Georgia Undergraduate Research Conference
October 23-24, 2020

Virtual Conference hosted by: University of West Georgia
2020 Georgia Undergraduate Research Collective Officers:
President, Kate Theobald, University of West Georgia
Immediate Past-President, Anastasia Lin, University of North Georgia
President-Elect, Lavonna Lovern, Valdosta State University
Secretary, Kymberly Harris, Georgia Southern University

Special Thanks to:
GURC 2020 Abstract Reviewers
UWG Office of Undergraduate Research
UWG Honors College
UWG Undergraduate Research Committee
UWG SRAP Committee
UWG Career Services
UWG Online

GURC President’s Welcome:

Welcome to GURC 2020! While I wish that we were welcoming you in person to Carrollton, Georgia, and the beautiful University of West Georgia campus, I am so excited that you are joining us virtually for this year’s Georgia Undergraduate Research Conference. Thank you for joining us from your homes, offices, or wherever you are today. Presenters, your acceptance to GURC is a testament to your hard work and dedication to your research, especially during a time when virtual learning and quarantine have added many challenges to the research process.

We have decided not to hold a large welcome session or keynote this year so that you can focus on the student presentations and interacting virtually with researchers from across the state of Georgia and beyond. On Friday, we have many panels of oral presentations in all disciplines for you to choose from. We hope that you will choose a panel to attend during each of the 6 session times. The poster session is open on our YouTube channel throughout the conference, and presenters will be answering questions on their videos on Saturday during the poster session time.

Participating in undergraduate research is an incredibly valuable experience that prepares students for the work they will do in graduate school and their careers. Thank you for choosing GURC as one of the ways you are engaging with undergraduate research. We hope you enjoy this year’s virtual conference.

-Kate Theobald
President, GURC
Office of Undergraduate Research
University of West Georgia

(Watch the welcome here.)
Graduate and Professional School Fair  
Thursday, October 29, 2020  1:00 - 3:30PM

GURC presenters are invited to register for the virtual Graduate and Professional School Fair hosted by UWG Career Services. This is a great opportunity for you to meet representatives from graduate and professional schools across the country.  
Register by Monday, October 26, 2020:  
https://forms.gle/L9TtLcCu5eJQAJU86

Need help? 
If you run into issues on the day of the conference, you can first try to Troubleshoot any issues on your own.  
If that doesn't work, contact UWG Online at 678-839-6248. Please be aware that the UWG Online support team is small. If they are all helping other presenters, you can also use the BB Collaborate Ultra support # 1(877) 382-2293.  

We recommend that you review Required Browsers (minimum tech requirements) Please note that UWG Online recommends trying Mozilla Firefox or Microsoft Edge for Blackboard Collaborate Ultra, as they have seen some recent issues with Google Chrome working properly.
Schedule at a Glance

Friday, October 23, 2020: Oral/Panel Sessions

- Oral Session A, 8:30 - 9:30AM
- Oral Session B, 9:40 - 10:40AM
- Oral Session C, 10:50 - 11:50AM
- Oral Session D, 12:00 - 1:00PM
- Oral Session E, 1:10 - 2:10PM
- Oral Session F, 2:20 - 3:20PM
- GURC Board Meeting 3:30PM
  (For GURC Board Members and all Institution Representatives)

Saturday, October 24, 2020: Poster Session 10:00AM - 12:00PM

The poster sessions are available throughout the conference. Presenters are expected to respond to questions on their poster videos during the session time.

Links:

- Oral Session Room 1: https://us.bbcollab.com/guest/e3f2cb465fa7433d85b4cf6615746f0c
- Oral Session Room 2: https://us.bbcollab.com/guest/775d6262d89f4b94acf9680edf893fe1
- Oral Session Room 3: https://us.bbcollab.com/guest/1d85f8f4fb54b9797425bf65bf6d71e
- Oral Session Room 4: https://us.bbcollab.com/guest/86145bd94704d6b878a9452fd5c378b
- Oral Session Room 5: https://us.bbcollab.com/guest/6da97dbac92d4c478d3b88b5cba1d78a
- GURC Board Meeting: https://us.bbcollab.com/guest/609c26dd878487d8e9ef9ca8b6dec4
- Science, Math, Health, and Engineering Posters: https://www.youtube.com/playlist?list=PLkURt7EtE9m0o1oZeh4PSFiTXliK6KIRW
- Social Sciences, Education, and Business Posters: https://www.youtube.com/playlist?list=PLkURt7EtE9m1VOlofb5AlQa0IwJ4bw-kW
- Arts and Humanities Posters: https://www.youtube.com/playlist?list=PLkURt7EtE9m0HN8RRWwjEx3qEg2K5zYU4
Oral/Panel Presentations:

Oral Session A: 8:30-9:30AM

Panel 1: An Interdisciplinary Conversation about Native Americans
Room 1 https://us.bbcollab.com/guest/e3f2cb465fa7433d85b4cf6615746f0c
Moderator: Austina Jordan, UWG Graduate Student

8:30  Dann V. Bundy: The Confusing Issue of Land Rights
      Presenter: Bryan Moats
      Faculty Mentor: Dr. Fred Knowles
      Valdosta State University

8:50  Creek Strategies in the War Against the White Man
      Presenter: Michael Coffman
      Faculty Mentor: Dr. Jess Usher
      Abraham Baldwin Agricultural College

9:10  Native American Education: Before and After the Boarding School Paradigm
      Presenter: Kim Fromkin
      Faculty Mentor: Dr. Lavonna Lovern
      Valdosta State University

Panel 2: An Interdisciplinary Conversation about COVID-19
(Continued in Oral Session B)
Room 2 https://us.bbcollab.com/guest/775d6262d89f4b94acf9680edf893fe1
Moderator: Summer Delgado, UWG Graduate Student

