin D. Iordanov
Georgia Southwestern State University

Investigating the Effects of Algal Turbidity on the Dwarf Seahorse (Hippocampus zosterae) Mating System
Darshi N. Patel
Sponsor: Dr. Emily Rose
Valdosta State University

The Great Resignation: What are the Factors That Caused People to Quit Their Jobs across the 50 States?
Nyla Cyan Williams
Sponsor: Dr. James LaPlant
Valdosta State University
2:00-2:50
3rd Floor Ballroom A—Moderator Dr. Karen Acosta

**Bioluminescent Bacteria and Its Correlation with Virulence in Wax Worms**

Miranda Mensah  
Sponsor: Dr. Colin Wong, USDA ARS  
Fort Valley State University

**Settler Colonialism in Palestine: How Settler Colonial Identities Inform Historical Narratives and Understandings**

Jessica Cloud  
Sponsor: Dr. Leslie Whitmire  
Georgia State University

**From Victory Gardens to Inflation Gardens: Investing in Our Backyard to Combat Food Insecurity, Increase Income, and Reduce Inflation**

Heather A. Chason and Michael A. Carter  
Sponsor: Dr. Fady Mansour  
Columbus State University

**Conductivity Analysis of Poly (ethylene oxide) Containing Boron Cross-link Electrolytes for Lithium-Air Batteries**

Emily Emilien and Kymani Williams  
Sponsor: Dr. Dwayne Daniels  
Fort Valley State University

3rd Floor Meeting Room 1—Moderator Dr. Chi-Ling Ho

**Hyperoxia Injury Alters the Expression of Collagen Type IV in the Developing Lung**

Yeongseo Son  
Sponsor: Dr. Jennifer M. S. Sucre  
University of Georgia  
Vanderbilt University

**Reaching Out and Lifting Up: Peer Mentoring in Teacher Education**

Myah Anderson  
Sponsor: Dr. Rhonda Amerson  
Georgia State University
Planned Parenthood:  
Structural Evolution and Organizational Change

Sana Punjani  
Sponsor: Dr. Eric Solomon  
Oxford College/Emory University

Customized Model for Fatty Acid Selection to Treat Any Viral Infections

Corey Q. Barron  
Sponsor: Dr. Thomas Manning  
Valdosta State University

3rd Floor Meeting Room 2—Moderator Dr. James LaPlant

Covert Resistance to #MeToo: The Uptake of Social Change and Public Anxiety in the Men's Lifestyle Magazine Cover Genre

Mercedes Sarah  
Sponsor: Dr. Gwendolynne Reid  
Oxford College/Emory University

How Chemistry Can Fight NDD

Cheyenne Stapleton and Lindsey Henderson  
Sponsor: Dr. Thomas Manning  
Valdosta State University

Optimal School Garden Model Strategies to Combat Food Insecurity

Jami Nakan  
Sponsor: Dr. David Patterson  
University of North Georgia

3:00-3:50
3rd Floor Ballroom A—Moderator Dr. Charles Talor

Utilizing Mathematical Modeling to Approximate Tumor Growth

Michal McAlpine  
Sponsor: Dr. Patcharin Tragoonrisak Marion  
Fort Valley State University
“In the Blood”: Decoding and Understanding the Nature of Systemic Violence through the Works of Dr. Sindiwe Magona

Elijah Byrd
Sponsor: Dr. Renée Schatteman
Georgia State University

Analysis of Copper-Catalyzed Reaction Mechanisms in Nanoreactor by Accelerated MD

Walker Hayes
Sponsors: Dr. Shafat Mubin and Dr. Todd Martinez
Valdosta State University


Gracie Whitney
Sponsor: Dr. Gina Caison
Georgia State University

3rd Floor Meeting Room 1—Moderator Dr. Gopeekrishnan Sreenilayam

The Search for a Universal Influenza Vaccine: Broadening Influenza and Immunization using Next-Generation COBRAs and Nanoparticle Technology

Abigail Roegner
Sponsor: Dr. Jarrod Mousa
University of Georgia

The Mental Health of Collegiate Athletes Due to Athletic Demands

Madeleine Mayer
Sponsor: Dr. Christine James
Valdosta State University

Cinematizing Immunity: The Rhetorical Effects of Science Fiction in the Public Communication of Science

