Georgia Undergraduate Research Conference

Program

Symposium on undergraduate research

Learning Through Research

November 10-11, 2023

Student union Ballroom & Theatre

Cover by: Esmeralda Facundo
To find the name of your student, use ctrl F. You can also scroll through the schedule. Saturday is organized in the following order: on-site, webinar, posters.
Friday 10\textsuperscript{th}

4:00-6:00 pm Registration, Reception, and Graduate School Tables
3\textsuperscript{rd} floor Ballrooms

5:00-5:20 Welcome: VSU President Richard A. Carvajal, Ph.D.
Opening: VSU Interim Provost Sheri R. Noviello, Ph.D.

6:00-6:30 pm GURC Officers Meeting—Open to all who would like to attend.

Saturday 11\textsuperscript{th}

On-Site Schedule

7:30-8:30 am Registration and Breakfast 3\textsuperscript{rd} floor Ballrooms

8:00-8:50 am Heritage Room 3\textsuperscript{rd} Floor
Moderator: Dr. Anne Price

\textit{Wage Gap in the United States:}
\textit{What Factors Explain the Pay Gap between Men and Women across the 50 States?}

Abigail Wilcher
Political Science
Valdosta State University
Sponsor: Dr. James LaPlant

\textit{Fostering Creative Thinking in K-8 Enrichment Classes}

Rosieana Johnson
Human Resources
Valdosta State University
Sponsor: Dr. Ophélie A. Desmet

\textit{Effective Classroom Management Strategies for Students with Dyslexia}

Elizabeth Bogani
Education and Elementary Education
Valdosta State University
Sponsor: Forrest R. Parker III
Meeting Room 1&2 3rd Floor
Moderator: Dr. Gayle Ramirez

Effective Classroom Management Strategies for Elementary Age Students

Gabrielle Stanford
Education and Elementary Education
Valdosta State University
Sponsor: Dr. Forrest R. Parker III

Exploring the Efficacy of Differentiated Instruction Strategies in Enhancing Student Learning: An Undergraduate Research Study

Kendall Folsom
Education and Elementary Education
Valdosta State University
Sponsor: Dr. Forrest R. Parker III

The Florida Panhandle: Coastal Property Values

Alexandra E. Redfearn
Economics
Valdosta State University

Meeting Room 3 2nd Floor
Moderator: Darshi Patel

Analysis of Trends in the Projection of Research in Relation to CRISPR

Kristal Depass and Vanessa Brignolle
Biology
Valdosta State University
Sponsor: Dr. Jonghoon Kang

The Copper-Sucrose Complex: A Unique Bioactive Excipient

Capri Persaud and Akshil Patel
Chemistry
Valdosta State University
Sponsor: Dr. Thomas Manning
Meeting Room 4 2nd Floor
Moderator: Kelley Parker, MSN RN

Formulation for Novel Approach to Treat Pancreatic Cancer

Carolina Aponte and Mariam Duarte Marcia
Chemistry
Valdosta State University
Sponsor: Dr. Thomas Manning

A Modified L-Shamped Band stop Filter for Industrial, Scientific, and Medical (ISM) Applications

Marissa Norlund and Jordan Hewins
Applied Mathematics and Physics
Valdosta State University
Sponsor: Dr. Shantanu Chakraborty

Simulating Interactions with Lunar Rocks

Rinisha Ramprakash
Physics and Astronomy
University of Georgia
Sponsor: Dr. Phillip C. Stancil

9:00-9:50

Heritage Room 3rd Floor
Moderator: Dr. Anne Price

Creative Writing in the K-12 Curriculum

Millettia J. Jackson
Undergraduate Research
Fort Valley State University
Sponsor: Dr. Asha K. Warren

The Roles of Government Policy and Media Imperialism on Small Film Market Sustainability, with Emphasis on the Caribbean

Amanda Whylie
Entertainment and Media
University of Georgia
Sponsor: Dr. Kate Fortmueller
Institutional Investment Strategies:
Theory of Risk, Decision, and Probability Analysis

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

Meeting Room 1&2 3rd Floor
Moderator: Dr. Gayle Ramirez

Linguistic Transfer and its Application in Learning American Sign Language

Addeline Wright
Communication Sciences and Disorders and
Honors College
Valdosta State University
Sponsor: Dr. Jennifer S. Beal

Exploring Hidden Talent:
Identifying and Supporting “Hard of Hearing” People’s Talent Development

Jenna Herren
Communication Sciences and Disorders
Valdosta State University
Sponsor: Dr. Ophélie A. Desmet

Student Behavior Issues and their Impact on the Learning Environment

Taliyah Weston
Education and Elementary Education
Valdosta State University
Sponsor: Forrest R. Parker III

Room 3 2nd Floor
Moderator: Darshi Patel

Effects Perfluorooctane Sulfonate (PFOS) on Gene Expression of DJR-1.2 in Caenorhabditis elegans

Faith Smith, Marie Delcy, Joshua Smith, Micha’l McAlpine, and
Jabari Martin
Biology
Fort Valley State University
Sponsor: Dr. Celia Dodd
Proliferating and Differentiation of Primary Airway Epithelial Cells in an Air Liquid Interface (ALI) Culture Systems

Jaylen Spellman-Reliford
Biomedical Sciences
University of Georgia
Sponsor: Dr. Thomas M. Drunkosky, M.S., D.V.M

Novel Synthesis and Anti-Viral Applications for a Marine Natural Product

Thomas Wilson and Vanessa Brignolle
Chemistry
Valdosta State University
Sponsor: Dr. Thomas Manning

Room 4 2nd Floor
Moderator: Kelley Parker, MSN RN

An Analysis of the Prevalence of Potentially Zoonotic Diseases in Wild-caught Freshwater Fish in Georgia

Simone Phillips
Veterinary Science and Public Health
Fort Valley State University
Sponsors: Dr. Oreta Samples and Gregory Dykes

From Patterns to Polygons:
A Recontextualization of Historic Foundry Patterns through Digital Technologies

Jared Wilson, Grace Holley, and Camila Peña
School of Art and Design
Kennesaw State University
Sponsor: Page Burch

Hypersonic-Borne HEMP Threat Analysis, Wargaming Scenarios, and the Breakdown of Mutually assured Destruction Doctrine

Micah Holston
Physics and Political Science
Kennesaw State University
Sponsor: Dr. James Boudreau
10:00-10:50

Heritage Room 3rd Floor
Moderator: Dr. Anne Price

Listen to Them Play:
A LENA Communication Analysis of Children with Autism in Makerspace Environments

Allyson Simmons and Maeve Spoor
Speech-Language Pathology
University of West Georgia
Sponsor: Dr. Kay

The use of Metaphors in the Care of Pediatric Sexual Abuse Survivors

Aanya Ravichander
English and Healthcare
Oxford/Emory
Sponsor: Dr. Sarah Higinbotham

Meeting Room 1&2 3rd Floor
Moderator: Darshi Patel

Engaging with the Unspoken

Phylisicia J. Lundy
Art and Design
Valdosta State University
Sponsor: Glenda Swan

Spectators on the Venus Pudica

Maryellen Hagberg
Art and Women’s Studies
Georgia College and State University
Sponsor: Sunita Manian
Meeting Room 3 2nd Floor
Moderator: Dr. Shipra Gupta