8:30  Epidemiology of Coronavirus Disease (COVID-19): An Exploratory Study
      Presenter: Valerie Morse
      Faculty Mentors: Dr. Skanda Vivek and Dr. Sairam Tangirala
      Georgia Gwinnett College

8:50  Predicting COVID-19 in Italy and France
      Presenter: Anirudh Gattu
      Faculty Mentor: Dr. Manoj Thapa
      Georgia Southwestern State University

9:10  How Many People Wear a Face Mask in Milledgeville, Georgia?
      Presenter: Jack Como
      Faculty Mentor: Jebessa Mijena
      Georgia College & State University

Panel 3: A Conversation about Topics in Behavior and Special Education
Room 3 https://us.bbcollab.com/guest/1d85f88b4fb54b9797425bf65bf6d71e
Moderator: Dr. Andrea Smith, Assistant Professor, UWG College of Education

8:30  *Does Behavioral Specific Praise vs General Praise Improve the Classroom and Students Behavior?*
Presenters: *Emma Bland, Addie Meade, and Losia Tomlinson*
Faculty Mentor: Dr. Kymberly Harris
Georgia Southern University

8:50  *There’s a Difference? The Influence of Behavior Specific Praise.*
Presenter: *Emma Bland*
Faculty Mentor: Dr. Kymberly Harris
Georgia Southern University

9:10  *Addressing the Pros and Cons of School Wide Implemented Positive Behavioral Interventions on Students with Severe Disabilities*
Presenter: *Ashley Mercer*
Faculty Mentor: Dr. Kymberly Harris
Georgia Southern University

Panel 4: An Interdisciplinary Conversation about Reality and Meaning
*Room 4* [https://us.bbcollab.com/guest/86145bd947b04d6b878a9452fd5c378b](https://us.bbcollab.com/guest/86145bd947b04d6b878a9452fd5c378b)
Moderator: Larissa McPherson, UWG Undergraduate Student

8:30  *Modernity and Eternity: Baudelaire and Platonic Philosophy*
Presenter: *Emily Tillman*
Faculty Mentor: Dr. Janet Donohoe
University of West Georgia

8:50  *Defy Reality: The Merits of a Virtual Realm*
Presenter: *Joshua Dye*
Faculty Mentor: Dr. Robert Lane
University of West Georgia

9:10  *Space and Meaning in a Labyrinth*
Presenter: *Sarah Rogers*
Faculty Mentor: Dr. Marjorie Snipes
University of West Georgia

Panel 5: An Interdisciplinary Conversation about Technological Innovations
*Room 5* [https://us.bbcollab.com/guest/6da97dbac92d4c478d3b98b5cba1d78a](https://us.bbcollab.com/guest/6da97dbac92d4c478d3b98b5cba1d78a)
Moderator: Kim Holder, Senior Lecturer, UWG Richards College of Business

8:30  *Applying Visual-Based Generative Adversarial Networks to Audio Enhancement*
Presenter: *Justin Hall*
Faculty Mentor: Dr. Rami J. Haddad
Georgia Southern University
8:50  *Loop Quasi-Invariant Peeling*
Presenter: **Assya Sellak**
Faculty Mentor: Dr. Clément Aubert
Augusta University

9:10  *Identifying the differences between 3 dimensional shapes Using a Custom built Smart Glove*
Presenter: **Davis Le**
Faculty Mentors: Dr. Sairam Tangirala and Dr. Tae Lee
Georgia Gwinnett College

**Oral Session B: 9:40-10:40AM**

**Panel 6: An Interdisciplinary Conversation about War, Injustice, and Identity**
*Room 1* [https://us.bbcollab.com/guest/e3f2cb465fa7433d85b4cf6615746f0c](https://us.bbcollab.com/guest/e3f2cb465fa7433d85b4cf6615746f0c)
Moderator: Ella Ann Smith, Retired Teacher

9:40  *The Argentina Dirty Wars and the US Involvement*
Presenter: **Savannah Stone**
Faculty Mentor: Dr. Virginia Teran
Georgia College and State University

10:00  *The Ghost of Palestine: Literary Expression of Palestinian Identity After the Nakba*
Presenter: **Hannelore Haas**
Faculty Mentor: Dr. Anouar El Younssi
Emory University

10:20 (open)

**Panel 2 (continued): An Interdisciplinary Conversation about COVID-19**
*Room 2* [https://us.bbcollab.com/guest/775d6262d89f4b94acf9680edf893fe1](https://us.bbcollab.com/guest/775d6262d89f4b94acf9680edf893fe1)
Moderator: Summer Delgado, UWG Graduate Student

9:40  *A Tale of Two Pandemics: A Comparative Analysis of U.S. Government Responses*
Presenter: **Ashlyn Dewberry**
Faculty Mentor: Dr. Daewoo Lee
Columbus State University

10:00  *Technology Use and Child Development in Pandemic Time*
Presenter: **Anthony Cheang and Carly Holman**
Faculty Mentor: Dr. Tsu-Ming Chiang
Georgia College and State University
10:20  Virtually Here: A New Approach to Designing Live Theatre
     *Best Presentation in Visual Arts Award, GURC 2020
Presenter: Natalie Sorrento
Faculty Mentor: Ruth Brandvik
Valdosta State University

Panel 7: A Conversation about Diversity and Inclusive Teaching
Room 3  https://us.bbcollab.com/guest/1d85f88b4fb54b9797425bf65bf6d71e
Moderator: Dr. Natasha Ramsay-Jordan, Assistant Professor, UWG College of Education

9:40   Student Diversity: How it Contributes to Students Learning
Presenter: Gladys Padilla
Faculty Mentor: Dr. Brent Allison
University of North Georgia

