



April 11, 2024  
Student Center East

# GEORGIA STATE UNIVERSITY



## UNDERGRADUATE RESEARCH CONFERENCE

Thursday, April 11, 2024

Start Time	Session (With Hyperlinks to Presentations)	Location
8:00 a.m.	Check-In (8:00 a.m. - 2:00 p.m.)	Student Center East Lobby
9:00 a.m.	Opening Remarks (9:00 a.m. - 9:15 a.m.)	Student Center Ballroom
9:30 a.m.	Poster Session I (9:30 a.m. - 10:45 a.m.)	Student Center Ballroom
10:00 a.m.	Artistic Displays (10:00 a.m. - 2:00 p.m.) Oral Presentations I (10:00 a.m. - 11:00 a.m.)	Student Center Ballroom Student Center East 2nd Floor Meeting Rooms
10:30 a.m.	Experiential Learning Expo (10:30 a.m. - 2:30 p.m.)	Student Center Ballroom
11:00 a.m.	Film Presentations (11:00 a.m. - 12:30 p.m.) Honors Experience in Business (HEXB) Presentations (11:00 a.m. - 12:30 p.m.)	Speaker's Auditorium Student Center East 2nd Floor: Golden Key Board Room (Room 200)
12:00 p.m.	Oral Presentations II (12:00 p.m. - 1:00 p.m.)	Student Center East 2nd Floor Meeting Rooms
2:00 p.m.	Oral Presentations III (2:00 p.m. - 3:00 p.m.)	Student Center East 2nd Floor Meeting Rooms
2:15 p.m.	Poster Session II (2:15 p.m. - 3:30 p.m.)	Student Center Ballroom
3:40 p.m.	Closing Remarks: Dr. Lisa Armistead Dessert Reception Awards Ceremony	Student Center Ballroom



Every year, I am blown away by the quality of undergraduate research happening across GSU, and our Georgia State Undergraduate Conference (GSURC) is one of my favorite events. For those who are experiencing their first GSURC, I'd like to share a little extra detail.

GSURC is an annual interdisciplinary conference sponsored by the Honors College for undergraduate students across GSU performing research who would like to share their findings. And while we certainly see research projects in areas that you would expect – like the sciences – we embrace research in a broader sense and acknowledge that important research happens across all areas of study.

And – importantly – this year's GSURC is the special capstone event of our first-ever Undergraduate Research Week – a week in which students can learn more about research, how to practice successful research and how effective research skills can further one's career. We have created a special hashtag for the week, and we encourage everyone to share their experiences of Research Week and GSURC by using #UndergraduateResearchWeek.

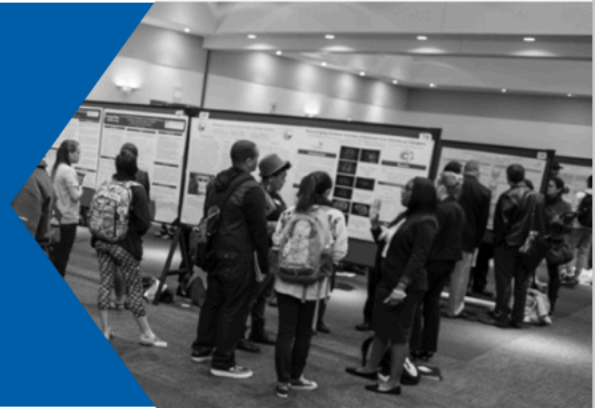
A handwritten signature in black ink that reads "Sarah L. Cook". The signature is fluid and cursive, with a long horizontal line extending from the end of the name.

Sarah L. Cook, PhD  
Dean of the Honors College

# Poster Session I

9:30 a.m. - 10:45 a.m.

Student Center East Ballroom



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Schedule](#)

1

## **Creating a Historical Ceramic Type Collection: A Case Study from the MARTA Archaeological Collection**

Cloe Ellington

Faculty Sponsor: Dr. Jeffrey Glover

2

## **Analysis of Frequency Data for the Expression of Carabelli's Cusp and the Anterior Fovea at Two Late Neolithic Sites in Belgium**

Jennifer Okwudili, Erin Franchini, Frank Williams

Faculty Sponsor: Dr. Frank Williams

3

## **Expert Detection**

Yateeka Goyal & Asya Alyaz

Faculty Sponsor: Dr. Esra Akbas

4

## **Comparing the 2nd Industrial Revolution and Emerging AI**

Andrew Failma

Faculty Sponsor: Dr. Matthew Sparacio

5

## **Analyzing the Impact on Health Behaviors on Anxiety Levels in Undergraduate College Students**

Shirley D. Ortega, Jeong Ha Choi., Kylie Szymanski, A. Hemphill, Maria Misiura, Vonetta Dotson, Dawn Aycock, Rebecca Ellis, Erin Tone, Vince Calhoun, Tricia King

Faculty Sponsor: Dr. Tricia King

6

## **The Search for Biobehavioral Markers of Treatment Relapse in Anxiety Disorders**

Jose Jarquin

Faculty Sponsor: Dr. Michael Schlund

7

## **A Comparative Analysis of the Food Environment on and Around an Urban Multi-Campus University in Southeast U.S.**

Harita Yepuri, Sudip Agrahari, Nida I. Shaikh

Faculty Sponsor: Dr. Nida I. Shaikh

**8 Housing Affordability for Young Adults in Fayette County**  
Taylor Pessin  
Faculty Sponsor: Dr. Joseph Hacker

**9 Exploring the Moderating Role of Childhood Sexual Abuse: The Link Between Sex Drinking Motives and Enhanced Comfort and Intimacy in Romantic Relationships**  
Jasmine Boodram & Rorah Ndungu  
Faculty Sponsor: Dr. Cindy Stappenbeck

**10 Unveiling the Digital Frontline: Exploring Bystander Intervention in Image-Based Sexual Assault Scenarios**  
Atlas Lynch, Caleigh Shepard, Dominic Parrott  
Faculty Sponsor: Dr. Dominic Parrott

**11 Hostile Masculinity and Sexual Intimate Partner Violence Perpetration Among LGBTQ+ Individuals: A Preliminary Test of the Confluence Model**  
Chrystaline Gain  
Faculty Sponsor: Dr. Dominic Parrott

**12 Emotion Regulation Difficulties Moderates the Association Between Sexual Assertiveness and Sexual Satisfaction**  
Rorah Ndungu, Iulia Popescu, Olivia Westemeier, Emily Patton, Anna Peddle, Cynthia Stappenbeck  
Faculty Sponsor: Dr. Cynthia Stappenbeck

**13 Patterns of Alcohol Misuse in Gender and Sexual Minoritized People Assigned Male or Female at Birth**  
Robin Zekser, Harvey Yeager, Dominic Parrott  
Faculty Sponsor: Dr. Dominic Parrott

**14 Community Care as a Response to Secondary Traumatic Stress**  
Nicole Rigoroso  
Faculty Sponsor: Dr. Brian Bride

**15 Direct and Intergenerational Effects of Restraint Trauma on Drosophila Feeding Behavior**  
Momoreoluwa Adetoye-Allen  
Faculty Sponsor: Dr. Sarah Glenn-Clark