Unraveling the Mysteries of Plant Defense Hormones, Methyl Jasmonate Signaling

Morgan Wynn
Biology
Valdosta State University
Sponsor: Dr. Ansul Lokdarshi

Thermoregulatory Nest Building in Eastern Blue Birds (Sialia sialis):
The influence of Temperature on Avian Reproductive Strategies

Haidee Martinez-Perez
Biology and Environmental Sciences
Georgia College
Sponsor: Dr. Katie Stumpf

Identification and Characterization of a New Microbacterium Species from a Contaminated Chlamydomonas reinhardtii TAP Culture Plate

Chukwuemeka Okpala, Ellye Puckett, Kevin Nguyen, and Taylor Berry
Biology
University of West Georgia
Sponsor: Dr. Mautusi Mitra

Meeting Room 4 2nd Floor
Moderator: Dr. Ahanna Roy Choudhury

An Analysis of Host Cell Protein Expression in Response to Variable Ad5 Infections

Elizabeth Seidita, Camille Browning, Zachary Taylor, and Kasey Karen
Biology
Georgia college and State University
Sponsor: Dr. Kasey Karen

Investigating Potential Sperm Size Dimorphism in Bluehead Wrasse (Thalassoma bifasciatum)

Amelia Osborne and Arabella Lewis
Biology
Agnes Scott College
Sponsor: Dr. Lock Rogers
11:00-11:50
Heritage Room 3rd Floor
Moderator: Dr. Anne Price

The use of Metaphors in the Care of Pediatric Sexual Abuse Survivors

Aanya Ravichander
English and Healthcare
Oxford/Emory
Sponsor: Dr. Sarah Higinbotham

A Theodicy of Contradiction:
The Narrative Betrays of Milton’s God

Conner Kelso
English
Oxford/Emory
Sponsor: Dr. Sarah Higinbotham

Is Homosexuality a Choice:
An Examination of Social, Historical, and Biological Factors Contributing to Homosexuality

Damon Negron
Biology and Sociology
Valdosta State University
Sponsor: Dr. A.J. Ramirez

Meeting Room 1&2 3rd Floor
Moderator: Dr. Gayle Ramirez

Accommodation Not Assimilation:
Independent Living and Its Role within the Disability Rights Movement

Samuel Chernoff
American Studies and Disability Studies
Oxford/Emory
Sponsor: Dr. Eric E. Solomon

Sims:
In His Own Backyard

Krystle Freeman
Liberal Studies
Mercer University
Sponsor: Dr. Andrea L. Winkler
Whose Narrative Is it?
The Intrusive Imagination of White Transcribers and Editors in African American Narratives

Andrea Merritt
English
Georgia State University
Sponsor: Dr. Leslie Whitmire

Meeting Room 3 2nd Floor
Moderator: Dr. Shipra Gupta

Effect of Hypoxia on the Structure of HIF1A mRNA 5’ Untranslated Region

Alexandra Furney
Biology
Georgia College and State University
Sponsor: Dr. Arnab Sengupta

Deep Eutectic Solvents:
An Efficient Green Approach to Carotenoid Extraction

David B. Vasquez
Chemistry
Valdosta State University
Sponsors: Dr. Gopeekrishnan Sreenilayam and
Dr. Ligia Alexandrina Focsan

The University of North Georgia Herbarium:
Contribution to Research, Conservation, and Teaching of Southeastern Flora

Alicia Rodriguez
Biology
University of North Georgia
Sponsor: Dr. James T. Diggs

Meeting Room 4 2nd Floor
Moderator Dr. Ahana Roy Choudhury

Post-hatching Development of the Male Reproductive Tract in Eastern Fence Lizards
(Sceloporus undulatus)

Christina Riecke
Biology and Environmental Sciences
Georgia College and State University
Sponsor: Dr. Matthew R. Milnes
The Relationship between Sexual Maturation, Body Size, and Season in Male Eastern Fence Lizards

Sarah Holder
Biological and Environmental Sciences
Georgia College and State University
Sponsor: Dr. Matthew R. Milnes

The Role of Adenovirus Protein E4 11k in P Body Protein Relocalization

Heather Vincent, Sarah West, Danny Robinson, and Ashley Garcia
Biological and Environmental Sciences
Georgia College and State University
Sponsor: Dr. Kasey Karen

12:00-12:50 Ballrooms 3rd Floor

LUNCH
Speaker: Sandra Jones
Prize Drawing

Next year at Oxford/Emory!
https://oxford.emory.edu/academics/gurc.html

1:00-1:50

Heritage Room 3rd Floor
Monitor: Dr. Sarah FitzGerald

The Construction and Functions of Value Arguments in Scientific Literature of the SARS and COVID-10 Pandemics

Delia Savin
English
Oxford/Emory
Sponsor: Dr. Gwendolynne Reid
The Pursuit for Safer Batteries

De’vonte Payton
Chemistry
Fort Valley State University

Marketing Strategies to Increase Sales and Revenue for Small Business in Middle Georgia

Ian Swann
Accounting
Fort Valley State University
Sponsor: Dr. Josephine Dibie

Meeting Room 1&2 3rd Floor
Moderator: Dr. Ubaraj Katawal

The Treatment of “Lunacy” at Central State Hospital: Myths verses Reality

Juliann Mackiewicz
History and Philosophy
Georgia College and State University
Sponsor: Dr. Stephanie E. Jett

Controlling Drug Release Properties of Tetraethyl orthosilicate (TEOS)-based Sol-Gel Nanoparticles

Raven Glover
Chemistry, Physics, and Astronomy
Georgia College and State University
Sponsor: Dr. Catrena H. Lisse

Synthetic Studies to a Novel Pyrimidodiazopino-Based Anti-Folate as Potential Anti-Cancer Drug

Abigail Wester
Chemistry
University of West Georgia
Sponsor: Dr. Partha
Meeting Room 3 2nd Floor
Moderator: Dr. Donna Gosnell

*Establishment of Invitro Cultures of Rhizoma Peanut Plant*

Taylor Arnold  
Biology  
Fort Valley State University  
Sponsor: Dr. Samuels

*What is Love? Jimmy—Don’t Hurt Him No More*

Angela Li  
Neuroscience and Behavioral Biology  
Oxford/Emory  
Sponsor: Dr. Eric E. Solomon

*Palatable Food Seaking Following the Selective Norepinephrine Neurotoxin DSP-4 in Rats after Forced Abstinence*

Larura N. Callan, Josh Belflower, John T. Belflower, Gunhee Lee, Claudine V. Kase, Ayush Patel, and Ali Gheidi  
School of Medicine  
Mercer University  
Sponsor: Dr. Ali Gheidi

Meeting Room 4 2nd Floor
Moderator: Dr. Ahana Roy Choudhury

*Developing Facial Recognition and Conversational Scripts for NAO Robot*

Jarred Johnson  
Mathematics and Computer Science  
Fort Valley State University  
Sponsor: Dr. Masoud Naghedolfeizi

*Theoretical Study of the Interaction of Select Perfluorinated Alkyl Substances (PFAS) with Transcription Factor, Nuclear Factor Kappa β*

Micha’l McApline and Martin Jabari  
Natural and Computational Sciences  
Fort Valley State University  
Sponsor: Dr. Celia A. Dodd and Dr. Tiffani Holmes
A Modified L-Shamped Band stop Filter for Industrial, Scientific, and Medical (ISM) Applications