10:00  Becoming Inclusive: A Collection and Analysis of the Perceptions of Newly Qualified
       General Elementary Education Teachers on their Preparedness for Teaching in Inclusive
       Settings
Presenter: Brooke Armesto
Faculty Mentor: Dr. Meca Williams-Johnson
Georgia Southern University

10:20  (open)

Panel 8: A Conversation About Philosophy and Existence
Room 4  https://us.bbcollab.com/guest/86145bd947b04d6b878a9452fd5c378b
Moderator: Beth Sheppard, Faculty, UWG Library

9:40   "Fail Again, Fail Better": Positioning Samuel Beckett within the Existential Conceptual
       Landscape
Presenter: Adream Thompson
Faculty Mentor: Dr. Anita Turlington
University of North Georgia

10:00  A Critique of William James' Account of Mystical Experiences
Presenter: Brant Entrekin
Faculty Mentor: Dr. Rosemary Kellison
University of West Georgia

10:20  A Phenomenological Examination of Religious Knowledge
Presenter: Nathan Garner
Faculty Mentor: Dr. Janet Donohoe
University of West Georgia

Panel 9: An Interdisciplinary Conversation about Improving Community and Engineering
(Continued in Oral Session C)
Room 5  https://us.bbcollab.com/guest/6da97dbac92d4c478d3b98b5cba1d78a
Moderator: Dr. Sharmistha Basu-Dutt, Associate Dean and Professor of Chemistry, UWG College of Arts, Culture, and Scientific Inquiry

9:40  *University of North Georgia’s Local Government Engagement Project*
    Presenter: **Naumi Vate**
    Faculty Mentor: Dr. Sarah Young
    University of North Georgia

10:00  *Smart Valdosta City Project for Improved Traffic Safety*
    Presenters: **Keagan McCartha, Genna O’Berin, and Seth Snipes**
    Faculty Mentor: Dr. Barry Hojjatie
    Valdosta State University

10:20  *Computer Vision Based Smart Parking Lot System*
    Presenter: **Mark Stiller**
    Faculty Mentors: Dr. Sairam Tangirala, Dr. Tae Lee
    Georgia Gwinnett College

**Oral Session C: 10:50-11:50AM**

**Panel 10: An Interdisciplinary Conversation about Colonization and Government Involvement**
Room 1  https://us.bbcollab.com/guest/e3f2cb465fa7433d85b4cf6615746f0c
Moderator: Dr. Laurie Kimbrel, Assistant Professor, UWG College of Education

10:50  *The Political Marginalization of Indigenous Communities: Coloniality, Marginalization, and Resistance in Icici Bollain’s También la Lluvia (2010)*
    Presenter: **Maria Julia Bortolucci**
    Faculty Mentor: Dr. Joshua Martin
    University of North Georgia

11:10  *Uprooted: Fighting for Land and Food Rights in Burkina Faso’s Largest Urban Garden*
    Presenter: **Wittika Chaplet**
    Faculty Mentor: Dr. Anouar El Younssi
    Oxford College of Emory University

11:30  (open)

**Panel 11: An Interdisciplinary Conversation about Medical Treatment and Therapy**
Room 2  https://us.bbcollab.com/guest/775d6262d89f4b94acf9680edf893fe1
Moderator: Stacia Keller, UWG Undergraduate Student
10:50  **Analyzing Oxytocin and Vasopressin as Possible Biomarkers and Treatments for Autism Spectrum Disorder**  
Presenter: **Joyce Liu**  
Faculty Mentor: Dr. Chunlei Liu, Valdosta State University  
Emory University

11:10  **Psycodelics and Therapy: Analyzing, Categorizing, and Comparing the Effects of Natural and Synthetic Psychedelics in Therapeutic Practices**  
Presenter: **Rachel Joseph**  
Faculty Mentor: Dr. Christine Simmonds-Moore  
University of West Georgia

11:30 (open)

**Panel 12: A Conversation about Selected Topics in English and Communication**  
Room 3  [https://us.bbcollab.com/guest/1d85f88b4fb54b9797425bf65bf6d71e](https://us.bbcollab.com/guest/1d85f88b4fb54b9797425bf65bf6d71e)  
Moderator: Rachelle Brown, UWG Graduate Student

10:50  **Saturday Night Lear: “SNL” Casts as Today’s Shakespearian Fools**  
Presenter: **Jack Wolfram**  
Faculty Mentor: Dr. Sarah Higinbotham  
Oxford College of Emory University

11:10  **Nancy Drew at 90: Violence, Competence, and the Young Female Protagonist in Literature for Children**  
Presenter: **Madison Brown**  
Faculty Mentor: Dr. Lee Anna Maynard  
Augusta University

11:30  **Scythe & Halo Cab Co.: A Creative Activity in Podcasting**  
Presenter: **Madeline Burgin**  
Faculty Mentor: Dr. Tim Sadenwasser  
Augusta University

**Panel 9 (continued): An Interdisciplinary Conversation about Improving Community and Engineering**  
Room 5  [https://us.bbcollab.com/guest/6da97dbac92d4c478d3b98b5cba1d78a](https://us.bbcollab.com/guest/6da97dbac92d4c478d3b98b5cba1d78a)  
Moderator: Dr. Sharmistha Basu-Dutt, Associate Dean and Professor of Chemistry, UWG College of Arts, Culture, and Scientific Inquiry

10:50  **Trail Activity Prediction Model for Zion National Park**  
Presenter: **Heather Smith**  
Faculty Mentor: Dr. Vinodh Chellamuthu  
Dixie State University
11:10  *Pneumonia Radiograph Diagnosis Utilizing Deep Convolutional Neural Networks and Generative Adversarial Networks*  
Presenters: **Justin Hall and Ziqi Wang**  
Faculty Mentor: Dr. Rami J. Haddad  
Georgia Southern University