- 16** **The Relationship Between Barriers to Psychological Treatment and Depression in a Spanish Speaking Sample**  
Jennifer Perez, Madeline Rech, Page Anderson  
Faculty Sponsor: Dr. Page Anderson
- 17** **An Inverse Relationship Between Self-reported Psychological Distress and Mindfulness in Daily Life**  
Jamshed Dogar, Zaviar Mehdi, Melany Myers  
Faculty Sponsor: Dr. Erin Tone
- 18** **Religiosity and Attitudes Toward Online Psychological Interventions in South Asian College Students**  
Touba Kamal, Madeline Rech, Ria Nagar, Page Anderson  
Faculty Sponsor: Dr. Page Anderson
- 19** **Understanding the Socio-Economic Determinants of Sleep Quality of Young Adults**  
Sedi Ejuoneatse-Clarke  
Faculty Sponsor: Dr. Tricia King
- 20** **Investigating the Relation Between Financial Wellbeing and Attitudes Toward Digital Mental Health Treatment Among College Students**  
Kylar Hibbert, Heather Quirk, Page Anderson  
Faculty Sponsor: Dr. Page Anderson
- 21** **Fight club: Neural Mechanisms of Social Approach-Avoidance Decision-Making**  
Ferris Abu-Ghosh  
Faculty Sponsor: Dr. Michael Schlund
- 22** **Patience is a Virtue: Delay of Gratification by Capuchin Monkeys**  
Dara Jonkoski, Katarina Syed, Liz Haseltine, Kathleen Friedlein, Joseph McKeon, Brooke Jackson  
Faculty Sponsor: Dr. Michael Beran
- 23** **The Relation Between Income, Cognition, and Prevalence of Cardiovascular Disease in a Sample of Black Depressed Middle-aged and Older Adults**  
Gabrielle M. Heard, Kharine R. Jean, PhD & Vonetta Dotson, PhD  
Faculty Sponsor: Dr. Kharine R. Jean

- 24 Investigating “Brain-Age” in Adolescent and Young Adults with Congenital Heart Disease**  
Allison Lipstein, Olivia Haller, Thomas Burns, William Mahle  
Faculty Sponsor: Dr. Tricia King
- 25 Caregiver Measures of Stress in Recollection of Childhood Seizure Events**  
Ana Diaz, David Obanion, Caroline Ray  
Faculty Sponsor: Dr. David O'Banio
- 26 Neuroprotective Effects of Natural Bioactive Compounds**  
Daniel Kuklenyik, Judy Mahgoub, Eshan Shah, Hannah Lail, Huanbiao Mo, Desiree Wanders  
Faculty Sponsor: Dr. Desiree Wanders
- 27 Neuroprotective Effects of Natural Bioactive Compounds in Neuronal Cells**  
Judy Mahgoub, Daniel Kuklenyik, Eshan Shah, Hannah Lail, Desiree Wanders, Huanbiao Mo  
Faculty Sponsor: Dr. Desiree Wanders
- 28 Exploring the Structure of the Calcium Sensing Receptor Calcium-ion Binding Sites to Synthesize Effective Therapeutic Co-agonists**  
Mia McMahon  
Faculty Sponsor: Dr. Jenny Yang
- 29 Enhanced DNA Photocleavage of DNA Using a Carbocyanine Dye Equipped with a Mitochondrial-targeting Triphenyl Phosphonium Group**  
Yasamin Shoushtarian Mofrad  
Faculty Sponsor: Dr. Kathryn Grant
- 30 Purification and Characterization of High-Quality Protein-Based MRI Contrast Agents for Advancing MRI Diagnostics**  
Xiaofang Ke  
Faculty Sponsor: Dr. Jenny Yang
- 31 The 3-Dimensional Mapping of box C/D and box H/ACA snoRNAs and Protein Binding Sites on a Human Ribosome Structure**  
Christel Wallace & Sarah Webster  
Faculty Sponsor: Dr. Homa Ghalei

**32 The Thermodynamics of Halide Anions Exchange at Hematite Oxide Nanoparticles – Aqueous Solution Interface from Microcalorimetry**

Mina Pham

Faculty Sponsor: Dr. Nadine Kabengi

**33 The Role of FGF21 in High-Fat Diet-induced Alterations in Brown Adipose Tissue Metabolism**

Rowan Lawrence, Hannah Lail, Desiree Wanders

Faculty Sponsor: Dr. Desiree Wanders

**34 Strain and Metal-Dependent Transcriptional Control of znuCBA by Zur in Neisseria gonorrhoea**

Reeham Victor

Faculty Sponsor: Dr. Julie Lynn Stoudenmire-Saylor

**35 Comparative Analysis of Connectivity Networks in Psychosis and Control Groups through Microelectrode Array Recordings from HiPSC-Derived Neurons**

Yixuan Li

Faculty Sponsor: Dr. Jingyu Liu

**36 The Effect of Neuromodulation by Myomodulin on Seizure-Like Activity in Leech-heart Interneurons**

Yudith Vazquez-Jacinto, Alyssa Gibson, Carlie Epstein, Lawan Wijayasooriya, Yousif Shams, Gennady Cymbalyuk

Faculty Sponsor: Dr. Gennady Cymbalyuk

**37 Mechanisms Underlying Robust and Flexible Bursting Patterns of Leech Heart Interneurons**

Sebastien Lee

Faculty Sponsor: Dr. Gennady Cymbalyuk

**38 Dissecting the Impact of Ribosome Heterogeneity on Cell-type-specific Dendritic Architecture in Drosophila melanogaster**

Marvin Center, Shatabdi Bhattacharjee, Erin Lottes

Faculty Sponsor: Dr. Daniel Cox

**39 Applying Deep Learning Models to Derive Pose Estimation for Behavioral Analysis**

Elizabeth Miller

Faculty Sponsor: Dr. Sarah Clark



**40 The Effects of Ovariectomy on Myelin Basic Protein (mbp) Expression in a Transgenic Rat Model of Alzheimer's Disease (TgF344-AD)**

Chinedu Odedo

Faculty Sponsor: Dr. Marise Parent

**41 The Effects of Neuromodulation on Multistability of Bursting and Silence**

Anna Gianella, Tommy Tran, Yousif Shams

Faculty Sponsor: Dr. Gennady Cymbalyuk

**42 Effects of Bacterial Metabolites on Brain Development**

Gabby West, Alexandra Castillo-Ruiz, Nancy Forger

Faculty Sponsor: Dr. Nancy Forger

**43 SCATGC (Spatial Cued Assisted Temperature Gradient Chamber)**

Dominique Torres

Faculty Sponsor: Dr. Sarah Clark

**44 Competing Vasopressinergic Projections to Lateral Hypothalamic Hypocretin/Orexin Cells**

Arkar Zaw

Faculty Sponsor: Dr. Aras Petrulis

**45 Effects of Additional Trauma on the Offspring of Traumatized Drosophila**

Annmarie Aris

Faculty Sponsor: Dr. Sarah Glenn Clark

**46 Why do Fish Fall in Love, DLX2a as an Indicator in Monogamy**

Oscar Vasquez, Miranda Pedersen, Amy Lopez

Faculty Sponsor: Dr. Johnathan Sylvester

**47 Can Trauma Haunt Drosophila melanogaster for Generations?**

Alyssa Davis, James Lee, Lucy Ramos, Elizabeth Miller, Shadman Murphy, Sarah Clark