Marissa Norlund and Jordan Hewins
Applied Mathematics and Physics
Valdosta State University
Sponsor: Dr. Shantanu Chakraborty

Visual /Arts
Rotunda 2nd Floor
Moderator: Dr. Glenda Swan

Enhancing ADA Compliance for Websites and Online Applications:
A Heuristic Evaluation Approach

James Jarrett
Management and Engineering
Mercer University
Sponsor: Dr. Amro Khasawneh

More than Just a Sport

Madison Connolly
Art and Design
Valdosta State University
Sponsor: Lindsay Godin, MA, MFA

Performing Mozart's Fantasia in C minor, K.475

Rebeca Sierra
Music
Valdosta State University
Sponsor: Dr. Joshua K. Pifer

Collaborative Performance:
The Integration of Musical Expression in German Lieder

Aryn Hendon and Rebeca Sierra
Music
Valdosta State University
Sponsor: Dr. Joshua K. Pifer

Unspoken Truths

Phylisicia J. Lundy
Art
Valdosta State University
Sponsor: Prof. Lindsay Godin
Poster Presentations—Posters listed after at the end of the schedule.
Ballrooms 3rd Floor
Moderator: Dr. Zulal Denaux

2:00-2:50

Heritage Room 3rd Floor
Moderator: Dr. Sarah FitzGerald

Dominance of US Dollar Threatened by BRICS Nation’s Proposed Gold-Backed Currency

Jenna Gardner
Economics
University of North Georgia
Sponsor: Dr. Ruohan Wu

The Connection between Chronic Kidney Disease (CKD) and Food Insecurity: Georgia v. Alabama

Taelynn Walton
Sociology, Anthropology, and Criminal Justice
Valdosta State University
Sponsor: Dr. Ellis Logan

Meeting Room 1&2 3rd Floor
Moderator: Dr. Ubaraj Katawal

Full Panel Presentation

“I Do Not Want to be a Repeating Machine” A Collaborative Self-Study of Undergraduate International Teaching Assistants’ (ITAs) Challenges, Negotiations, Learning, and Needs

Wenyue Song, Xinyue Yan, and Weishan Deng
Applied Linguistics
Oxford/Emory
Sponsor: Dr. Zheng Gu
Meeting Room 3 2nd Floor  
Moderator: Dr. Donna Gosnell  

_Evaluating the Movement of Entomopathogenic Nematodes in Wood with and without the Presence of a Pheromone_  

Janyah Robinson, Kyle Slusher, and David Shapiro-Ilan  
Biology  
Fort Valley State University  
Sponsor: Dr. Dwayne L. Daniels  

_Designing an Undergraduate Forensic Chemistry Experiment on the Levels of Amphetamine in Urine using Two Methods_  

Madeline Teigen and Mia Popkin  
Chemistry  
Georgia College and State University  
Sponsor: Dr. Wathsala Medawala  

_Standardized Tobacco Assessment of Retail Settings (STARS) in Urban Georgia_  

Katelyn Hale  
Public Health  
Georgia College and State University  
Sponsor: Dr. Damian K. Francis  

Meeting Room 4 2nd Floor  
Moderator: Dr. Gopeekrishnan Sreenilayam  

_Pheromone in Nematodes that Supports them in the Presence of Ultraviolet Light_  

Taylor Hodges  
Biology  
Fort Valley State University  
Sponsor: Dr. David Shapiro-Ilan  

_Stress-induced Changes in 5’ end Regulatory Structures of the TP53 mRNA_  

Jin Yeong Kim  
Biology  
Georgia College and State University  
Sponsor: Dr. Arnab Sengupta  

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Genome Sequencing of the Invasive Mussel Mytella charruana

J.C. Adams, L.E. Cathey, L.L. Barrett, J.E. Wood, and C. Calestani
Biology
Valdosta State University
Sponsor: Dr. Cristina Calestani

3:00-3:50

Heritage Room 3rd Floor
Moderator: Dr. A.J. Ramirez

It is an Attack on Education:
The Removal of Diversity, Equity, Inclusion and AP Classes in Florida and Georgia

Jose Ruben Gutierrez
Education
Valdosta State University
Sponsor: Dr. Karen A. Terry

A Criminal Justice Internship as Fieldwork:
My Experience with the Jacksonville Sheriff’s Office

Jameshia Dover
Anthropology, Sociology, and Criminal Justice
Valdosta State University
Sponsor: Dr. R.K. Prine

Meeting Room 1&2 3rd Floor
Moderator: Darshi Patel

Parasites Impacts on Largemouth Bass (Micropterus salmoides) Size and Age Structure in a Small Coastal Plain Impoundment

Sterling Brumbaugh
Forest Resources
Abraham Baldwin Agricultural College
Sponsor: Dr. Wally Wood, III

Community Perception on Tobacco use and Secondhand Smoke Exposure in Rural Georgia

Madeline Meiser, Ivey Whitworth, and Damian Francis
Public Health
Georgia College and State University
Sponsor: Dr. Damian K. Francis
Developing a Hybrid Model for Advancing Medical Diagnosis of Respiratory diseases: Integrating Expert Systems and Machine Learning Algorithms

Tykerria Jenkins
Computer Science
Fort Valley State University
Sponsor: Dr. Masoud Naghedolfeizi

Meeting Room 3 2nd Floor
Moderator: Samantha Paul

Evaluation of the Antibacterial Properties of Ethnomedical Plants

Airionna S. Fordham, Karlie M. Icard, and Ashton Z. Abbott,
Chemistry
Valdosta State University
Sponsors: Dr. Gopeekrishnan Sreenilayam,
Dr. Tolulope O. Salami, and Dr. Xiaomei Zheng

Role of FGF2 mRNA 5’ UTR in Cap-independent Translation Initiation

Brittany Benner
Biology
Georgia College and State University
Sponsor: Dr. Arnab Sengupta

Increasing Biocrude Yield of Food Waste HTL via Combined Feedstocks

Madalyn Nesheim, Leila Kelly, and Sara Engels
Environmental Engineering
Mercer University
Sponsor: Dr. Sarah K. Bauer

Meeting Room 4 2nd Floor
Moderator: Dr. Gopeekrishnan Sreenilayam

Myoglobin Non-Native Biocatalysis in Deep Eutectic Solvents

Mason Griffin, Kaylee O’Quinn, and Oluwatoni Temitayo Salami
Chemistry
Valdosta State University
Sponsor: Dr. Gopeekrishnan Sreenilayam
Optimization in Advanced Laser Materials:  
A Control Theoretical Approach

Wesley Kinney, Ryan Bulharowski, and Carlos Gutierrez  
Electrical and Computer Engineering  
Mercer University  
Sponsor: Dr. Makhin Thitsa

4:00-4:50

Heritage Room 3rd Floor  
Moderator: Dr. A.J. Ramirez

Understanding the 2022 Georgia Gubernatorial Elections:  
What Factors Impacted Voter Turnout?