Yizhuo Yang
Sponsor: Dr. Gwendolyne Reid
Oxford College/Emory University
3rd Floor Meeting Room 2—Moderator Dr. Lorena Aquirre Salazar

Measuring Hydrophobicity and Host-Guest Complexation of Coumarin 343 and Cucubit[7]uril

Ryan Spencer
Sponsor: Dr. John Hansen
University of West Georgia

Stigmatizing Sexuality: Public Support for Restrictions on Blood Donation for Men Who Have Sex with Men

Brandon Booker
Sponsor: Dr. Anne Price
Valdosta State University

Tattoos and Bumper Stickers: Public Symbols as a Window into Appalachian Identity

David Myers
Sponsor: Dr. Robin O’Day
University of North Georgia

Bryostatin: A Natural Marine Product that Treats Cancer, HIV, MS, and ALZ

Beth Sharpe and Sandra Arellano
Sponsor: Dr. Thomas Manning
Valdosta State University

4:00-4:50
3rd Floor Ballroom A—Moderator Dr. Chia-Ling Ho

The Ecosystem of Collaboration: Artist as Art Piece

Logan Mossor
Sponsor: Jonathan Fisher, MFA
Kennesaw State University

Postcolonial Discourse: A British Perspective

Anna Cooper
Sponsor: Dr. Marty Williams
Valdosta State University
Public Health Districts Readiness for Program  
Evaluation of Nutrition and Physical Activity Programs

Madeline Meiser  
Sponsors: Ms. Ivey Whitworth MS and Dr. Damian Francis Ph.D.  
Georgia College and State University

3rd Floor Meeting Room 1—Moderator Dr. Gopeekrishnan Sreenilayam

Fluidity and Liminality: Piracy in the 19th Century South China Sea

Kenny Jean-Baptiste  
Sponsor: Dr. Ghulam A. Nadri  
Georgia State University

A Quantitative Investigation of the Effectiveness of 3D-Printed Plastic Natural Convective Heatsinks Using Computational Fluid Dynamics

Shyra LaGarde  
Sponsors: Dr. Gregory Michna and Dr. Stephen Gent  
South Dakota State University  
Valdosta State University

Effects of Silver Nanoparticles on Respiration of Baker’s Yeast

Julia Higdon and Thomas Mancil  
Sponsor: Dr. Kurt Winkelmann  
Valdosta State University

Simple Synthesis of Trimetallic Electrocatalysts for CO2 Reduction

Jodeci L. Mitchell  
Sponsor: Dr. Tolulope O. Salami  
Valdosta State University

3rd Floor Meeting Room 2—Moderator Dr. Lorena Aquirre Salazar

A Quantitative Analysis of Blood Lead Levels and Associated Risk Factors in U.S. Children

Alivia Johnson and Yudan Wei  
Sponsor: Dr. Jianmin Zhu  
Fort Valley State University

The Missionary vs. Her Movie

Hannah M. Clark  
Sponsor: Dr. John Dunn  
Valdosta State University
**Battle of the Sexes: Gender Differences in Achievement and Social-Emotional Functioning**

Tammy Byrd  
Sponsor: Dr. Ophélie A. Desmet  
Valdosta State University

**Webinar Schedule**

**9:00-9:50**  
Breakout Room 1-Oral Presentations—Moderator Dr. Samantha Paul

*Establishing a Quantitative Relationship between Carcinogens in Cigarettes and Lung Squamous Cell Carcinoma through Gene Expression Analysis*

Jayasri Mankan  
Sponsor: Dr. Ying Xu  
University of Georgia

*Precision Studies for String Derived Z’s at Hadron Colliders*

Andrew McEntaggart and Alon E. Faraggi  
Sponsor: Dr. Marco Guzzi  
Georgia Institute of Technology/Kennesaw State University

*So Much to Say: Contributing Alternative Discourses on College Mental Health*

Julia Kwak, Cody Nelson, and Gracie Wilson  
Sponsor: Dr. Alicia DeNicola  
Oxford College/Emory University

*Employer Perception of Public Health Graduates and Interns on Workplace Competency*

Jordan Yeater  
Sponsor: Dr. Ernie Kaninjing and Dr. Damian Francis  
Georgia College and State University

