



UNIVERSITY OF  
**GEORGIA**

Center for Undergraduate  
Research Opportunities

2024

**CURO**

Symposium

highlighting UGA's undergraduate research

April 8-9, 2024 • Classic Center  
Athens, GA

**25<sup>th</sup>**

ANNIVERSARY

**Program**

# 2024 CURO Symposium

highlighting UGA's undergraduate research



**Welcome to the 2024 CURO Symposium!** Hosted by the Center for Undergraduate Research Opportunities, the two-day event highlights exceptional undergraduate research at the University of Georgia. Across campus, administrators, faculty and staff members, and graduate and undergraduate students have collaborated to make this an invaluable academic event.

This year, we are celebrating the 25th anniversary of the CURO Symposium. The 2024 Symposium features 623 undergraduates communicating their substantial research accomplishments. The presenters are pursuing 188 different majors from 16 schools and colleges and are conducting research with 279 faculty members from 75 departments.

The CURO Symposium is a celebration of our students' hard work and engagement in research as well as the commitment of their faculty mentors to their success, which would not be possible without UGA's broad and substantial investment in outstanding experiential learning opportunities.

Thank you for your continued support of undergraduate research and the Center for Undergraduate Research Opportunities.

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# Schedule

## Monday / April 8, 2024

*Oral sessions will be held in Athena Rooms B, C, D, G, H, and I.*

All Day

**Café Curo**  
*Athena Room A*

10:20-11:10 a.m.

**Oral Session 1**

11:30 a.m. to 12:20 p.m.

**Oral Session 2**

12:40-1:30 p.m.

**Oral Session 3**

1:50-2:40 p.m.

**Oral Session 4**

1:50-2:40 p.m.

**Introduction to Mentoring**  
**(for graduate students)**  
*Athena Room D*

2:45-3:10 p.m.

**Eclipse Viewing**  
*Classic Center Parking Deck*

3:15-4 p.m.

**Awards and Keynote Session**  
*Athena Room E*

4-6 p.m.

**Poster Session**  
*Grand Hall South*

## Tuesday / April 9, 2024

All Day

**Café Curo**  
*Athena Room A*

9:35-10:50 a.m.

**Oral Session 5**

11:10 a.m. to 12:25 p.m.

**Oral Session 6**

12:45-2 p.m.

**Oral Session 7**

2:20-3:35 p.m.

**Oral Session 8**

3:55-5:10 p.m.

**Oral Session 9**

# CURO Research Mentoring Awards

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The Office of the Senior Vice President for Academic Affairs and Provost and the Jere W. Morehead Honors College established the CURO Research Mentoring Awards at the first CURO Symposium in 2001 to recognize outstanding faculty who consistently engage undergraduate researchers through CURO programming (courses, symposium, summer fellows, theses, etc.) and also enhance the learning experience of undergraduate researchers at the University of Georgia. Award recipients have provided superior research opportunities and mentoring and have collaborated with undergraduate researchers on publications and presentations at professional conferences.

The 2024 recipients are **Dr. Ramviyas Nattanmai Parasuraman**, left, *Assistant Professor, School of Computing, Franklin College of Arts and Sciences and College of Engineering*, and **Dr. Hea Jin Park**, right, *Associate Professor, Department of Nutritional Sciences, College of Family and Consumer Sciences*. Previous recipients and their years are listed below.



## 2023 recipients

- **Dr. Brandon Rotavera**, *Associate Professor, School of Environmental, Civil, Agricultural, and Mechanical Engineering, College of Engineering, and Department of Chemistry, Franklin College of Arts and Sciences*
- **Dr. Vincent Starai**, *Associate Professor, Department of Microbiology, Franklin College of Arts and Sciences*

## 2022 recipients

- **Dr. Xiaoqin Ye**, *Professor, Department of Physiology and Pharmacology, College of Veterinary Medicine*
- **Dr. Puneet Dwivedi**, *Associate Professor of Sustainability Sciences, Warnell School of Forestry and Natural Resources*

## 2021 recipients

- **Dr. Cheryl T. Gomillion**, *Assistant Professor, School of Chemical, Materials, and Biomedical Engineering, College of Engineering*
- **Dr. Walter K. Schmidt**, *Georgia Cancer Coalition Distinguished Cancer Scholar, Department of Biochemistry and Molecular Biology, Franklin College of Arts and Sciences*

## 2020 recipients

- **Dr. Jamie Cooper**, *Associate Professor, Department of Foods and Nutrition, College of Family and Consumer Sciences*
- **Dr. David Cotten**, *Research Scientist, Department of Geography, Franklin College of Arts and Sciences*

# CURO Symposium Best Paper Awards

CURO Symposium Best Paper Awards recognize excellence in papers developed from work being presented at this year's Symposium. Applicants may submit in one or more of the following categories: Arts, Humanities, and Media; Business; Life Sciences; Physical and Environmental Sciences; Public and International Affairs; Social Sciences; and Technology, Engineering, and Math.

Each recipient is recognized at the Symposium's Awards and Keynote Session, and each award carries \$100 in financial support. Recipients for the 2024 CURO Symposium are listed below, along with their research topics and faculty mentors.