Austin Peterson  
Political Science  
Valdosta State University  
Sponsor: Dr. James LaPlant

Film vs. Reality:  
The Perspective of the Western Film The Undefeated from a Historic Lens

Isabelle Reimer  
History  
Valdosta State University  
Sponsor: Dr. John Dunn

Meeting Room 1&2 3rd Floor  
Moderator: Dr. Ansul Lokdarshi

Photochemical Study of Vitamin D Field in Supramolecular Host Systems

Emily Lanier Baker and Shipra Gupta  
Chemistry  
Valdosta State University  
Sponsor: Dr. Shipra Gupta

Simultaneous Classification of Who’s Doing What in Videos

Philomena Ekezie  
Computer Science  
Mercer  
Sponsor: Dr. Nyle Siddipui
Examining Maternal Childhood Maltreatment Correlates of Maternal-Infant Emotional Connection in a Community Sample of Black Mothers and Infants

Ahana Narayanan, Elizabeth McAfee, Emma Lathan, Catherine Abrams, Wallace Amie, Welch Shimarith, Martha Welch, David O’Banion, and Abigail Powers
Neuroscience and Behavioral Biology
Oxford/Emory
Sponsor: Dr. Abigail Powers Lott

Meeting Room 3 2nd Floor
Moderator: Samantha Paul

Geographic Distribution and Dirofilaria immitis Infection rates in members of the Anopheles crucians s.l. Species Complex in South Georgia

Zoe Barrett and Tod Butenschon
Biology
Valdosta State University
Sponsor: Dr. Eric W. Chambers

Effect of Silver on A. tumefaciens

Layla Watkins
Animal Science
Fort Valley State University
Sponsor: Dr. Robin Bright

Meeting Room 4 2nd Floor
Moderator: Dr. Gopeekrishnan Sreeilayam

The Advance of Autonomous Self-Driving Vehicles

Grant Lopez
Computer Science
Valdosta State University
Sponsor: Dr. Chunlei Liu

Cloning of an Aquaporin Gene into Yeast

Nathaniel Dionne
Chemistry and Geosciences
Valdosta State University
Sponsor: Dr. Donna L. Gosnell
Sky-high Spartina:  
Atypical Growth due to the Noyes Cut within the Satilla River Estuary

Sarah Conner  
Biological Sciences  
Augusta Georgia: Dr. Stacy Bennett

Webinar

All Presenters will arrive 15-20 minutes early to test equipment in the room. They will be placed into the proper rooms. Guests will be directed to the correct room.

https://us.bbcollab.com/guest/633dc6eb78074b3a99efbceeb52b6b31f

9:00-9:30

Room 1  
Moderator: B. Cordell Moats, MA

Simulating Interactions with Lunar Rocks

Rinisha Ramprakash  
Physics and Astronomy  
University of Georgia  
Sponsor: Dr. Phillip C. Stancil

Kinked-Tailed Mice:  
Quantifying Severity of Vertebral Tail Deformities in a Transgenic Mouse Line

Katelyn B. King and Victor A. Ruthig  
Sexual Medicine Lab and Urology  
Cornell Medicine  
Sponsor: Dr. Victor A. Ruthig

Measuring Perceptions of Creativity through Collaborative Experience

Logan Mossor  
Visual Art  
Kennesaw State University  
Sponsor: Dr. Jonathan Fisher
Room 2
Moderator: Laura Northup

Full Panel

*An Affordable Planar Laser-Induced Fluorescence System for the Hydraulic Mixing Performance in Scaled Serpentine Chambers*

Wren Kalin, Christalle Bristol, Shahanaz Abdul, and Sumia Alam
Civil and Environmental Engineering
Georgia State University
Sponsor: Andrew Kim

10:00-10:50

Room 1
Moderator: B. Cordell Moats, MA

*From Ambassadors to Outcasts: How the Sephardim Changed Spain Before and Since Their Exile*

Lauren Mariah
Modern and Classical Languages
Valdosta State University
Sponsor: Dr. Grażyna Walczak

*The Impact of COVID-19 on Young Children’s Social and Emotional Behaviors*

Natalie Clark, Josie Stover, and Kate Domaleski
Georgia College and State University
Sponsor: Dr. Tsu-Ming Chiang

*(In)Evitable? Perspectives on Marriage chez the 18th Century French Heroine*

Lauren Mariah
Modern and Classical Languages
Valdosta State University
Sponsor: Dr. Kelly Frances Davidson
Room 2
Moderator: Laura Northup

*A County-by-County Analysis of Prison Admissions Rates in Georgia*

Niels Armbruster  
Economics and Statistics  
Oxford/Emory  
Sponsor: Dr. Sarah Higinbotham

*Queer Worldbuilding and Role Playing as a Form of Security*

Alex Campo  
Women, Gender, and Sexuality Studies  
Oxford/Emory  
Sponsor: Dr. Eric E. Solomon

*Isolation of Secondary Metabolites in E. Serotonin*

Elise Snow  
Chemistry  
Columbus State University  
Sponsor: Dr. Daniel W. Holley

11:00-11:50

Room 1
Moderator: Laura Northup

*Family Values and Mental Health Implications for Immigrant Young Adults*

Sophy Sanchez and Katherine Van  
Psychology  
Georgia College and State University  
Sponsor: Dr. Tsu-Ming Chiang

*Determining the Divisive Nature of the Second Amendment in Education: House Bill 1084*

Shane Holyoak  
Education  
Valdosta State University  
Sponsor: Dr. Karen A. Terry
How the Migrant/Refugee Crisis of 2015 Fueled the Rise of Anti-Musim Right-Wing Politics in Europe

Naeman Akhter Mahmood and Dana Marie Smiley
Arabic and Middle Eastern Studies
Oxford/Emory
Sponsor: Dr. Anouar El Younssi

Mathematical Model of West Nile Virus Dynamics:
Study of Passive Immunity and Vertical Transmission

Jiwon Choi
Biology
Savannah State University
Sponsor: Dr. Abhinandan Chowdhury

Room 2
Moderator: B. Cordell Moats, MA

Posters

Calculating Inflation in Athens-Clarke and Oconee Counties, Georgia

Ivelina Teneva
Business
University of North Georgia
Advisors: Dr. Kelly Manley and Dr. Yongseung Han

Analyzing Interactions Between Anti-Austerity Movements and European Governments Following Economic Crisis

Milouse Brice and Eva Capelson
Sociology
Oxford/Emory
Sponsor: Dr. Deric Shannon

Enhancing Secondary Study Spaces:
An Exploratory Study of the Effects of Environment and Information irculation on the Popularity of Study Spaces on College Campuses

Kelli Breed, Casey Brown, and Naudia Carroll
Communication, Film, and Media-Public Relations
University of West Georgia
Sponsor: Prof. Taylor Bryant
Authoritarian Media Cooptation and Its Implications for Cyber-feminist Activism in China

Shawn Chen  
Sociology  
Oxford/Emory  
Sponsor: Dr. Deric Shannon

Psilocybin in the Treatment of Depression:  
A Meta-Analysis

Destiney Dempsey  
Psychology  
University of North Georgia  
Sponsor: Dr. Clayton I. Teem II

Examining the Role of Autophagy Regulator Atg7 on the Tumor Immune Response of Melanoma

Erin Suh  
Biochemistry and Molecular Biology  
The University of Georgia  
Sponsors: Dr. George Souroullas and Dr. Sarah Zimmerman

12:00-12:50

Room 1  
Moderator: Dr. F.E. Knowles, Jr.