11:30  *Source Localization and Deep Learning to Classify EEG Waves*  
Presenter: **Terence Onyewuenyi**  
Faculty Mentor: Dr. Sumit Chakravarty  
Kennesaw State University

**Oral Session D: 12:00-1:00PM**

**Panel 13: An Interdisciplinary Conversation about Culture and Identity**  
*Room 1*  
[https://us.bbcollab.com/guest/e3f2cb465fa7433d85b4cf6615746f0c](https://us.bbcollab.com/guest/e3f2cb465fa7433d85b4cf6615746f0c)  
Moderator: Megan Tackett, UWG Undergraduate Student

12:00  *Colorism and Raciolinguistics in the Formation of the Latinx Identity*  
Presenter: **Daniela Hernandez**  
Faculty Mentor: Dr. Virginia Terán  
Georgia College and State University

12:20  *Camille in a Kimono: An Interdisciplinary Comparison of Japonism and Orientalism*  
Presenter: **Savannah Todd**  
Faculty Mentor: Dr. Sunita Manian  
Georgia College and State University

12:40  *Islamism: Choosing Between Democracy and Stability in the Middle East*  
Presenter: **Gabriel Harr-Siebenlist**  
Faculty Mentor: Dr. Anouar El Younssi  
Oxford College of Emory University

**Panel 14: A Conversation about Selected Topics in Psychology and Mental Health**  
*Room 2*  
[https://us.bbcollab.com/guest/775d6262d89f4b94ac9680edf893fe1](https://us.bbcollab.com/guest/775d6262d89f4b94ac9680edf893fe1)  
Moderator: Jean Cook, Instruction Librarian, UWG Library

12:00  *College Students and Mental Health Services*  
Presenter: **Naomi Katz**  
Faculty Mentor: Dr. Christopher Allen  
Kennesaw State University

12:20  *Educación en Frente y Inmigración en la Mente: The Effect of Immigration on Mental Health and Academic Experiences of Latinx College Students*  
Presenter: **Madison Rodriguez**  
Faculty Mentor: Dr. Lauren Johnson
12:40  *The Relationship between Unit Support and Post-deployment Social Support in Military Veterans*
Presenter: Sherree Clark-Metcalf
Faculty Mentor: Dr. Stephanie Jett
Georgia College and State University

Panel 15: A Conversation about Psychology and Parents
Room 3  [https://us.bbcollab.com/guest/1d85f88b4fb54b9797425bf65bf6d71e](https://us.bbcollab.com/guest/1d85f88b4fb54b9797425bf65bf6d71e)
Moderator: Katelyn Edwards, UWG Undergraduate Student

12:00  *Parental Gender Beliefs and Socialization in Young Children*
Presenters: Carly Holman, Caroline Miller, and Kayla Ruiz
Faculty Mentor: Dr. Tsu-Ming Chiang
Georgia College and State University

12:20  *Parental Attributions of Young Children’s Positive and Negative Behaviors*
Presenters: Lauren Romfo and Emma Smith
Faculty Mentor: Dr. Tsu-Ming Chiang
Georgia College and State University

12:40  *The Relationship Between Frequency of Misbehavior and Parental Discipline*
Presenters: Alison Beale and Hannah Buggs
Faculty Mentor: Dr. Tsu-Ming Chiang
Georgia College and State University

Panel 16: A Conversation about Math and Sports
Room 4  [https://us.bbcollab.com/guest/86145bd947b04d6b878a9452fd5c378b](https://us.bbcollab.com/guest/86145bd947b04d6b878a9452fd5c378b)
Moderator: Dr. Ryan Bronkema, Director of First-Year Academic Initiatives, UWG University College

12:00 (open)

12:20  *What Determines WAR in Baseball*
Presenter: Sam Eichel
Faculty Mentor: Dr. Jebessa Mijena
Georgia College and State University

12:40  *An Analysis of Soccer Data with Network Theory and Linear Regression*
Presenter: Damen Maughan
Faculty Mentor: Dr. Vinodh Chellamuthu
Dixie State University

Panel 17: A Conversation about Selected Topics in Medicine
Room 5  [https://us.bbcollab.com/guest/6da97dbac92d4c478d3b98b5cba1d78a](https://us.bbcollab.com/guest/6da97dbac92d4c478d3b98b5cba1d78a)
Moderator: Natalie Hobbs, UWG Undergraduate Student

12:00  *Efficacy of MD-RN Communication During Interdisciplinary Team Rounds*
*Best Presentation Award, GURC 2020*
Presenters: Seerat Chawla, Nikoo Dalili, Chidinma Ikonte, Dorothy H. Nguyen, and Sidhant M. Umbrajkar
Faculty Mentor: Dr. Erin P. Dowling
University of California, Los Angeles

12:20  *Detection of Atp6v0d2 and Mcoln1 mRNAs in the Mouse Female Reproductive System Using In Situ Hybridization*
Presenter: Suvitha Viswanathan
Faculty Mentor: Dr. Xiaoqin Ye
University of Georgia

12:40  *Effects of Chemotherapeutic Agent Doxorubicin on the Corpus Luteum*
Presenter: HaeYeun Byun
Faculty Mentor: Dr. Xiaoqin Ye
University of Georgia

**Oral Session E: 1:10-2:10PM**

**Panel 18: An Interdisciplinary Conversation about Gender, Community, and Economy**
*Room 1  [https://us.bbcollab.com/guest/e3f2cb465fa7433d85b4cf661574f08](https://us.bbcollab.com/guest/e3f2cb465fa7433d85b4cf661574f08)*
Moderator: Megan Tackett, UWG Undergraduate Student