Faculty Sponsor: Dr. Sarah Clark

- 48** **Effects of Artificial Light at Night on Milky Eagle Owl Resting Behavior and Spatial Usage**  
Nikolai Revels  
Faculty Sponsor: Dr. Rachel Santymire
- 49** **GABAergic Neuron- A Possible Antidote for Aggression in Pair-Bonding**  
Precious-Esther Efuneshi  
Faculty Sponsor: Dr. Jonathan Sylvester
- 50** **Determining if Artificial Light at Night Causes Alterations in Behaviors of The Blue Throated Macaw Housed at Zoo Atlanta**  
Daneca Farrin  
Faculty Sponsor: Dr. Rachel Santymire
- 51** **Investigating 4-Ethoxybenzoic Acid Binding Mechanisms in Staphylococcus aureus Biofilm Inhibition via Molecular Docking**  
Zixuan Li & Adonis Aviles Gonzalez  
Faculty Sponsor: Dr. Eric Gilbert
- 52** **Developing a Mouse Model of Gout/Hyperuricemia Using RNA Interference**  
Calvin Kottke  
Faculty Sponsor: Dr. Eric Gaucher
- 53** **Behavioral Responses of the Chilean Flamingo and the Blue-Throated Macaw to Cold Temperatures**  
Haley Sapp  
Faculty Sponsor: Dr. Rachel Santymire
- 54** **Stress: The Matchmaker of Monogamy**  
Ivory Grimes, Autumn Key, Jonathan Wadley, Kayla Richards  
Faculty Sponsor: Dr. Jonathan Sylvester
- 55** **Evaluating the Antibacterial Resistance of Creeks in Georgia using *Escherichia coli* as the Microbial Indicator**  
Karyn Imarhiagbe, Nawal Rashid, Kehinde Adeyeye  
Faculty Sponsor: Dr. Jessica Joyner

**56 Toxicology and Pathohistology: Studying the Decline of the North Atlantic River Herring**

Josseirys Valentin Rivera  
Faculty Sponsor: Dr. Ann Petersen

**57 Human Aid Robot**

Harshini Mahesh  
Faculty Sponsor: Dr. Ashwin Ashok

**58 AI Based Microscopy Image Analysis For Breast Cancer**

Vishal Venu Bangrae  
Faculty Sponsor: Dr. Jun Kong

**59 AI in Disaster Situations**

Merriam Khan & Ivan Loh  
Faculty Sponsor: Dr. Michael C. Weeks

**60 Optimizing and Testing a Smartphone App for Smoking Cessation Among U.S. Adults with Low Socioeconomic Status**

Puja Raol, Jaikanishka Nattamai Subramanian Rajkumar, Liamith Rao Joganpalli  
Faculty Sponsor: Dr. Claire Spears

**61 Location Assessment of Computer Science Education Disparities in Georgia**

Taibou Balde & Tiffany Iriogbe  
Faculty Sponsor: Dr. Anu Bourgeois

**62 Efficient Community Search Indexing**

Daniel Maliro  
Faculty Sponsor: Dr. Esra Akbas

**63 Mobile Phone Use and the Incidence and Mortality of Brain and Central Nervous System Cancer in China**

Zheyi Tao  
Faculty Sponsor: Dr. Yichuan Zhao

- 64 Myositis/Dermatomyositis Survey of Patient Profiles**  
Rashawn Thomas  
Faculty Sponsor: Dr. Cynthia Foote
- 65 The Relationship Between Cultural Theory and the Spread of Viruses**  
Isha Hussain  
Faculty Sponsor: Dr. Jessica Joyner
- 66 Resisting Antibiotic Resistance, curA Gene Exploration**  
Marwah Hamza & Breanna Bryant  
Faculty Sponsor: Dr. Samantha Parks
- 67 Spicy Cells: Capsaicinoid Induced Death**  
Grace Crossen  
Faculty Sponsor: Dr. Paul Ulrich
- 68 The Gelfand-Kirillov Base for Stanley-Reisner Rings Associated to Simplicial Complexes with 3 Vertices**  
Adedamola Akapo  
Faculty Sponsor: Dr. Florian Enescu
- 69 The Finite Generation of the Twisted Construction of an Affine Semigroup**  
Errol "EJ" McLean  
Faculty Sponsor: Dr. Florian Enescu
- 70 Exploring Similarity-Based Graph Compression for Efficient Network Analysis and Embedding**  
Hamdi Akin  
Faculty Sponsor: Dr. Esra Akbas



# Artistic Displays

10:00 a.m. - 2:00 p.m.

Student Center East Ballroom

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1

## **(Dis)Unified Perspective**

Adam Sprague

Faculty Sponsor: Craig Drennen

2

## **A Cornered Silence**

Victoria Revlett

Faculty Sponsor: Dr. Kevin Hsieh

3

## **Care-Taker**

Justin Abraham

Faculty Sponsor: Dr. Ruth Stanford

4

## **Drag is NOT a crime!**

Paulo de Lima

Faculty Sponsor: Dr. Xinran Hu

5

## **Generation Gen: Artistic Processes to Envision Possible Futures through Ethically Trained Artificial Intelligence and Data**

Jeremiah Long

Faculty Sponsor: Dr. Kevin Hsieh

6

## **Mother: Her Effect on Self-Identity**

Samantha Sanchez

Faculty Sponsor: Dr. Craig Drennen

7

## **The New Sheriff Ain't Playin' Opossum**

Brian Shartzter

Faculty Sponsor: Dr. Jess Jones

8

## **The Royal Peacock was the Place to be Until the Downtown Connector Split Auburn Avenue**

Robert Truesdale

Faculty Sponsor: Dr. Anthony Drennen



# Oral Presentations I

10:00 a.m. - 11:00 a.m.