Social Media use and Mental Health during the Pandemic

Jenna Purdy, Maria Cook, and Riley Fader  
Psychological Sciences  
Georgia College and State University  
Sponsor: Dr. Tsu-Ming Chiang

So, Who’s Bringing the Potato Salad?  
Digesting the Black American Thanksgiving Table

York Lewis  
History  
Georgia State University  
Sponsor: Dr. Leslie Denita Whitmire
Modeling Mandarin Loanword Adaptation of English Null Onset Personal Names

Rasmit Devkota
Physics
Georgia Institute of Technology
Sponsor: Dr. Hongchen Wu

Transing Reproductive Justice

Jay Jones
Women’s, Gender, and Sexuality Studies
Emory/Oxford
Sponsor: Dr. Alix Olson

1:00-1:50

Room 1
Moderator: Dr. Ubaraj Katawal

House Bill 1084 and Critical Race Theory: An Abstract

Dimitri Parris
History and Secondary Education
Valdosta State University
Sponsor: Dr. Karen A. Terry

Examining the Omission of Slavery’s Origins in Georgia’s Educational Standards: A Critical Analysis of House Bill 1084

Marvin Spingle
Education
Valdosta State University
Sponsor: Dr. Karen A. Terry

How the Politicization of COVID-19 Contributes to Social Determinants of Disability in the United States

Bianca Saini
Political Science, Anthropology, Sociology, and Public Health
Fort Valley State University
Sponsor: Karishma Saini, MS MPH
Effects of Anthropometry and Agility on Player’s Performance in the National Basketball Association (NBA)

Jonas McClelland
Mathematics
Georgia College and State University
Sponsor: Dr. Jebessa B. Mijena

2:00-2:50

Room 1
Moderator: Dr. F.E. Knowles, Jr.

Physics-Informed Machine Learning-Enabled Digital Twin Implementation for Power Electronic Converters

Sabastian Oviedo
Electrical and Computer Engineering
Georgia Southern University
Sponsor: Dr. Masoud Davari, ACUE, SM IEEE

“Proud to be Autistic”: Greta Thunberg’s Queering Rhetorical Genre in Climate Change Advocacy

Amiee Zhao
English
Oxford/Emory
Sponsor: Gwendolynne Reid

Polynomial Codes over Finite Fields: BCH Codes

Monica Lichtenwalner
Mathematics
Georgia College and State University
Sponsor: Dr. Marcela Chiorescu

Synthesis and Characterization of Mellitic Synthesis and Characterization of Mellitic Triimiide Based Covalent Organic Frameworks

Megan Brenner
Chemistry
Columbus State University
Sponsor: Dr. Daniel W. Holley
Posters-On-Site

Acoustic Properties of Connected Speech

Ashtyn Ray and Stephanie Lopez
Communication Sciences and Disorders
Valdosta State University
Sponsor: Dr. Matthew Carter, CCC-SLP

Adverse Childhood Experiences at Gordon State College

Viondra Zizi-Payton, Terrica Zellner, Shelby Peters, Elijah Clemmons, Aeneas Cantey, and Willis DeLee
Human Services
Gordon State University

A First-Person Mediation Experience using Virtual Reality

Abigail McDowell
Industrial Management
Mercer University
Sponsor: Dr. Amro Khasawneh

Age and Politics: Who Supports Reproductive Rights?

Tori-Anne Chambers
Sociology
Valdosta State University
Sponsor: Dr. Anne Price

Aluminum Doped Magnetic Nanoparticles for Nutrient Removal and Recovery from Animal Processing Wastewater

Victor Lim
Aerospace, Transportation, and Advanced Systems Laboratory
Georgia Tech Research Institute
Sponsor: Dr. Jie Xu

A Microwave Assisted Cope Rearrangement Laboratory Experiment

Isabella Darwish
Organic Chemistry
University of North Georgia
Sponsor: Dr. Jeremy P. Olson
An Analysis of Host Cell Protein Expression in Response to Variable Ad5 Infections

Elizabeth Seidita, Camille Browning, Zachary Taylor, and Kasey Karen
Biology
Georgia college and State University
Sponsor: Dr. Kasey Karen

An Evaluation of the Antibacterial Properties of Chromolaena Odorata

Karli Icard and Ashton Abbott
Chemistry
Valdosta State University
Sponsors: Dr. Salami Tolulope,
Dr. Gopeekrishnan Sreenilayam, and Dr. Xiaomei Zheng

A Study of Social Media Usage

Jasmine Freeman and Leslie Hunt
Applied Mathematics and Physics
Valdosta State University
Sponsor: Dr. Denise Taunton Reid

Atomic and Molecular Investigation of Corrosion and Coating Degradation after Accelerated Weathering of 4130 Steel

Rafael Garcia Chirino
Chemistry
Mercer University
Sponsor: Dr. Joseph D. Keene

Authoritarian Media Cooptation and Its Implications for Cyber-feminist Activism in China

Shawn Chen
Sociology
Oxford/Emory
Sponsor: Dr. Deric Shannon

Benzalkonium Chloride Enhances Cell Death Induced by Etoposide in a p53-independent Manner

Amaiya Murphy
Biology
Savannah State University
Sponsor: Dr. Takayuki Nitta
Bioactive Excipients for Increasing the Efficacy In vitro of Tecovirimat

Morgan Wynn
Chemistry
Valdosta State University
Sponsor: Dr. Thomas Manning

Black Music of Excellence:
The Racialization of Rock ‘n’ Roll

Kayla Griffin
Music and Africana Studies
Valdosta State University
Sponsor: Dr. M. Denise Lovett

Brooding Rumination Partially Mediates the Association between Cyber Victimization and Depressive Symptoms

Emma Adams and Alyssa Chapman Klas
Psychology
Georgia Southern University
Sponsor: Dr. Lindsey B. Stone

Bugs on Drugs:
The Effects of Common Anti-Depressant Drugs on the Growth Rate of Sarcophaga bullata larvae

Lindsey Grimes
Science and Math
Abraham Baldwin Agricultural College
Sponsor: Dr. Gina Profetto

Building an Accessible Basketball STEM Program using Virtual Reality (VR)

Samuel Sherman, Emily Jacobson, and Abigail McDowell
Industrial Management
Mercer University
Sponsor: Dr. Amro Khasawneh

Causes of Nest Predation of Endangered Black-Cheeked Ant Tanger Nests in Costa Rica

Madeline Ariail and Sarah Scott
Biology and Ornithology
Georgia College and State University
Sponsor: Dr. Katie Stumpf
Calculating Inflation in Athens-Clarke and Oconee Counties, Georgia

Ivelina Teneva
Business
University of North Georgia
Advisors: Dr. Kelly Manley and Dr. Yongseung Han

Characterization of the TH2/At5g32470 Fusion Protein and its Role in Thiamin Metabolism in Plants

Madison Baty and Marjona Rustamova
Biology
University of North Georgia
Sponsor: Dr. Ghulam Hasnain

College Students’ Definitions of Intelligence and Giftedness: Influence of Growth and Fixed Mindset and Attitudes towards Gifted Programs

Haley Anthony, Tris Day, Aspen Moore, Rachel Martinez, Kendall Bell, Amil-R Preyer, Mina Cruise, Connor Fickle, Sophia Pope, Courtney Calligan, Cam Wilson, Courtney Everett, Kaylee Austin, and Meighan Rueden
Psychology
Kennesaw State University
Sponsor: Dr. Christina Salnaitis

Computational and Crystallization Studies of a Capreomycin Complex for the Treatment of Drug Resistant Tuberculosis

Taelynn A. Walton
Chemistry
Valdosta State University
Sponsor: Dr. Thomas Manning

Computational Modeling a New Herpes Simplex 2 Drug

John Watt
Chemistry
Valdosta State University
Sponsor: Dr. Thomas Manning

Controlling Drug Release Properties of Tetraethyl orthosilicate (TEOS)-based Sol-Gel Nanoparticles

Raven Glover
Chemistry, Physics, and Astronomy
Georgia College and State University
Sponsor: Dr. Catrena H. Lisse
Could Woven Polypropylene Market Bags Successfully be used as a Geotextile Substitute in Construction?