1:10  *The Courage of Georgia’s First Black City Councilwoman: Mrs. Carrie J. Mays*
Presenter: Keturah Stewart
Faculty Mentor: Dr. John Hayes
Augusta University

1:30  *Beyond Leaning In: Engendering an Economy of Women’s Belonging*
Presenter: Qianchi Wang
Faculty Mentor: Dr. Alix Olson
Oxford College of Emory University

1:50  *Organizational Ethics: Gender Leadership Styles Effect on Company Performance*
Presenter: Destinee Muldrow
Faculty Mentor: Samantha White
University of West Georgia

**Panel 19: An Interdisciplinary Conversation about Societal Pressures, Influences, and Perceptions**
*Room 2  [https://us.bbcollab.com/guest/775d6262d89f4b94acf9680edf893fe1](https://us.bbcollab.com/guest/775d6262d89f4b94acf9680edf893fe1)*
Moderator: Natalie Hobbs, UWG Undergraduate Student
1:10  *Exploring Body Satisfaction in College Freshman through Body Mapping*
Presenter: **Bianca Bill**
Faculty Mentor: Dr. Duke Biber
University of West Georgia

1:30  *Please Notice Me: The Impact of Parasocial Interactions on Social Relationships*
Presenter: **Kennedi Anderson**
Faculty Mentor: Dr. Jessica Traylor
Gordon State College

1:50  *To Read or Not To Read: Addressing the Perception and Stigma of Visual types of Literature*
Presenter: **Quarious Loper**
Faculty Mentor: Dr. Jessica Traylor
Gordon State College

**Panel 20: An Interdisciplinary Conversation about Conservation**
Room 3  [https://us.bbcollab.com/guest/1d85f88b4fb54b9797425bf65bf6d71e](https://us.bbcollab.com/guest/1d85f88b4fb54b9797425bf65bf6d71e)
Moderator: Katelyn Edwards, UWG Undergraduate Student

1:10  *Vertical Farming, A Modern Revolution in Agriculture*
Presenter: **Kaila Jones**
Faculty Mentor: Dr. David Janssen
Gordon State College

1:30  *Reduce: The Success is in the Breakdown of Costume Shop Waste*
Presenter: **Kathalina Thorpe**
Faculty Mentor: Chalise Ludlow
Valdosta State University

1:50  *Reusable Nanostructured Carbon Seawater*
Presenter: **Matheus Prates**
Faculty Mentor: Dr. Jungkyu (Justin) Park
Kennesaw State University

**Panel 21: A Conversation about Selected Topics in Business and Economics**
Room 4  [https://us.bbcollab.com/guest/86145bd947b04d6b878a9452fd5c378b](https://us.bbcollab.com/guest/86145bd947b04d6b878a9452fd5c378b)
Moderator: Dr. Michael Sinkey, Assistant Professor, UWG Richards College of Business

1:10  *House-Price Predictive Modeling Using Support Vector Regression*
Presenter: **Cesar Vasquez**
Faculty Mentor: Dr. Vinodh Chellamuthu
Dixie State University

1:30  *Does the Firm Superstar Model Explain Labor Share Dynamics? Evidence from...*
Counties in Georgia
Presenter: Shaheen Pirani
Faculty Mentor: Dr. Christopher D. Blake
Oxford College of Emory University

1:50 Cross Border Acquisitions: A Country-Level Analysis
Presenter: Jenny Heller
Faculty Mentor: Dr. Katia De Melo Galdino
Georgia Southern University

Oral Session F: 2:20-3:20PM
Panel 22: An Interdisciplinary Conversation about Confidence and Conversation
Room 2 https://us.bbcollab.com/guest/775d6262d89f4b94ac9680edf893fe1
Moderator: Dr. Chelsea Morris, Assistant Professor, UWG College of Education

2:20 The Division of America: Students and Their Struggle to Converse
Presenters: Sydney Kahle and Antonia Ramirez Ramirez
Faculty Mentor: Dr. Toralf Zschau
University of North Georgia

2:40 Disappearing Discourse
Presenter: Riley Abernathy and Chloe Hoover
Faculty Mentor: Dr. Tony Zschau
University of North Georgia

3:00 The Effects of Overconfidence in Physics Education
Presenter: Lani Chastain
Faculty Mentor: Sarah Formica
University of North Georgia

Panel 23: A Conversation about Selected Topics in Biology and Chemistry
Room 3 https://us.bbcollab.com/guest/1d85f88b4fb54b9797425bf65bf6d71e
Moderator: Jean Cook, Instruction Librarian, UWG Library

2:20 Identification and Characterization of Two Novel Strains of Bacteria that have Potential to be Used for Bioremediation of Environmental Pollutants
Presenter: Taylor Box
Faculty Mentor: Dr. Mautusi Mitra
University of West Georgia

2:40 Cloning and Expression of Functional Domains of PyrD and PyrR as a Bifunctional Enzyme for Potential Use in the Biofortification of Riboflavin in Plants
Presenter: Jose Izaguirre Garcia, Lilia Saber, and Briana Sargent
3:00  Oxidation Potentials of Carotenoids  
Presenter: Khushi Patel  
Faculty Mentor: Dr. Alexandrina Ligia Focsan  
Valdosta State University

Panel 24: A Conversation about Energy in Physics and Engineering  
Room 4 https://us.bbcollab.com/guest/86145bd947b04d6b878a9452fd5c378b  
Moderator: Shaneka Thrash, UWG Career Services

2:20  Developing A Model for Studying Collective Behavior in Active Matter  
Presenter: Khamla Thavone  
Faculty Mentor: Dr. Skanda Vivek and Dr. Sairam Tangirala  
Georgia Gwinnett College

2:40  Phonon Scattering from SWCNT-Graphene Junctions under Strain  
Presenter: Ian Durr  
Faculty Mentor: Dr. Jungkyu (Justin) Park  
Kennesaw State University