**10:00-10:50**  
Breakout room 1-Oral Presentations—Moderator Dr. Samantha Paul

*Examining Fennel Extracts for Potential Anti-Tumorigenic Properties in Metastatic Triple-Negative Breast Cancer Cells In Vitro*

Srisha Jayakumar, Austin Scharf, Ivan Zhu, Brenda Harmon, and LaTonia Taliaferro-Smith  
Sponsor: Dr. Margaret McGehee  
Oxford College/Emory University
Exploring the New Black Renaissance through the Lens
Kikelomo Sanni
Sponsor: Anna Weinstein, MFA
Kennesaw State University

Should Blood Be Thicker Than Water? Examining the Place of Preferential Treatment within the Stoic Cosmopolitan Ideal
Nana Yaa Awere
Sponsor: Dr. Allison Piñeros Glasscock
Georgia State University

Physiological Evaluation of Newly Invasive Jorō Spiders (Trichonephila clavata) in the Southeastern USA Compared to their Naturalized Cousin, Trichonephila clavipes
Benjamin Frick
Sponsor: Dr. Andy Davis
University of Georgia

Breakout Room 2-Poster Presentations—Moderator Dr. Fred Knowles

An Investigation of the Impact of Post-traumatic Growth, Coping, and Resilience on Coherence and Perceived Self-Efficacy in Young Adult Survivors of Sexual Harassment and Trauma
Alicia Zarker and Lauren Ernst-Fortin
Sponsor: Dr. Stephanie E. Jett
Georgia College and State University

Essential Oils as Potential Therapeutics for COVID-19
Matan Chester, Angela Abraham, and Bianca Vasquez
Sponsor: Dr. Nilmi Fernando
Georgia State University

Pain Related Depression of Behavior in Mice following a Frontal Traumatic Brain Injury
Dylan MacLean
Sponsor: Dr. Michael R. Hoane
Augusta University

The Design and Activity of a Novel Antimicrobial Hairpin Peptide
Barrette Jackson II
Sponsor: Dr. Jonathan M. Meyers
Columbus State University
11:00-11:50
Breakout Room 1-Oral Presentations—Moderator Dr. Samantha Paul

“Don’t Say Gay” and Other Political Exploitations in Public Education
Kenneth Watson
Sponsor: Dr. Karen A. Terry
Valdosta State University

The Use of Modern Technology in Museums
Katherine Nichols
Sponsor: Dr. Lavonna Lovern
Valdosta State University

Exercise, Social Media, and Mental Health during the Pandemic
Carson Beasley, Rachel Howell, and Reagan Lippold
Sponsor: Dr. Tsu-Ming Chiang
Georgia College and State University

Breakout Room 2-Poster Presentations—Moderator James Lane

Crohn’s Disease and COVID-19: A Literature Review
Ferris Abu-Ghosh
Sponsor: Dr. Frank Cruz
Georgia State University

Access to Lactation Support Services and the Relationship with Breastfeeding Initiation across Georgia Counties
Sherifa Akinniyi
Sponsor: Dr. Sina Gallo, RD
University of Georgia

Sepsis Care
Tristee Pickle, Alexa Montalbano,
Cole Maxwell and Lauren Mcclure
Sponsor: Dr. Laura Kim Gosa
Georgia Southwestern State University
**12:00-12:50**

Breakout Room 1-Oral Presentations—Moderator Dr. Samantha Paul

*The Overruling of Roe v. Wade: Educational Affects and Consequences*

Emma Strickland  
Sponsor: Dr. Karen A. Terry  
Valdosta State University

*The Relation between Contrast Sensitivity and Macular Pigment*

Cameron Wysocky  
Sponsors: Dr. Randy Hammond and Dr. Lisa Renzi-Hammond  
University of Georgia

*Effects of Dynamic Pre-Event Stretching on Hamstring Injury Prevention on Male College Soccer Athletes*

Michael Grainger  
Sponsor: Dr. Jinkyung Park  
Georgia College and State University

*Sea Lettuce is a BLAST: Using Bioinformatics to Find Aquaporin Genes in Ulva mutabilis*