2<sup>nd</sup> Floor Meeting Rooms

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## Room 201

- 1 A Simplified Mathematical Model for Cell Proliferation in a Tissue-Engineering Scaffold**  
Amy Sims, Mona James, Sai Kunnatha, Haniyeh Fattahpour, Paul Joseph, Ashok Joseph  
Faculty Sponsor: Dr. Pejman Sanaei
- 2 A Simplified Model for Erosion and Deposition in Elastic Porous Media**  
Kulsum Saber, Sai Kunnatha, Priyanka Joseph  
Faculty Sponsor: Dr. Pejman Sanaei
- 3 Analysis of Organic Molecules with SPARTAN**  
Aashritha Ravi  
Faculty Sponsor: Dr. Antara Dutta

## Room 203

- 1 Polyhydroxybutyrate Production in Co-Culture System of *E. coli* and *C. reinhardtii***  
Alice Li  
Faculty Sponsor: Dr. Jonathan Slyvester
- 2 Stress Inference in Retinal Pigment Epithelium**  
Isaac Goodspeed & Yixuan Li  
Faculty Sponsor: Dr. Yi Jiang
- 3  $\delta$ -Tocotrienol Improves Insulin Signaling and Decreases Inflammation in Neuroblastoma Cells**  
Eshan Shah, Hannah Lail, Huanbiao Mo, Desiree Wanders  
Faculty Sponsor: Dr. Desiree Wanders

## Room 216

- 1** **A Guide to Rhetoric and How You Can Save the Planet**  
Mackenzie Barber  
Faculty Sponsor: Dr. Lynée Gaillet
- 2** **Biases in the News Selection Process on Political Stories and Crises Events**  
Paul Yeh  
Faculty Sponsor: Dr. Ann Williams
- 3** **Repeat, Remember and Reshape- The Untold History between KKK and Police Violence**  
Varsha Sudharsan, Mia Heyward, Priyanshi Dave  
Faculty Sponsor: Dr. Jennie Burnet
- 4** **The 'Cop City' in a Forest: Unsilencing Black Geographies in the South River Forest**  
India Ríos-Jiménez  
Faculty Sponsor: Dr. Toivo Asheeke

## Room 217

- 1** **A Study of Access and Inclusion at Georgia State University**  
Daniel Stadler  
Faculty Sponsor: Dr. Kathryn Crowther
- 2** **Development of an Inclusive Food Access Map for an Urban Multi-Campus Public University in Southeastern U.S.**  
Sudip Agrahari, Harita Yepuri, Nida I. Shaikh  
Faculty Sponsor: Dr. Nida I. Shaikh
- 3** **From Bottling Plant to Buried Trash: Soft Drinks in the MARTA Archaeological Collection**  
Emmett Cantkier  
Faculty Sponsor: Dr. Jeffrey Glover
- 4** **Single Room Occupancy Housing in Off-Campus Student Living in Atlanta**  
Madelief Tilder  
Faculty Sponsor: Dr. Daniel Pasciuti

## Room 218

- 1** **Cultural Heritage in Bethlehem: Agency and Resistance in the Tourist Industry**  
Jessica Cloud  
Faculty Sponsor: Dr. Emanuela Guano
- 2** **Sculpture Contracts in Renaissance Italy: The Good, the Delayed, and the Rejected**  
Andrea Lizarralde  
Faculty Sponsor: Dr. Grace Harpster
- 3** **There's No Place Like (Someone Else's) Home: The Wizard of Oz as an American Settler Fantasy**  
Gracie Whitney  
Faculty Sponsor: Dr. Gina Caison



# Film Presentations

11:00 a.m. - 12:30 p.m.  
Speaker's Auditorium



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Schedule](#)

1

## **Quarks**

Sam Barker

Faculty Sponsor: Dr. Robbie Land

2

## **A Slight Overreaction**

Alex Hay

Faculty Sponsor: Dr. Robbie Land

3

## **Souls In Software: Interpersonal Relationships in the Digital Age**

Natasha Reilly

Faculty Sponsor: Dr. Robbie Land

# HEXB Presentations

Honors Experience in Business

11:00 a.m. - 12:30 p.m.

Golden Key Board Room

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**Golden Key  
Board Room**

**(Room 200)**

- 1 Digital Currency and its Movement: Exploring the Interplay with Stock Market Dynamics**  
Samari Glickman  
Faculty Sponsor: Dr. Edward Yihuai Wang
- 2 Ethnic Human Geography and Beauty Standards Across the United States**  
Naiya Douglas  
Faculty Sponsor: Dr. Edward Yihuai Wang
- 3 Messi in Miami: Unravelling the Environmental and Socio-Economic Impacts of a Football Icon's Transatlantic Journey**  
Avishek Sengupta  
Faculty Sponsor: Dr. Edward Yihuai Wang
- 4 Open AI in the Education System**  
Harshini Kavalakuntla  
Faculty Sponsor: Dr. Edward Yihuai Wang
- 5 Sustainability in the Fizz: An Analysis of Coca-Cola's Business Perspective & Sustainability Approach**  
Isabella Rodriguez  
Faculty Sponsor: Dr. Edward Yihuai Wang
- 6 The Impact of Cybersecurity Breaches on Trust and Reputation and its Forgotten Effect on Minority-Owned Businesses and Environmentalist Effort**  
Preston Cotton  
Faculty Sponsor: Dr. Edward Yihuai Wang
- 7 The Possible Impact the 2026 FIFA World Cup Will Have on Atlanta**  
Jennifer Hernandez  
Faculty Sponsor: Dr. Edward Yihuai Wang

# Oral Presentations II

12:00 p.m. - 1:00 p.m.

2<sup>nd</sup> Floor Meeting Rooms



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**Room  
201**

- 1** **"It's just a preference," The Psychology of Colorism and its Applied Effects**  
Kadiatou Cisse  
Faculty Sponsor: Dr. Laura Salazar
  
- 2** **Brain Laterality Change In Infancy**  
Avihhan Arya Kumarr  
Faculty Sponsor: Dr. Armin Iraj
  
- 3** **Examining the Interplay Between Race and Probability Bias**  
Varun Joshi & Snigdha Kamarsu  
Faculty Sponsor: Dr. Page Anderson
  
- 4** **Exploring the Role of RAS in Neuronal Development: A Focus on Dendritic Morphology**  
Rahmah Ibrahim  
Faculty Sponsor: Dr. Dan Cox

## Room 216

- 1** **Grits, Greens, and Glory: Ecowomanism's Influence on Southern Black Queer Activism**  
Ayana Delacruz  
Faculty Sponsor: Dr. Daniel Coleman
- 2** **Panic Tactics in Policy Making: How does the aversion and discrimination against Drag Queens and the Transsexual community in contemporary society compare to the 'Satanic Panic' phenomenon from the late '80s and '90s?**  
Rafaela Berry  
Faculty Sponsor: Dr. Neeley Gossett
- 3** **Queer Hip-Hop Diagrams**  
Maymunah Stroud a.k.a Luna X  
Faculty Sponsor: Dr. Holly Wilkin
- 4** **The Asexual Venus: Queering Lesbian Poetry in 'Spring' from Michael Field's Sight and Song**  
Emma Barrett  
Faculty Sponsor: Dr. LeeAnne Richardson

## Room 217

- 1** **Deep Learning Model for Malignancy Prediction in Skin Images: A Convolutional Neural Network Approach**  
Dominique Pearyer & Chinaza Emeka-Okoye  
Faculty Sponsor: Dr. Lipeng Wan
- 2** **Developing a Weight Controlled Dispensing System**  
Min Khant Zaw & Haneen Ahmed  
Faculty Sponsor: Dr. Andrew Kim
- 3** **Enhancing Educational Outcomes through Mixed Reality Drawing Applications: A New Dimension in Children's Learning**  
Yashwanth Alluri  
Faculty Sponsor: Dr. Haoxin Wang
- 4** **Handwritten Ancient Indian Script Character Recognition Using Convolutional Neural Network**  
Devansh Sinha & Aditya Kumar  
Faculty Sponsor: Dr. Parag Tamhankar