Angel Mancio
Industrial Management
Mercer University
Sponsor: Dr. Todd Davis, PE, SE

Design of Faraday Cages for High Frequency Electromagnetic Shielding

Micah Holston
Physics and Political Sciences
Kennesaw State University
Sponsor: Dr. Kevin L. Stokes

Detection of Antibiotic Resistant Genes in Northeast Georgia Water

Noemi Leal, Michelle Vo, Brian Le
Biology
University of North Georgia
Sponsors: Prof. Margi Flood, Dr. Jeanelle Morgan, and Dr. Swapna Bhat

Determination of Fatty Acid Transport Proteins Catalytic Activity and Substrate Specificity

Sophia McNeill, Rezwana Karim, and Hening Lin
Chemistry and Chemical Biology
Cornell University
Sponsor: Dr. Hening Lin

Detection of Nitroaromatic Compounds using Porphyrin-Doped Silica Sol-Gels

Nicole Snyder
Chemistry, Physics, and Astronomy
Georgia College and State University
Sponsor: Dr. Catrena H. Lisse

Developing a User-Friendly Software to Aid Management of Peer Supplemental Instruction Services at Georgia Gwinnett College

Nero Dunmoye
Information Technology
Georgia Gwinnett College
Sponsor: Dr. Saiam Tangirala
Development of an Attitude Toward Sex Education Scale

Joseph Harrell and Bailee Taylor
Psychological Sciences
Valdosta State University
Sponsor: Dr. Meagan M. Wood Hopkins

Displacement and Disruption:
How Gentrification is a Product of White-Dominated Thinking and Systemic Racism in Atlanta, Georgia

Bailey Higgins
Sociology
University of West Georgia
Sponsor: Dr. Tiffany A. Parsons

Does Habitat condition around Artificial Nest Boxes Influence Nest Success for Southeastern American Kestrels?

Jacob Owens
Natural Resource Management-Wildlife
Abraham Baldwin Agricultural College
Sponsor: Dr. Jason Scott

Do The Number of Hours Worked, Time Management, and Stress Predict GPA?

Jennifer Duque-Sanchez
Rural Studies
Abraham Baldwin Agricultural College
Sponsor: Dr. Janet L. Koposko

eDNA Analysis to Detect Fungal Diseases in Waterways

Kyah Canty and Kennedy Dubose
Biology
University of North Georgia
Sponsor: Dr. Jeanelle Morgan

Effects of an Outdoor Environment on Student Behavior

Willow Gruber
Teacher Education and Elementary Education
Valdosta State University
Sponsor: Dr. Forrest R. Parker III

Elucidating the Effects of Artificial Lighting on African Mammal Behavior

Lillie Hayes
Biology
University of North Georgia
Sponsor: Dr. Jessy Patterson
How Home Culture and Age Impact English Language Learning?
An International ESOL Comparative Case Study

Brooklyn Van Deraa
Modern and Classical Languages
Valdosta State University
Sponsor: Dr. Luis G. Bejarano

Enhancing Secondary Study Spaces:
An Exploratory Study of the Effects of Environment and Information Circulation on the Popularity of Study Spaces on College Campuses

Kelli Breed, Casey Brown, and Naudia Carroll
Communication, Film, and Media-Public Relations
University of West Georgia
Sponsor: Prof. Taylor Bryant

Examining the Role of Autophagy Regulator Atg7 on the Tumor Immune Response of Melanoma

Erin Suh
Biochemistry and Molecular Biology
The University of Georgia
Sponsors: Dr. George Souroullas and Dr. Sarah Zimmerman

Exploring Kepler 62f’s Climate Dynamics through an Energy Balance Model

Ian McLean, Jordan Hewins, and Jasmine Freeman
Applied Mathematics and Physics
Valdosta State University
Sponsor: Dr. Billy Quarles

Exploring Snail Shell Morphology and Evolution in the Diverse Ecosystems of Chile

Maya Stevens
Biology
Valdosta State University
Sponsor: Dr. John Phillips and Dr. Uyeno

Exploring Veteran Identity through Lyric Analysis

Trenholm Fahy, Lilla Gillen, and Lauren Gibson
Psychological Sciences
Georgia College and State University
Sponsor: Dr. Sephanie E. Jett
Exploring Veteran Identity using the Photovoice Technique

Meredith Robertson, Haley Blackwell, and Dawson Robinson
Psychological Science
Georgia College and State University
Sponsor: Dr. Stephanie E. Jett

Flexible Energy Sources using Embedded PVDF Films

Chloe Taylor
Engineering
The University of Alabama
Sponsor: Dr. Mark Ming-Cheng Cheng

From Worms to Wonders:
Exploring Total Protein Isolation in C. elegans

Andrew Jimenez
Science and Mathematics
Abraham Baldwin Agricultural College
Sponsor: Heather M. Cathcart

Geographic Distribution and Dirofilaria immitis Infection rates in members of the Anopheles crucians s.l. Species Complex in South Georgia

Zoe Barrett and Tod Butenschon
Biology
Valdosta State University
Sponsor: Dr. Eric W. Chambers

Gopher Tortoise Activity and Behavioral Patterns at Lake Louise Field Station in Valdosta, Georgia

Shyanne Christner
Biology
Valdosta State University
Sponsor: Dr. J. Mitchell Lockhart

Green Tech Oyster Restoration:
Saving the Ocean One Bivalve at a Time

Thomas Wilson
Chemistry
Valdosta State University
Sponsors: Dr. Thomas Manning and Dr. James Nienow

How Age Impacts Perceptions of Credibility as a Function of Author Race and Gender Identity

Daniel Faulkner
Psychology
Valdosta State University
Sponsor: Dr. Mark A. Whatley
How Organized Sports Help Kids with Behavioral Issues

Savannah Stephenson
Teacher Education and Elementary Education
Valdosta State University
Sponsor: Dr. Forrest R. Parker III

Identification of Gene Regulators of Germline Development in C. elegans

Tara Chandhok
Biology
Oxford/Emory
Sponsor: Dr. Sheldon R. Lawrence II

Identification of the Origin of Pediatric Glioblastomas using Human Embryonic Stem Cells

Autumn Hampton
Biomedical Physiology and Sociology
University of Georgia
Sponsor: Dr. Kosuke Funato

Identifying Need in the Animal Medicine Industry

Danielle Ross
Chemistry
Valdosta State University
Sponsor: Dr. Thomas Manning

Impact of Fire on Germination Rates of Root Hemiparasite, Seymeria cassioides (Orobanchaceae)

John Thomas Prater
Arts and Sciences
Abraham Baldwin Agricultural College
Sponsor: Dr. Benjamin Gahagen