3:00  Thermal Conductivity of Graphene Composites  
Presenter: Jihad Kudsy  
Faculty Mentor: Dr. Jungkyu (Justin) Park  
Kennesaw State University

Panel 25: An Interdisciplinary Conversation about Justice and Ethics  
Room 5 https://us.bbcollab.com/guest/6da97dbac92d4c478d3b98b5cba1d78a  
Moderator: Aaliyah Carter, UWG Undergraduate Student

2:20  Autonomy and Risk: A Defense of the Nozick Principles  
*Best Paper Award, GURC 2020  
Presenter: Brant Entrekin  
Faculty Mentor: Dr. Walter Riker  
University of West Georgia

2:40  Playing God in Science Fiction and Genetics  
Presenter: Natalie Hobbs  
Faculty Mentor: Amy Ellison  
University of West Georgia

3:00  (open)
**Poster Presentations:**
Saturday, October 24, 10:00AM - 12:00PM

Posters will be available for viewing throughout the conference. Attendees are invited to leave questions in the comments on the videos, and presenters are expected to respond to questions on their videos during the poster session time.

All posters are available on playlists on GURC’s YouTube channel and are accessible through the links included below.

**Science, Math, Health, and Engineering:**
[https://www.youtube.com/playlist?list=PLkURt7EtE9m0o1oZeh4PSFiTXiK6KIRW](https://www.youtube.com/playlist?list=PLkURt7EtE9m0o1oZeh4PSFiTXiK6KIRW)

*Evaluating Antimicrobial Properties of Curcumin Extract Against Gram-negative and Gram-Positive Bacteria*
Presenter: **Tessie Ritter**  
Faculty Mentor: Dr. Kingsley Dunkley  
Abraham Baldwin Agricultural College

*The Effects of Climate Change on Phenology of Hemiparasite, Seymeria cassioides (Orobanchaceae)*
Presenters: **Lucinda McEachin, Caroline Shaw, and Sharon Spiess**  
Faculty Mentor: Dr. Benjamin Gahagen  
Abraham Baldwin Agricultural College

*Is It Possible to Quantify APL-1 Using an Antibody Targeted to a Human Ortholog?*
Presenter: **Hannah Lindmeier**  
Faculty Mentor: Dr. Heather Cathcart  
Abraham Baldwin Agricultural College

*Novel Characterizations of Potential Therapeutic Plants*
Presenter: **Courtney Hood and Garret Pierzchajlo**  
Faculty Mentor: Dr. Benjamin Gahagen  
Abraham Baldwin Agricultural College

*Removal of Cadmium Ions from Polluted Waste Water*
Presenter: **Caleigh Eberhardt**  
Faculty Mentor: Dr. Balika Khatiwada  
Abraham Baldwin Agricultural College

*Trends in Alzheimer’s Disease Mortality in Georgia (2001-2018)*
Presenter: **Ziaur Rahman**  
Faculty Mentor: Dr. Abul Sheikh  
Abraham Baldwin Agricultural College

*Understanding and Calculating Covid-19 Fatality Rate through Big Data Analysis*
Presenter: Jon Liu and Joyce Liu
Size Estimates of Extinct Eocene Aquatic Snakes from Central Georgia
Presenter: Colin Calvert
Faculty Mentor: Dr. Al Mead
Georgia College and State University

Green Synthesis of Silver Nanoparticles: Synthesizing Silver Nanoparticles with L-Theanine
Presenter: Sarah Stogner
Faculty Mentor: Dr. Peter Rosado-Flores
Georgia College and State University

Morphological Variations with Natural and Artificial Populations of a Common Diatom from South Carolina, US
Presenter: Sydney Brown
Faculty Mentor: Dr. Kalina Manoylov
Georgia College and State University

Using Multi-Step Synthesis for the Production of Hydrogels with Adhesive Properties
Presenter: Sophia Bonser
Faculty Mentor: Dr. Catrena Higginbotham-Lisse
Georgia College and State University

A Study of Near Infrared DNA Damage and Photo-Cytotoxicity by a Brominated 4-Quinolinium Dicarbocyanine Dye (ESS2-2-4)
Presenter: Yewouemoe Lynda Waku Kouomou
Faculty Mentor: Dr. Kathryn B. Grant
Georgia State University

Deep Learning Image Classification for Disaster Relief
Presenter: Maria Gonzalez Bocanegra
Faculty Mentor: Dr. Rami J. Haddad
Georgia Southern University

Easy Way of Understanding Acid-Base Balance in Blood Buffer System Using Henderson-Hasselbalch Equation in an Introductory Biochemistry/Anatomy and Physiology Courses
Presenter: Jonathan Hughes
Faculty Mentor: Dr. Cathy Lee
Gordon State College

Calculation of Convective/Radiative Coefficients Using Thermal Images
Presenters: Omar Figuero, Revathy Vaidya, and Priyanka Velumani
Faculty Mentor: Dr. Sathish Kumar Gurupatham
Kennesaw State University
The Study of Temperature Variation of Organic and Conventional Fruits Using Thermal Imaging
Presenters: Omar Figuero, Revathy Vaidya, and Priyanka Velumani
Faculty Mentor: Dr. Sathish Kumar Gurupatham
Kennesaw State University

Radiological Mask Exposure Experiment
Presenter: Christopher Focht
Faculty Mentor: Dr. Andrew Hummel
Kennesaw State University

Probing the Genetic Diversity of Phages Infecting Arthrobacter globiformis
Presenter: Charlene Mansour
Faculty Mentor: Dr. Denise Monti
The University of Alabama at Birmingham