## Room 218

- 1 Black Women and The Feminist Movement**  
Welam Chanase  
Faculty Sponsor: Dr. Neeley Gossett
  
- 2 Disregarding The Black Woman's Mind**  
Ronda Owens  
Faculty Sponsor: Dr. Ashlyn Strozier
  
- 3 Poisoned Roots: Uncovering Enslaved Women's Use of Poison as Intimate Acts of Resistance**  
York Lewis  
Faculty Sponsor: Dr. Tiffany Player
  
- 4 Quilombolas De Luz Capoeira: The Preservation of African Cultural Memory in the American South**  
Liam Diaz-Williamson  
Faculty Sponsor: Dr. Ras Michael Brown



# Oral Presentations III

2:00 p.m. - 3:00 p.m.

2<sup>nd</sup> Floor Meeting Rooms

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## Room 200

- 1 Composing Rehabilitation: Innovating Music-Based Therapy for Stroke Recovery Through an In-Home Therapeutic Piano Training App**  
Evan Szypulski  
Faculty Sponsor: Dr. Martin Norgaard
- 2 Labor In The Creative Industries: 2023 Hollywood Strikes & More**  
William James  
Faculty Sponsor: Dr. David Cheshier
- 3 The Rhetorical Impact of Live Music**  
Victoria Faraon  
Faculty Sponsor: Dr. Lynée Gaillet

## Room 201

- 1 Development of a Sustainable Mobile Fruit and Vegetable Distribution Program at GSU: Formative Research**  
Valeria Alvarado  
Faculty Sponsor: Dr. Nida Shaikh
- 2 Relationship between Dietary Patterns and Angina Frequency in Women with Angina**  
Vishrut Thaker  
Faculty Sponsor: Dr. Rafaela Feresin
- 3 The Socioeconomic Health Divide: An In-depth Analysis of the Impact of Socioeconomic Status on Health Trends in the United States (2019-2022)**  
Hannah Ogidigben  
Faculty Sponsor: Dr. James Marton

## Room 216

- 1** **Detecting Microaggressions Using Large Language Models**  
Varun Joshi  
Faculty Sponsor: Dr. Murray Patterson
- 2** **Emotion Regulation Skills Moderate the Relationship Between Drinking-to-Cope Motives and Sexual Intimate Partner Violence Perpetration**  
Kyle Gluck, Olivia Westemeier, Natasha Gulati, Cynthia Stappenbeck  
Faculty Sponsor: Dr. Cynthia Stappenbeck
- 3** **FEMORA**  
Gayatri Mylarapu Bagepalli, Yateeka Goyal, Karina Carrillo-Lezama  
Faculty Sponsor: Dr. Towhidul Islam S M
- 4** **History Repeats Itself? Exploring the Correlation Between Childhood Abuse and Intimate Partner Violence in Adulthood**  
Citlalli Sandoval, Neneh Jallow, Olivia Westemeier, Emily Patton, Cynthia Stappenbeck  
Faculty Sponsor: Dr. Cynthia Stappenbeck

## Room 217

- 1** **Efficient Purification of Engineering Elongation Factors Tu from *Escherichia coli* to Promote the Study of Protein Translation**  
Yifan Wang, Lanqiao Xiong, Eric Gaucher  
Faculty Sponsor: Dr. Eric Gaucher
- 2** **Motion Matters: Investigating Motion-Related Signals in Resting-State fMRI**  
Samujjwal Kumar  
Faculty Sponsor: Dr. Armin Iraj
- 3** **Graph-Based Predictive Models for Healthcare Recommendations Across Diverse Diseases**  
Ekta Jichkar & Chetan Anjana  
Faculty Sponsor: Dr. Esra Akbas
- 4** **Stoneage Strongmen: Study of Neanderthal Physique and Powerlifting**  
George Hammond  
Faculty Sponsor: Dr. Frank Williams

## Room 218

- 1 Black Gender Indentity Through the Afrofutuerist Lens**  
Sage Lee  
Faculty Sponsor: Dr. Constance Bailey
  
- 2 Examining the Absence of Support Structures that Account for the Intersectionality of Neurodivergent Black Women's Triple Marginalized Identity in Higher Education**  
Songora Naomi Bazira  
Faculty Sponsor: Dr. Kathryn Crowther
  
- 3 Land and Kinship**  
Lucas Howze  
Faculty Sponsor: Dr. Gina Caison
  
- 4 Romani Oppression Through Foucault**  
Sabrina Thomas  
Faculty Sponsor: Dr. David Bell





# Poster Session II

2:15 p.m. - 3:30 p.m.

Student Center East Ballroom

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Schedule](#)

## **A Stone and a Hard Place: Memorialization and Marginalization in the Wake of Stone Mountain**

Florence Hassett & Oak Long  
Faculty Sponsor: Dr. Jennie Burnet

## **The Empty Black Church: Understanding the Dramatic Rise of Secularism in Atlanta's African American Communities**

Briar Murphy  
Faculty Sponsor: Dr. David Bell

## **Embracing Harmony: A Proposal to Explore the Impact of Culturally Responsive Teaching and Culturally Diverse Music on Inclusivity in Secondary General Music Education**

Ebony Lockwood  
Faculty Sponsor: Dr. Lisa Michelle Mercier-DeShon

## **Journalism and Women's Rights**

Essence Gaynor  
Faculty Sponsor: Dr. Stephanie Evans

## **Environmental Justice and Diversity, Equity, Inclusion, & Justice within U.S. NGOs**

Diana Harden  
Faculty Sponsor: Dr. Amy Spring

## **Police Networks and Force Usage**

Maysa Osman  
Faculty Sponsor: Dr. Marie Ouellet

## **Nature Education Programs for Environmental Stewardship**

Raihaanah Bint Abdullah Muslim & Dua Spall  
Faculty Sponsor: Dr. Shannon Finck

**8 Are Latinx Communities Vulnerable to Toxic Releases in Atlanta, GA?**  
Aaron Pacheco  
Faculty Sponsor: Dr. Taylor Shelton

**9 Understanding Disadvantages of Water Pollution on Oral Systemic Health**  
Tiffany Le  
Faculty Sponsor: Dr. Shannon Finck

**10 Promoting Fossils in Southeastern Parks: A Georgia State University and National Park Service Partnership to Help Preserve Non-Renewable Paleontology Resources**  
Olivia Acres, Michael Blore, Carley Wilshire, Christy Visaggi, Justin Tweet, Vincent Santucci  
Faculty Sponsor: Dr. Christy Visaggi

**11 Downscaling NNDSS State Level Data to Finer Geographies**  
Sivgech Heang, Emma McDaniel, Chetan Tiwari  
Faculty Sponsor: Dr. Chetan Tiwari