Implementing Tracking Abilities for Sensor Retrieval in USVs using Computer Vision

Morgan McCaskill
Mathematics
Francis Marion University
Sponsor: Dr. K. Daniel Brauss

Indole-3 Acetic Acid induces Arteriolar Vasodilation by Stimulating Nitric Oxide Production from Endothelial Cells

Priyanka Nochur Yagneswaran, Sreelakshmi N. Menon, Farzana Zerin, Emmanuella Ezewudo, and Raquibul Hasan
Pharmaceutical Sciences
Mercer University
Sponsor: Dr. Raquibul Hasan
Indole-3 Acetic Acid induces Arteriolar Vasodilation by Stimulating Nitric Oxide Production from Endothelial Cells

Priyanka Nochur Yagneswaran, Sreelakshmi N. Menon, Farzana Zerin, Emmanuella Ezewudo, and Raquibul Hasan
Pharmaceutical Sciences
Mercer University
Sponsor: Dr. Raquibul Hasan

Investigating the Effect of Seasonal Variation on Cirri Appendages in Dwarf Seahorses

Paige Bland and Dalila Sanchez
Biology
Valdosta State University
Sponsor: Dr. Emily Rose

License Plate Upscaling with Super Resolution Generative Adversarial Network

Yuzheng Mei
Electrical and Computer Engineering
Georgia Southern University
Sponsor: Dr. Rami J. Haddad

Listen to Them Play: A LENA Communication Analysis of Children with Autism in Makerspace Environments

Allyson Simmons and Maeve Spoor
Speech-Language Pathology
University of West Georgia
Sponsor: Dr. Kay Green

Modeling the Orbital Dynamics of Super Earth Kepler-62f

Jordan Hewins, Ian McLean, and Jasmine Freeman
Mathematics and Physics
Valdosta State University
Sponsor: Dr. Billy Quarles

Morphological Assessment of Hawaiian Anolis carolinensis/porcatus Specimens

Mia Price
Biology
Valdosta State University
Sponsor: Dr. John G. Phillips
My Contributions to Ghost Fragment, a Method to Compare Fragmentation

Walker Hayes
Physics
Valdosta State University
Sponsor: Dr. Ryan M. Richard

Myth and Reality:
Literary and Scientific Perspective in the Short Story “El hijo”/“The Son” by the Uruguayan Writer
Horacio Quiroga

Aldo Madrigal Olivarez
Modern and Classical Languages
Valdosta State University
Sponsor: Dr. Ericka Helena Parra

Nematode Navigators:
Unraveling Alzheimer’s Secrets using 3D Printed Mazes

Grayson Peek
Biology
Abraham Baldwin Agricultural College
Sponsor: Dr. Heather M. Catheart

Novel Medications for the Chikungunya Virus

Camden L. Reynolds-Mosley
Chemistry
Valdosta State University
Sponsor: Dr. Thomas Manning

Novel Synthesis and Anti-Viral Applications for a Marine Natural Product

Thomas Wilson and Vanessa Brignolle
Chemistry
Valdosta State University
Sponsor: Dr. Thomas Manning

Object Recognitions with Flex Sensor Glove using Classification Machine Learning Models

Elijah Philippe Noisin
Machine Learning, Data Science, and Computer Science
Georgia Gwinnett College
Sponsor: Dr. Sairam Tangirala
Palatable Food Seaking Following the Selective Norepinephrine Neurotoxin DSP-4 in Rats after Forced Abstinence

Larura N. Callan, Josh Belflower, John T. Belflower, Gunhee Lee, Claudine V. Kase, Ayush Patel, and Ali Gheidi
School of Medicine
Mercer University
Sponsor: Dr. Ali Gheidi

Data Analytics Study on Peer Supplemental Instruction at Georgia Gwinnett College for the Academic Year of 2021-2022

Roger Pacheco
Management Information Systems
Georgia Gwinnett College
Sponsor: Dr. Sairam Tangirala

“People Don’t Get Me”:
The Creation of a Scale to Measure being Misunderstood

Katherine D. Carpenter
Psychological Sciences
Valdosta State University
Sponsors: Dr. Mark A. Whatley and Dr. David Monetti

Police Killings:
Why Here, Why Me?

Alana Murray
Criminal Justice
Mercer University
Sponsor: Dr. David A. Davis

Pollination of Seymeria pectinata

Lindsey Grimes
Science and Math
Abraham Baldwin Agricultural College
Sponsor: Dr. Ben Gahagen

Predicting Future Conflict using Targeted Maximum Likelihood Estimation and Political Stability

Josephine Hughes
Economics
Mercer University
Sponsor: Dr. Andre Waschka
Prenatal Cannabinoid Exposure leads to Memory Deficits through Alterations in Glutamate Receptor Expression

Katie Moerschel and Allisa George
Molecular and Cellular Biology
Kennesaw State University
Sponsor: Dr. Vishnu Suppiramaniam

Psilocybin in the Treatment of Depression: A Meta-Analysis

Destiney Dempsey
Psychology
University of North Georgia
Sponsor: Dr. Clayton I. Teem II

Qualitative Detection of Illicit Drug Use in Hair Samples via GC/MS

Carson Griffeth
Chemistry, Physics, and Astronomy
Georgia College and State University
Sponsor: Dr. Catrena H. Lisse

Qualitative Determination of Heavy Metals through the use of Tetra Hydroxyphenyl Porphyrin-Doped Silica Sol-Gels

Morgan Collins
Chemistry, Physics, and Astronomy
Georgia College and State University
Sponsor: Dr. Catrena H. Lisse

Rapid Parasitic Plant Evolution: Parasitic Evolution of RPL_16 and Photosynthetic Dependencies

Anna Kelly Lawless
Cellular and Biomedical Biology
Berry College
Sponsor: Dr. Caitlin E. Conn

Relationships between Concentration Level and Breakfast Habits

Abby Kennedy
Rural Studies
Abraham Baldwin Agricultural College
Sponsor: Dr. Janet L. Koposko
Seasonal Population and Ongoing Size Analysis of Dwarf Seahorses (*Hippocampus zosterae*)

Diah Brown  
**Biology**  
Valdosta State University  
Sponsor: Dr. Emily Rose

Sensorized Tissue Phantom for Magnetic Resonance Elastography  
*Benchtop Experimentation*

Charles Hong and Tarun Vinodkumar  
**Mechanical Engineering**  
Georgia Institute of Technology  
Sponsor: Dr. Jun Ueda

Signal Processing Technique for Audio Improvement

Uchechuwku Onwukeme  
**Engineering**  
Valdosta State University  
Sponsor: Dr. Dr. Oingsong Cui

**SNRs:**  
*The Stellar Graveyard*

Samuel Kimball and Kayleen Linge  
**Earth and Space Science**  
Columbus State University  
Sponsor: Dr. Rosa Williams

Study of Producer Preference for Small Ruminant in Southeastern and Other Regions: Sheep vs. Goat

Keyanne Johns  
**Animal Science**  
Fort Valley State University  
Sponsor: Dr. Tiffani Holmes

Surface Imaging and Analysis of Electrocatalysts for Co2 Reduction

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

Synthesis and Characterization of Furan-Based Semi-Rigid Diol Monomer

Riley Rowland  
**Chemistry and Biochemistry**  
University of North Georgia  
Sponsor: Dr. Rahul Shahni
Synthesis of a Sensor for Methamphetamine using a Novel Naphthalimide Based Florescent Dye Entrapped in Silica Nanoparticles