Effect of Spin-Dependent Processes and Intermolecular Energy Transfer on Photoluminescence in Organic Semiconductor Molecules
Presenter: Yoong Phang
Faculty Mentor: Dr. Tho Nguyen
University of Georgia

Coastal Water Quality Can Be Used as the Missing Link between Upland Processes and Coral Health in Belize
Presenter: Clara Wheelock
Faculty Mentor: Dr. Deepak Mishra
University of Georgia

The Effect of Gram Positive Bacterial Products on Nodose Ganglion Cultures
Presenter: Shreya Pandya
Faculty Mentor: Dr. Claire de La Serre
University of Georgia

Plasma Phospholipid Fatty Acids and Acute Myocardial Infarction: A Mendelian Randomization Study
Presenter: Radhika Chatterjee
Faculty Mentor: Dr. Kaixiong Ye
University of Georgia

Avian Tissue Sampling Alternative: FTA® Card Viability in Detecting Mycoplasma Gallisepticum in Wild Birds from North Georgia
Presenter: Neil Patel
Faculty Mentor: Dr. Linda B. Purvis
University of North Georgia

An Investigation into the Co-habitation of Active Marmota Monax Burrows
Presenter: Nicholas Szabo
Faculty Mentor: Jessica Patterson
University of North Georgia

Probing Nuclear Dynamics in Jet Production at the Electron- Ion Collider  
Presenter: Rebecca Corley  
Faculty Mentor: Dr. Sonny Mantry  
University of North Georgia

The Effect of Natural Products on the Growth of Docetaxel Resistant Triple Negative Breast Cancer Cells  
Presenter: Sonali Dutta  
Faculty Mentor: Dr. Ramneet Kaur  
University of North Georgia

The Effect of Natural Products on the Growth of Docetaxel Resistant Androgen Independent Prostate Cancer Cells Expressing Cancer Stem Cell Markers  
Presenter: Briana Sargent  
Faculty Mentor: Dr. Ramneet Kaur  
University of North Georgia

Enumeration of Coliforms and Antibiotic Resistant Bacteria in Tumbling Creek Construction Zone  
Presenter: Tyler Henderson  
Faculty Mentor: Swapna Bhat  
University of North Georgia

Assessing the Edge Effects on Small Mammal Foraging Using Giving-up Density Stations  
Presenter: Danah Hunt  
Faculty Mentor: Dr. Michael Bender  
University of North Georgia

Snake Fungal Disease (Ophidiomyces ophidiicola) Found in North Georgia in Both Wild and Captive Snakes  
Presenter: Elizabeth Noble  
Faculty Mentor: Jessica Patterson  
University of North Georgia

The Effects of Neonicotinoids on Local Amphibian Populations  
Presenters: Brandon DeBlois and Amanda O'Connell  
Faculty Mentor: Jessica Patterson  
University of North Georgia

Predictive Analysis of Protein Corona Development on Engineered Nanomaterials  
Presenter: Nicholas Ferry  
Faculty Mentor: Dr. Ahmed Kishwar  
University of South Carolina Beaufort
Reactivity and Recyclability of Immobilized Engineered Sperm Whale Myoglobin Containing E. coli Cell Beads in Aqueous and Deep Eutectic Solvents
Presenter: Nathan Hart
Faculty Mentor: Dr. Gopeekrishnan Sreenilayam
Valdosta State University

Association of Lung Capacity in Musicians and Singers
Presenter: Cydney Daquila
Faculty Mentor: Dr. Benjamin Wescoatt
Valdosta State University

Developing Protein-Polymer Nanoconstructs as Reusable Biocatalysts
Presenter: Thomas Falkenhausen
Faculty Mentor: Dr. Gopeekrishnan Sreenilayam
Valdosta State University

The Effect of Social Media Influencers on the Diet Choices of People Aged 18-30
Presenter: Stephanie Petrillo
Faculty Mentor: Dr. Heidi Gonzalez
Valdosta State University

Exploring Novel Reactivity for Engineered Myoglobin Biocatalyst: [2,3] Sigmatropic Rearrangement of Allylic Acetals
Presenter: Wali Haamid
Faculty Mentor: Gopeekrishnan Sreenilayam
Valdosta State University

Dual-Mode Hairpin Resonator using FR-4 Material
Presenter: Rena Viele
Faculty Mentor: Dr. Shantanu Chakraborty
Valdosta State University

Sunless Tanning Additives to Provide Sun Protection
Presenter: Jamie Grady
Faculty Mentor: Dr. Linda de la Garza
Valdosta State University

An Eight-Year Photometric Study of the Seyfert 1 Galaxy NGC 5548
Presenter: Elizabeth Scott
Faculty Mentor: Dr. Kenneth S. Rumstay
Valdosta State University

Cytochrome C-Based Detection of Superoxide
Presenter: Abbey Warren
Faculty Mentor: Dr. Yakov Woldman
Valdosta State University
How to Combat Mass Memorization with Puzzles
Presenters: Kwajalen Hall and Natalie Wyatt
Faculty Mentor: Dr. Thomas J. Manning
Valdosta State University

Social Science, Education, and Business:
https://www.youtube.com/playlist?list=PLkURt7EtE9m1VOlofb5AIQa0lWJ4bw-kW

A Linear Probability Model of Retail Beverage Store Locations
Presenters: Justin Cook and Matthew Peaster
Faculty Mentors: Dr. Abul Sheikh and Dr. Carlos Lopes
Abraham Baldwin Agricultural College

Colorism and Self-Esteem: Minority Women
Presenters: Corinna Balom, Kieira Benton, Cori Griffith, and Savannah Lampkin
Faculty Mentor: Dr. Diane Bryd
Fort Valley State University

Retention at HBCUs
Presenter: Aleeah Muhammad
Faculty Mentor: Dr. Diane Byrd
Fort Valley State University