**12 Clinical Ethics at Grady Memorial Hospital: A Review of Consultation Data in 2022**  
Jasmine Kaur  
Faculty Sponsor: Professor Corinne Battey-Muse

**13 Paleocology of Molluscan Assemblages of the Plio-Pleistocene Nashua Formation in Northern Florida**  
Keya Hopwood, Arlencia Williams, Geonna Acree, Kenneth R. Andrews, Christy C. Visaggi, Roger W. Portell  
Faculty Sponsor: Dr. Christy Visaggi

**14 Was the Vitamin C Synthesis Gene Active in our Primate Ancestors Before it 'Died' and Became a Pseudogene ~70 Million Years Ago?**  
Allison Lipstein & Hameed Sanusi & Nuria Ramirez  
Faculty Sponsor: Dr. Eric Gaucher

**15 Variation in *E. coli* Contamination in the Gwinnett County Streams Before, During and After the Covid Pandemic**  
Gabriele Griquite  
Faculty Sponsor: Dr. Anne-Pierre Goursaud

**16** **Antibiotic-Resistant *Escherichia coli* in Atlanta's Rivers and Streams**  
Madison Gordon  
Faculty Sponsor: Dr. Jessica Joyner

**17** **Writing Interventions to Mitigate Lab Anxiety**  
Jaxson Trammell & Melany William Myers  
Faculty Sponsor: Dr. Erin Tone

**18** **Stand and Deliver, or Sit and Quit? Resilience, Sedentary Behavior, and Physical Activity in the Healthy Student Brain Project**  
Jennalyn Burnette, Mercedes Fyffe, Maria Misiura, Healthy Student Brain Project Investigators and Team, Vonetta Dotson  
Faculty Sponsor: Dr. Maria Misiura

**19** **The Damsel in Distress Effect: Interactive Effects of Benevolent and Hostile Sexism on Bystander Intervention to Prevent Sexual Violence**  
Lauren Tennant, Caleigh Shepard, Dominic Parrott, PhD  
Faculty Sponsor: Dr. Dominic Parrott

**20** **Withdrawn**

**21** **Individual Differences in Perceptions of Aggression: Do Political Beliefs Alter Face Judgments?**  
Annisia Taylor, Canon Kennedy, Ashley Meacham, Beth Stevens, Heather Kleider-Offutt  
Faculty Sponsor: Dr. Heather Kleider-Offutt

**22** **How Perceived Peer Norms Shape Risky Sexual Behavior in College Female Students**  
Jeremiah Tulloch, Kyle Gluck, Anna Peddle, Cynthia Stappenbeck  
Faculty Sponsor: Dr. Cynthia Stappenbeck

**23** **A New Program to Increase Childrens' Positive Empathy and Positive Prosocial Behavior**  
Jenny Wadlington, Josie Bunnell, Trinity Roberts, Laura Mckee, Erin Tully  
Faculty Sponsor: Dr. Erin Tully

**24 Cognitive Offloading by Preschool Children in a Computerized Task**  
Mari Sudhakar, Liz Haseltine, Joseph McKeon, Andres Sanchez, Stella Mayerhoff, Brooke Jackson  
Faculty Sponsor: Dr. Michael Beran

**25 A New Program that Teaches Parenting Strategies for Increasing Children's Empathic Happiness**  
Varshini Kakarla & Alexandra Vodovoz  
Faculty Sponsor: Dr. Erin Tully

**26 The Art of Brain Tracing: Sculpting High-Fidelity Training Data for AI Analysis of Infant Brains**  
Isabelle Le  
Faculty Sponsor: Dr. Sergey Plis

**27 Associations Between Sexual Victimization Severity, Interpersonal Problems, Emotion Regulation, and Sex-Related Drinking Motives**  
Isabella Zeman  
Faculty Sponsor: Dr. Cynthia Stappenbeck

**28 Black Women's Mental Health: Connotations of Adverse Childhood Experiences and Suicidality for Culturally Competent Interventions**  
Brittney G. Ramos  
Faculty Sponsor: Dr. Nadine Kaslow

**29 Believing the Unbelievable: Correlations Between Extremism and Epistemically Unwarranted Beliefs**  
Fatou Thiam, Wiley Bennett, Rachel Heiter  
Faculty Sponsor: Dr. Heather Kleider-Offutt

**30 The Role of Genetics in Addiction: Understanding the Biological Basis of Substance Use Disorders**  
Iniobong Inyang  
Faculty Sponsor: Dr. Jessica Carter

**31 Investigating Hindsight Bias in Super Bowl Predictions: A Failure to Replicate**  
Montserrat Rangel  
Faculty Sponsor: Dr. Andrew Kelly

- 32** **Anxiety and Depression: Can Exercise and Sleep Be the Key? Preliminary Results from the Healthy Student Brain Study**  
Mercedes Fyffe, Maria Misiura, Vonetta Dotson  
Faculty Sponsor: Dr. Maria Misiura
- 33** **Behavioral and Physiological Changes in Capuchin Monkeys (Cebus apella) When Exposed to Three Levels of Arousing Stimuli**  
Samantha Evans  
Faculty Sponsor: Dr. Sarah Brosnan
- 34** **Rhesus Monkeys and Capuchin Monkeys Show Little Evidence of the Connectedness Illusion During Relative Quantity Judgments**  
Katarina Syed, Kathleen Friedlein, Dara Jonkoski, Liz Haseltine, Joseph McKeon, Andres Sanchez, Robert Vera, Brooke Jackson  
Faculty Sponsor: Dr. Michael Beran
- 35** **Prosocial Behavior is Influenced by Social Closeness in Capuchin Monkeys**  
Nutifafa Ayeke & Matthew H. Babb  
Faculty Sponsor: Dr. Sarah F. Brosnan
- 36** **Early Life Pain Alters the Response to an Immune Challenge in Adulthood**  
Varsha Madishetty  
Faculty Sponsor: Dr. Anne Murphy
- 37** **Wirehead: Enabling Distributed Deep Learning Using Concurrent Synthetic Data Generation Pipelines**  
Manh Doan  
Faculty Sponsor: Dr. Sergey Plis
- 38** **Unveiling the Environmental Cost of ChatGPT: A Call for Sustainable AI**  
Matthew Adjin-Tetty, Armis Stokes, Janyla Gunnerson, Makayla Johnson  
Faculty Sponsor: Dr. Anu Bourgeois
- 39** **Analyzing Tumor Microenvironment in Breast Cancer: Feature Extraction and Correlation in Racial Groups**  
Ranjini Ghosh  
Faculty Sponsor: Dr. Jun Kong

