Georgia Undergraduate Research ____Conference____



PROGRAM

Learning Through Research

Symposium on undergraduate research







Georgia Undergraduate Research Conference November 10-11, 2023

All Events Will Take Place in the Student Union



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 10th

4:00-6:00 pm Registration, Reception, and Graduate School Tables 3rd 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 11th On-Site Schedule

7:30-8:30 am Registration and Breakfast 3rd floor Ballrooms

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

> Wage Gap in the United States: 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

Fostering Creative Thinking in K-8 Enrichment Classes

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

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: Costal 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 Contratiction: The Narrative Betrails 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 Abstinance

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

> Wenye 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 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

Philomina 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 withing the Satilla River Estuary*

> Sarah Conner Biological Sciences Augusta Georgia: Dr. Stacy Bennetts

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/8ff0aafe0da04f14b908d5f64b4c774a Dial in information: +1-571-392-7650 PIN: 382 157 6598

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. Serotinum

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

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

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