Techniques for Creating Positive Teacher-Student Relationships within the Classroom
Presenters: Caityln Morgan and Mackenzie Williams
Faculty Mentor: Dr. Kymberly Harris
Georgia Southern University

How Classroom Management Apps Can Support PBIS Framework
Presenters: Madison Morgan, Savannah Rodriguez, and Abigail Walker
Faculty Mentor: Dr. Kymberly Harris
Georgia Southern University

The Experience of Dispositional Optimism among female African-Americans, Latinas/Hispanics, and Caucasians In Generation Z: An Existential Phenomenological Investigation
Presenter: Katie Kennedy
Faculty Mentor: Dr. Daniel Czech
Georgia Southern University

Fading Reinforcements for Positive Behavior
Presenters: Karlye Claxton, Kara Gottberg, and Parker Taylor
Faculty Mentor: Dr. Kymberly Harris
Georgia Southern University

Online Education
Presenters: Patricia Knauff and Madison Wood
Implementation of a Behavior Intervention Plan
Presenter: Mekenzie Royal
Faculty Mentor: Dr. Kymberly Harris
Georgia Southern University

Mind Control: The Power of Commercial and Advertisement Influence
Presenter: Courtney Faro
Faculty Mentor: Dr. Amy Buddie
Kennesaw State University

Exploring the Most Effective Dog Adoption Advertisement
Presenter: Sarah Barker
Faculty Mentor: Dr. Allison Martin
Kennesaw State University

COVID-19 and Stress in Student Service Members and Veterans
Presenter: Michael Schlenk
Faculty Mentor: Dr. Brian Moore
Kennesaw State University

Sleep Disturbances in Military Personnel: Incidence and Diagnoses of Insomnia and Obstructive Sleep Apnea
Presenter: Javier Palacios
Faculty Mentor: Dr. Brian Moore
Kennesaw State University

How Does Online Learning Differ During a Pandemic?
Presenter: Laurel Genova
Faculty Mentor: Dr. Kathryn Kloepper
Mercer University

Human Rights & the Economy: Analyzing the Impacts of Manufacturing FDI on Labor Standards
Presenters: Ayah Abdelwahab and Buket Urgen
Faculty Mentor: Dr. K. Chad Clay
University of Georgia

Virtual Human Rights Education: Best Practices in Teaching and Engaging with Human Rights Online
Presenter: Mennah Abdelwahab
Faculty Mentor: Dr. K. Chad Clay
University of Georgia

Motion Aftereffects Influence Memory Representations
Presenter: Jonathan Kroeger
Impact of Musical Presentation on Memory of Novel Linguistic
Presenter: Alexandra Negru
Faculty Mentor: Dr. Ralph Hale
University of North Georgia

Effect of Coloring and Mindfulness on Test Anxiety Among College Students
Presenters: Marjorie Hernandez and Abigail Kelley
Faculty Mentor: Dr. Stephen Smith
University of North Georgia

Juror Decision Making: Race & Gender Orientation
Presenters: Allyson Porras, Connie Ringger, and Kaden Wlosko
Faculty Mentor: Dr. Connie Ringger
University of North Georgia

Child Suicides: The Correlation Between Technology and Increased Suicides Among Adolescents
Presenter: Aaliyah Carter
Faculty Mentor: Dr. Cassandra Bolar
University of West Georgia

Peach State Poison
Presenter: Erin Nalley
Faculty Mentor: Dr. J. Salvador Peralta
University of West Georgia

The Impact of COVID-19 on Young Children’s Social and Emotional Development: Resources for Educators and Families
Presenter: Gabriel Dickson
Faculty Mentor: Dr. Chelsea T. Morris
University of West Georgia

Educational Marketing - Experiential Service Learning
Presenters: Ty McDowell, Brandon Pham, and Olivia Rosener
Faculty Mentor: Dr. Colin Walker
Valdosta State University

Arts and Humanities:
https://www.youtube.com/playlist?list=PLkURt7EtE9m0HN8RRWyjEx3gEq2K5zYU4

Politeness and Requests in StackExchange and StackOverflow Forums
Presenter: Madelienne Skinner
William Carlos Williams: Physician Poet Scrawls Theory of Medical Humanities Throughout Prescription Pad
*Best Poster Award, GURC 2020
Presenter: Audrey Ruan
Faculty Mentor: Dr. Sarah Higinbotham
Emory University

A Descriptive Study of Special Olympics Programming in the State of Georgia
Presenter: Katherine Brashear
Faculty Mentor: Dr. Jeff Turner
Georgia College and State University

Information Design on a College Campus during a Pandemic
Presenter: Brenna Salverson
Faculty Mentor: Dr. Joanna Schreiber
Georgia Southern University

Babe with a Mobility Aid - Creating Vintage Inspired Fashion Accessible to Individuals with Limited Mobility
Presenter: Mackenzie Miller
Faculty Mentor: Dr. Addie Martindale
Georgia Southern University

The Effects of COVID-19 on Language Use in U.S. News: A Corpus-Based Analysis
Presenters: Sophia Rice and Moyang Xu
Faculty Mentor: Dr. Jack Hardy
Oxford College of Emory University

Nationwide Anti-mosque Activity: How Muslim Communities Protect Their Right to Religious Exercise Under the Religious Land Use and Institutionalized Persons Act (RLUIPA)
Presenter: Stewart Zelnick
Faculty Mentor: Dr. Florian Pohl
Oxford College of Emory University

Using Viewpoints to Influence Scenic Design
Presenter: Kathalina Thorpe
Faculty Mentor: Ruth Brandvik
Valdosta State University

Okefenokee National Wildlife Refuge Wayfinding Mural
Presenter: Logan Lott
Faculty Mentor: Evelyn Davis Walker
Valdosta State University