Richard Jenkins
Chemistry
Georgia College and State University
Sponsor: Dr. Caterna Higginbotham Lisse

Synthesis of Iron (III) Oxide Nanoparticles in Aqueous Solution

Jason Phillips
Chemistry and Geosciences
Valdosta State University
Sponsor: Dr. Linda de la Garza

Teacher Candidates Working to Create Inclusive Classrooms that Engage Learners with Disabilities

Maeve Spoor and Allyson Simmons
Communication Sciences and Disorders
University of West Georgia
Sponsor: Dr. Katy Green

The Design and Identification of Fructosamine-3-Kinase Specific Nanobodies

Jason Lu
Biochemistry and Molecular Biology
University of Georgia
Sponsor: Dr. Natarajan Kannan

The Effect of Brown v. Board of Education Locally at Valdosta State College and Lowndes High School

Isabelle Reimer
History
Valdosta State University
Sponsor: Deborah Davis

The Effect of Exercise Mode on Time Perception during Exercise

Kade Johnson
Kinesiology
Augusta University
Sponsor: Dr. Andrew Moore

The Effects of Category 4 Hurricane Ian on the Gulf Pipefish, Syngnathus scovelli

Aldo Madrigal Olivarez, Kenneth Armstrong, and Megan Sims
Biology
Valdosta State University
Sponsor: Dr. Emily Rose

42
The Effects of Having Health Insurance and the Course of Action Taken by College Students when an Injury Occurs

Jaclyn Talbert and Collin Tomeny
Honors College
Valdosta State University
Sponsor: Dr. Michael Savoie

The Effects of Migratory Status on Avian Species Preservation

Catherine M. Cook, Madison M. Miller, Gabriel J. Rodriguez, and Hasten J. Veal
Biology
University of North Georgia
Sponsor: Dr. Dawn E.W. Drumtra

“The Fearful Count was coming to London”: How Study Abroad Redefines the Scholarship of Literature

Leigh Ann Overlaur
English
Valdosta State University
Sponsor: Ms. Susan LaPlant

The Function of KAI2 Genes in the Parasitic Plant Triphysaria versicolor

Amanda Merrilles
Biology
Berry College
Sponsor: Dr. Caitlin E. Conn

The Impact of Adaptive versus Maladaptive Strategies for Coping with COVID-19 Related Stress on Mental Well-Being in College Students

Paige Russo, Emma Whitener, and Shay Silvia
Psychological Sciences
Georgia College and State University
Sponsor: Dr. Stephanie E. Jett

The Impact of Loneliness, Parental control, Friendship Conflict, and Covid-19 on Anxiety Symptoms in Children and Adolescents during the Pandemic

Savannah French and Reemah Hazama
Psychology
Mercer University
Sponsor: Dr. Amber Ingram
The Impact of Metaphors on Perception

Aditi Mahendran
Psychology and Sociology
Oxford/Emory
Sponsor: Dr. Sarah Higinbotham

The Importance of Oral Reading in Relation to the Elementary Classroom and Students Behaviors

Katie Flythe
Education and Elementary Education
Valdosta State University
Sponsor: Dr. Forrest R. Parker III

The Role of Adenovirus Protein E4 11k in P Body Protein Relocalization

Heather Vincent, Sarah West, Danny Robinson, and Ashley Garcia
Biology
Georgia College and State University
Sponsor: Dr. Kasey A. Karen

The Synthesis of Analogues of p-Cresylphenyl Acetate Under Solvent Free Conditions

Skylar Reid
Chemistry and Organic Chemistry
Georgia College and State University
Sponsor: Dr. Ronald Okoth

The Synthesis of Mesalamine and Curcumin Capped Metal Nanoparticles for the Treatment of Inflammatory Bowel Disease (IBD)

Isabella Dattilio and Sarah Trask
Chemistry, Physics, and Astronomy
Georgia College and State University
Sponsor: Dr. Peter Rosado

The Usage of Deep Eutectic Solvents for Aerobic Myoglobin Biocatalysis

Kaylee O'Quinn, Mason Griffin, and Oluwatoni Temitayo Salami
Chemistry
Valdosta State University
Sponsor: Goppkrishnan Sreenilaym
The Use of Quantitative Structure:
Activity Relationships to Increase the Efficacy of Medication for a T-Lymphotropic Virus-1 Viral Infection

Jacqueline Farmer
Chemistry
Valdosta State University
Sponsor: Dr. Thomas Manning

The Use of Quantitative Structure:
Activity Relationships to Increase the Efficiency of Medication for Dengue Virus

Isabella Najar
Chemistry
Valdosta State University
Sponsor: Dr. Thomas Manning

The Use of Quantitative Structure–Activity Relationships to Increase the Efficacy of Medication for an Epstein-Barr Viral Infection

Tyler Knight
Chemistry Department
Valdosta State University
Sponsor: Dr. Thomas Manning

Trait Impulsivity and Alcohol Use:
Resting State Functional Connectivity Analysis

Matthew I. Bazan, Emily Norton, James Mackillop, and Lawrence Sweet
Neuroscience
University of Georgia
Sponsor: Dr. Lawrence H. Sweet

Two-Step Synthesis of a Novel Phthalein Based pH Indicator

Marissa “Rose” Wagely
Chemistry
Georgia College and State University
Sponsor: Dr. Wathsala Medawala

Understanding How Anuran Acoustic Data Indicates the Environmental Conditions of an Area

Jewell Johnson and Alysa Smith
Biology
Valdosta State University
Sponsors: Dr. John Phillips and Dr. Erin Grabarczyk
Unraveling the Mysteries of Plant Defense Hormones, Methyl Jasmonate Signaling

Morgan Wynn
Biology
Valdosta State University
Sponsor: Dr. Ansul Lokdarshi

Use of Trail Cameras on Sub-Adult Gopher Tortoise Burrows to Monitor Activity

Maeghan McIe
Biology
Valdosta State University
Sponsor: Dr. J. Mitchell Lockhart

Using Hair Cortisol Levels to Understand the Effect of the COVID-19 Pandemic on Stress in Healthworkers

Madison Williams
Psychological Sciences
Valdosta State University
Sponsor: Dr. Kristin Kirchner

Using Multi-Step Synthesis for the Production of Hydrogels with Adhesive Properties

Cole Smith
Chemistry, Physics, and Astronomy
Georgia College and State University
Sponsor: Dr. Catrena Higginbotham Lisse

Utilizing Virtual Reality (VR) to Provide Accessible and Immersive Rock-Climbing Experience

Emily Jacobson, Abigail McDowell and Samuel Sherman
Industrial Engineering
Mercer University
Sponsor: Dr. Amro Khasawneh

Voltametric Response of Antiarrhythmic Drugs

Denetria Thomas
Chemistry
Valdosta State University
Sponsor: Dr. Linda de la Garza
Who Loves Which Cat?
Processing of Mandarin wh-in-situ in RPVP

Jill McLendon
Linguistics
University of Georgia
Sponsor: Dr. Dustín A. Chacón

Yellow Fever Virus

Kalen C. Allen
Chemistry
Valdosta State University
Sponsor: Thomas Manning