

Georgia Undergraduate Research Conference



PROGRAM

*Learning
Through
Research*

*Symposium on
undergraduate
research*



November 11-12, 2022

URC

Student union Ballroom & Theatre

VALDOSTA STATE UNIVERSITY
UNDERGRADUATE RESEARCH COUNCIL

Cover by: Esmeralda Fecundo



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 Cospier
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*

Chontele 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 Bitu 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 (Cleopectera: 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

Nybriah 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

Peptide Drug Delivery of Didanosine, Emtricitabine, Lamivudine, Letemovir, Nitazoxanide, and Tenofovir Disoproxil for Treatment of COVID-19: A QSAR Study

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 Lombard, 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. Ansul 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 Tragoonsirisak 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

***With Great Intellectual Property Comes Great Responsibility:
The Moral Decay of Spider-Man in the Marvel Cinematic Universe***

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. Gwendolynne 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

Kennya 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 Sologai
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 Bozocea
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