**40 Comparative Analysis of Hand-Drawn and Computer-Generated Lesion Mapping in Stroke Patients**

Kimberly Clark

Faculty Sponsor: Dr. Rachael Harrington

**41 Whole Slide Image Machine learning for Tumor Micro-Environment Characterization**

Xuyang Sun

Faculty Sponsor: Dr. Jun Kong

**42 Maternal Health Monitor+: A Personalized Computational Framework for Early Detection and Intervention**

Ashlyn Campbell

Faculty Sponsor: Dr. Anu Bourgeois

**43 Comparison of Cox Regression to Machine Learning for Survival Probability Predictions of Heart Disease Patients**

Zikai Huang

Faculty Sponsor: Dr. Yichuan Zhao

**44 Statistical Analysis of Risk Factors, Prevalence and Trends in Cardiovascular Diseases**

Haochen Ye

Faculty Sponsor: Dr. Yichuan Zhao

**45 Virtual Therapist**

Tisha Thakkar

Faculty Sponsor: Dr. Ashwin Ashok

**46 Does Data Privacy Even Exist Anymore?**

Yujun Kim

Faculty Sponsor: Dr. Bettina Durant

**47 Visually Impaired Guide Robot**

Shadae Page

Faculty Sponsor: Dr. Ashwin Ashok

**48 Effects of a Mixed-Berry Diet on Blood Pressure and Cardiac Hypertrophy in Angiotensin II Treated Male Rats**

Sheryl Varghese, Jessica P. Danh, Kendall Brand, Nakia Thomas, Rafaela G. Feresin  
Faculty Sponsor: Dr. Rafaela G. Feresin

**49 Characterization of Polyphenols in Baru (*Dipteryx alata*) and Their Effects on Palmitic Acid-induced Oxidative Stress in Rat Aortic Vascular Smooth Muscle Cells**

Wesley Grace, Ana Siqueira, Wen Lu, Siming Wang, Rafaela Feresin  
Faculty Sponsor: Dr. Rafaela Feresin

**50 Sufficient Conditions for Irreducible Polynomials Over the Integers**

Bryan Vazquez  
Faculty Sponsor: Dr. Yongwei Yao

**51 Utilizing Multi-Headed Attention to Improve Masked Autoencoders**

Thomas Sigler  
Faculty Sponsor: Dr. Hemanth Venkateswara

**52 TNCA, an Innovative Drug for Calcium Sensing Receptor**

Haonian Zhou  
Faculty Sponsor: Dr. Jenny Yang

**53 Optimized Purification of hProCA32.collagen I for early diagnosis of CLDs (Chronic Liver Diseases)**

Yushan Zhang & Tong Wu  
Faculty Sponsor: Dr. Jenny Yang

**54 Critical Role of Specific Sodium Channels in Generation of Firing Patterns of Primary Nociceptors**

Francesca Santander & Nicole Acosta  
Faculty Sponsor: Dr. Gennady Cymbalyuk

**55 Early-life Adversity Alters Microglial Engulfment of Excitatory Synapses in the Central Nucleus of the Amygdala**

Nneka Otuonye, Michelle Sequeira, Hannah Lichtenstein, Sara Correa, Peter Clements, Jessica Bolton  
Faculty Sponsor: Dr. Jessica Bolton

- 56** **Effects of Temperature on Patterns of Activity of Leech Heart Single Interneurons**  
Liliana Hoot, Destiny Walker, Yousif Shams, Gennady Cymbalyuk  
Faculty Sponsor: Dr. Gennady Cymbalyuk
- 57** **Targeting Inflammatory Cell Death Pathways in Coronavirus Infection: Manipulating Apoptosis for Therapeutic Intervention**  
Devon Williams, Ivy Yun, Abie Negru  
Faculty Sponsor: Dr. Jessica Carter
- 58** **Exploring the Protective Effects of a Berry-Rich Diet on Blood Pressure and Organ Weight in Rats**  
Nakia Thomas, Jessica Danh, Sheryl Varghese, Kendall Brand, Rafaela Feresin  
Faculty Sponsor: Dr. Rafaela Feresin
- 59** **The Effects of Blueberries on Cardiometabolic Health of Middle-aged Female with Prediabetes: a Protocol for a Double-blind, Randomized, Placebo-controlled Pilot Study**  
Lovia Appiah  
Faculty Sponsor: Dr. Rafaela Feresin
- 60** **Development and Characterization of An96 Uricase Nanoparticles for Treating Hyperuricemic Mice**  
Caleb Smith  
Faculty Sponsor: Dr. Eric Gaucher
- 61** **The Effect of Fgf Signaling in Monogamous Organisms**  
Mikayla Ontiveros, Connie Sigari, Agnes Chen  
Faculty Sponsor: Dr. Johnathan Sylvester
- 62** **Exploring the Impact of Vasopressin on Taste Transduction in Human Fungiform Taste Cells**  
Daniel Khosravinezhad, Satya Iyer, Ritika Gangakhedkar, Jean-Pierre Montmayeur  
Faculty Sponsor: Dr. Shawn Dotson
- 63** **Dissecting Shh and Nkx2.1 Roles in Convict Cichlids' Monogamous Behavior**  
Arkar Zaw  
Faculty Sponsor: Dr. Jonathan Sylvester



**64 Paracrine Effects of Somato-Dendritic Oxytocin Release in the Hypothalamus**

Pierre Manuel Bitá Ongolo & Elba Campos-Lira  
Faculty Sponsor: Dr. Javier Stern

**65 NeuroD2 Gene Expression in the Amygdala: Implications for Monogamous Behavior**

Helen Chen, Meena Amiri, Inesh Shrotria, Solomon Ketyebelu  
Faculty Sponsor: Dr. Jonathan Sylvester

**66 Love in the Fish Tank: The Role of Nkx2.1 and Tbr1 on Monogamy**

Nibrass Mohamoud  
Faculty Sponsor: Dr. Jonathan Sylvester

**67 Investigating Intergenerational Effects of Trauma on Middle-Term Memory in *Drosophila melanogaster***

Jessie Jones & Jordyn Jackson  
Faculty Sponsor: Dr. Sarah Clark

**68 Reduced Wnt Expression in Monogamous Convict Cichlid Fish**

Yaqueline Palacios, Isabella Perez, Yatzary Trejo  
Faculty Sponsor: Dr. Jonathan Sylvester

# Experiential Learning Expo

10:30 a.m. - 2:30 p.m.

Student Center East Ballroom



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## **Applied Religious Studies BA and MA**

Our program is a humanities course of studies with professional emphasis. The BA is an interdisciplinary degree using professional skill emphasis to prepare students to work in nonprofit, grad school, journalism, education, law school and etc. The MA program is funded and provides professional certificates such as non-profit management, gerontology and other partnerships.

## **Beckman Scholars Program**

The Beckman Scholars Program gives high-performing undergraduate students in the fields of biomedical sciences, biology, chemistry and neuroscience the opportunity to conduct independent laboratory research under the mentorship of select, expert faculty mentors. Beckman Scholars will benefit from additional professional development opportunities and will be well-positioned to pursue their graduate educations and careers in science. Beckman Scholars will receive \$21,000 over 15 months, including travel and supplies, and their faculty mentors will receive \$5,000 to support educational expenses for their scholars.