Arbrianna Goolsby  
Sponsor: Dr. Donna L. Gosnell  
Valdosta State University

Breakout Room 2-Poster Presentations—Moderator Tremaine Genias

*Past SKIN Deep: Pressure Injuries*

Anna Cannarella, Jacqueline Dugger, Bailey Christian and Bryce Schmitz  
Sponsor: Dr. Laura Kim Gosa  
Georgia Southwestern State University

*Effects of Nerve Cord Transection on Expression of Voltage Gated Ion Channels in the Abdominal Ganglia of Crayfish (Procambarus clarkii)*

Richard J. Wilson  
Sponsor: Dr. David J. Schulz  
University of Missouri, Columbia

*Getting the Jab: Good Habits and COVID-19 Vaccination*

Amber Oliver  
Sponsor: Dr. Hans E. Schmeisser  
Abraham Baldwin Agricultural College
Simulation Experiments of a Distributed Fault Containment Algorithm Using Randomized Scheduler

David Tan
Sponsor: Dr. Anurag Dasgupta
Valdosta State University

1:00-1:50
Breakout Room 1-Oral Presentations—Moderator Dr. Sarah FitzGerald

The Effects of Pollution on Carotenoid Allocation in the Eggs of Bluegill and Redbreast Sunfish in Columbus, GA

Likhita Aluri
Sponsor: Dr. Michael Newbrey
Columbus State University

Characterization of Combustion of F-24, IPK and S-8 Blends in a Constant Volume Combustion

Aidan Rowell
Sponsor: Dr. Valentin Soloiu
Georgia Southern University

The Political Economy of Insulin

Jay Jones
Sponsor: Dr. Deric Shannon
Oxford College/Emory University

Teen Pregnancy: Social Impacts and Solutions

Raneshia Hudson
Sponsor: Dr. Ellis Logan
Valdosta State University

Breakout Room 2-Poster Presentations—Moderator Tremaine Genias

Fall Prevalence and Evidence-based Measures for Prevention

Hannah Kendall, Joshua Seworkpor, Bryson Langford and Isabelle Grodzki
Sponsor: Dr. Laura Kim Gosa
Georgia Southwestern State University

Essential Oils as Potential Therapeutics for COVID-19

Matan Chester, Bianca Vasquez, and Angela Abraham
Sponsor: Dr. Nilmi Fernando
Georgia State University
Prevention of Hospital Acquired Clostridium Difficile

Sarah Smith, Brianna Boone,
Dane Stirrat and Hannah Harbage
Sponsor: Dr. Laura Kim Gosa, DNP RN, PTA
Georgia Southwestern State University

Investigating the Effects of Microplastic Contamination on Maternal Health and Newborn Neurodevelopment Through Unsupervised Machine Learning

Adrian Bozocca
Sponsor: Dr. Renzi-Hammond
University of Georgia

2:00-2:50
Breakout Room 1-Oral Presentations—Tremaine Genias

Chicana/o Mourning in Viramontes’ “The Moths”

Julia Grace Jones
Sponsor: Dr. Ian Afflerbach
University of North Georgia

Technological Distraction in Italian Personal Relationships

Anna Marie Boughton, Caroline Veal and Regan Mitchell
Sponsor: Dr. Tsu-Ming Chiang
Georgia College and State University

Psychological Effects on Bilingual Children’s Education

Laura James
Sponsor: Dr. Lavonna Lovern
Valdosta State University

Critical Race Theory and House Bill 1084: The Great Misunderstanding of K-12 Implementation

Zach Bryan
Sponsor: Dr. Karen A. Terry
Valdosta State University
3:00-3:50
Breakout Room 1-Oral Presentations—Moderator Dr. Fred Knowles

Hallyu and the Digital Graphic Novel: Understanding Student Perceptions of Korean Culture through Webtoons

Abigail Welch
Sponsor: Dr. Jin Sook Lee
University of California- Santa Barbara

Affection and Independence Promotion from Italian Parents to children

Anna Marie Boughton, Caroline Veal, and Regan Mitchell
Sponsor: Dr. Tsu-Ming Chiang
Georgia College and State University

“Save the Bees” – Effects of Urbanization and Local Habitat Characteristics on Bee Populations in Texas

Sarah Toole
Sponsor: Dr. Andrea Ramirez
Florida State University

Teaching with Technology During the Pandemic

Alisha Gordon
Sponsor: Dr. Danilo Baylen
University of West Georgia