## **Center for the Advancement of Students and Alumni (CASA)**

The CASA offers centralized programming to generate interest and promote activities in pursuit of advanced degrees. We do this in a variety of ways, including offering four summer internship programs, four academic year assistantships, travel awards, transition grants, individual professional mentoring, and more.

## **Cyber Security**

Serve as a Work Study Student Assistant in the Cyber Security Operation Center participating in interactive experiences of real-world cyber security events. We offer experimental learning of Next Generation Cyber Security tools and mentoring from a exceptional staff.

## **Department of World Languages and Cultures**

We offer virtual exchange with peer students in other countries; we offer study abroad programs; we arrange for internships and experiential learning opportunities (e.g., translation for the GA Public Defender's Office, Well Star, etc.).

## **Digital Learners to Leaders**

Through Digital Learners to Leaders (DLL) internship course, student-led teams create digital solutions to real challenges students identify. You'll grow digital skills and develop your portfolio, with support and guidance from a diverse group of technology professionals in Atlanta's education, business, government, and non-profit communities. DLL provides a unique opportunity to demonstrate to future employers skillsets in digitization and problem-solving.

### **EPIC (Experiential, Project-based, Interdisciplinary Curriculum)**

EPIC provides GSU students opportunities to develop foundational skills to help them become adaptable problem-solvers, overcoming the academic challenges they face in their studies and creating solutions to the issues they will tackle as they graduate into their professions and lives. The program combines the strengths of an enhanced interdisciplinary education (critical thinking, problem-solving, communication skills) with innovative research and project-based labs. Georgia State is piloting the EPIC program, with elements including integrated Freshman Learning Communities (FLCs) and Project Labs.

### **Georgia State Production Network**

At Georgia State Production Network (GSPN), students gain valuable experience in the television and sports industries while broadcasting live Division I Athletics events for ESPN. Students in GSPN produce and broadcast live sports on the ESPN family of networks. Additionally, students create original video content for the university, including commencement ceremonies, inaugurations, GHSA state championships, the MEAC/SWAC Challenge, and other non-sporting events.

### **Georgia State University Police Department**

Police Service in University setting

### **GSU Biology Department**

Various opportunities to earn academic credits by completing an internship, at GSU or outside of GSU, providing hands-on learning and/or project-base experience involving biology-related skills and/or knowledge.

### **GSU Chemistry Department**

We offer both directed reading and hands-on research to chemistry majors. They can register for CHEM 3950, 4950, 4160, 4170 , 4870 & 4880

### **GSU Geosciences**

We offer an array of experiential learning including field courses, research-based courses, internships, community-based partnership work, and more. We also run the Sustainability Fellowship Program at the university that provides funding to students doing internships in sustainability.

### **GSU Psychology Practicum Program**

The Practicum Program helps connect students with research opportunities or on-site applied experiences with community partners. Students work and receive training in a setting where psychological methods and principles are applied in a community setting (PSYC4770) or through directed research in faculty labs (PSYC4760).

### **GSU Signature Experiences**

Signature Experience courses optimize learning by doing through hands-on experiences. These courses are found in every major and include opportunities such as internships, research, service-learning, and more.

### **GSU/GT Center for Advanced Brain Imaging (Reading Research Lab)**

We are recruiting for on-going Neuroscience Studies for typical and non-typical readers. These studies are compensated and subjects can receive a picture of their brain.

### **Honors College Thesis and Discovery Undergraduate Journal**

All undergraduate students are eligible to complete a two-semester Honors Thesis for course credit. Additionally, the Honors College is in the process of revamping our Undergraduate Research Journal, Discovery, which is also open to all undergraduate students.

### **Life Science Industry Certificate**

The Quality Assurance in Life Science Industries Certificate is an opportunity to gain unique training that equips students to join the biotech or pharmaceutical industry with a bachelor's degree. We also partner with a nonprofit that provides students with extra mentorship, internship and job opportunities, and a hiring platform as they complete the credential.

### **National Center for Sexual Violence Prevention**

We offer volunteer research assistantships where students will work on research projects focused on sexual violence, substance use, and mental health.

### **Project Paths at the Resilient Families and Youth Lab**

We are a study that is focused in learning about STEM students journey at GSU. We are recruiting more students for the study and looking for potential research assistants to join our psychology lab.

### **Research and Internships for Neuroscience Students**

The Neuroscience Institute coordinates on- and off-campus opportunities for Neuroscience majors and minors to participate in research and internships. Opportunities include basic, translational, and clinical research, industry internships, and much more!

### **Research Initiations in Mathematics, Mathematics Education and Statistics (RIMMES)**

The program is free, selective, and introduces undergraduate students to mathematical research by pairing them with a mentor for the Mathematics and Statistics Department who will supervise them in a research project for the duration of the academic year.

### **SciSynth: A Journey into Scientific Computing (summer camp)**

This week-long summer camp offers undergraduate students the opportunity to delve into scientific computing, exploring its applications in comprehending and addressing a wide array of natural, financial, and social inquiries.

### **STEP PREP**

STEP PREP aims to reduce barriers in the psychology graduate education process by supporting BIPOC undergraduate students through mentorship. Currently, STEP PREP provides resources for applications to graduate school including an asynchronous lecture series.

### **University Career Services**

Assist students in finding their professional paths by providing resume review, mock interviews, professional headshots, career counseling, Co-op & Internship search and much more.

### **University Library**

The University Library provides many opportunities for student research and learning. Students can meet subject librarians who provide specialized instruction and consultation in their academic area, discover unique primary source archival material in Special Collections and Archives, and learn valuable new data skills with Research Data Services.

### **Urban Studies Institute**

We have an undergraduate minor in Urban Studies that is a nice match for several degrees. Many of our professors utilize hands on research in classes and student may apply to work on grant projects.



*Special thanks to the members of the 2024 GSURC Student Planning Committee for all of their hard work on the conference!*

Ekta Jichtar (Chair), *Computer Science*

Salem Mutata (Co-Chair) , *Biology*

Sudip Agrahari, *Computer Information Systems*

Adedamola Akapo, *Computer Science*

Autumn Davis, *Pre-Nursing (Exploratory)*

Joanna Fedjo, *Psychology*

Alecia Ferguson, *Psychology*

Nkkezi George, *Biomedical Science & Enterprise*

David Hoffman, *Journalism*

Sarah Keller, *Psychology*

Iyanu Kofoworade, *Psychology & Management*

Sydnee Lear, *Actuarial Science and Data Science*

Tamaya Mayweather, *Neuroscience*

Melissa Morri, *Psychology*

Niruthiya Narashiman Srinivasan, *Computer Science*

Tafara Nenguke, *Biomedical Science and Enterprise*

Nya Nicholson, *Biomedical Science and Enterprise*

Jennifer Ogbodo, *Computer Information Systems*

Davinia Omiponle, *Chemistry*

Adeola Omole, *Psychology*

Diya Patel, *Finance*

Puja Raol, *Neuroscience*

Mahadia Rahman, *Public Health*

Harish Reddy Koyya, *Neuroscience*

Sheryl Varghese, *Chemistry*



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*Psychology*

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*Art Education*