## ARTS, HUMANITIES, AND MEDIA

### David Ryan Burke

*"El mal de Chagas: una perspectiva histórica y la urgencia de financiar las vacunas para lucharlo"*

Faculty Mentor: Leonard Martin Ward

### Savannah Catherine Chruszcz

*"The Evolution of the Georgia Museum of Natural History Collections in the Twentieth Century"*

Faculty Mentor: Suzanne Pilaar Birch

## BUSINESS

### Ria Sardana

*"An Exception to the Economic Loss Doctrine for Cybersecurity Negligence: The Independent Duty of Care"*

Faculty Mentor: Lindsay Sain Jones

## LIFE SCIENCES

### Ria Ashish Doshi

*"A Multi-Muscle Analysis of Resting versus Active Motor Threshold Using Transcranial Magnetic Stimulation"*

Faculty Mentor: Deborah A. Barany

### Jonathan Luke Bowles

*"Optimization of Tool Use and Social Learning in Red Fire Ants"*

Faculty Mentor: Takao Sasaki

## PHYSICAL AND ENVIRONMENTAL SCIENCES

### Abbey Wilson

*"Developing Real-Time qPCR Methods for Antimicrobial Resistance Gene Quantification for Application in Wastewater-Based Epidemiology"*

Faculty Mentor: Erin K. Lipp

## PUBLIC AND INTERNATIONAL AFFAIRS

### Isabella Marie Cabibi

*"What Influences a State's Strength of Commitment to Human Rights Treaties?"*

Faculty Mentor: Andrew Owsiak

## SOCIAL SCIENCES

### Kelly Luo

*"The Effects of Relationship Status on Epigenetic Aging"*

Faculty Mentor: Man-Kit Lei

## TECHNOLOGY, ENGINEERING & MATH

### Ekaa Kasetty

*"S-nitroso Polyethyleneimine (PEI-SNAP) lock solution for combatting catheter related infections"*

Faculty Mentor: Hitesh Handa

# Libraries Undergraduate Research Awards

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Since 2007, the UGA Libraries has sponsored the Undergraduate Research Awards, which provide cash prizes for excellence in research and academic inquiry. All UGA undergraduates conducting research are eligible.

Whether an undergraduate is creating a historical thesis, policy paper, composition for piano or a scientific study, they are eligible to apply for the award. The criteria include meeting with a librarian for a research consultation, writing a three- to five-page essay describing and reflecting upon the research process and project; and including a bibliography of sources used in the paper, among others. Prizes range from \$200-\$300.

Recipients for the 2024 CURO Symposium are listed below, along with their research topic, their librarian, and their faculty mentor.

## FIRST PLACE

### **Sara Logston**

“On the Group Structure of Conic Sections and Elliptic Curves”

*Faculty Mentor: Jimmy Dillies*

*Librarian: Cynthia Prosser*

## HONORABLE MENTION

### **Savannah Chruszcz**

“Researching the Georgia Museum of Natural History”

*Faculty Mentor: Suzanne Pilaar Birch*

*Librarian: Elizabeth White*

## HONORABLE MENTION

### **Paige Sobczak**

“The Role of Rab12 in Primary Ciliogenesis in Astrocytes and Neuronal Cells”

*Faculty Mentor: Hui Zhang*

*Librarian: Diana Hartle*

## JUROR'S CHOICE

### **Shriya Rasale**

“Race-Gendered Intersectionality of Black Undergraduate Women in Computing (BUWC): Preliminary Scale Development and Validation”

*Faculty Mentor: Krystal Williams*

*Librarian: Amber Prentiss*

## MOST PROMISING FIRST-YEAR RESEARCH

### **Hannah Bowen**

“Drug Discovery for Multiple Hereditary Exostoses”

*Faculty Mentor: Ryan Weiss*

*Librarian: Holly McMasters*

## ONE TIME SPECIAL AWARD FOR EXTENSIVE USE OF LIBRARY EXPERTISE

### **Alimata Bah**

“The Rise of Coups in West/Central Africa and Human Rights”

*Faculty Mentor: K. Chad Clay*

*Librarian: Elizabeth White*

## Oral Session 1

Monday,  
10:20-11:10 a.m.  
Athena Breakout Rooms

Room B	<b>Christina Caroline McArdle</b>	Examining whether Marfan Syndrome Variants affect O-glycosylation of Fibrillin-1	<i>Dr. Robert S. Haltiwanger</i>
	<b>Ryan Belfi</b>	How Culture Connects Us: International Student Integration and Identity	<i>Dr. Doris Acheme</i>
Room C	<b>Ryan Bohn</b>	Contextualizing "The God of Restoration" by Sui Sin Far	<i>Dr. Susan Rosenbaum</i>
	<b>Riley Brennan Deyo</b>	The Problem of Authorship in Fernando Pessoa's The Book of Disquiet: A Buddhist Perspective	<i>Dr. Hyangsoon Yi</i>
	<b>Grace Deaton</b>	Virginitly to Harlotry and Back Again: An Examination of Mary of Egypt in Fifteenth Century Books of Hours	<i>Dr. Cynthia Turner Camp</i>
Room D	<b>Megan A Miller, Catherine Adair</b>	A Content Analysis of Women in Families from Intersectional, Contextual, and Global Perspectives	<i>Dr. J. Maria Bermudez</i>
	<b>Abbie Scott Gilbert</b>	The Moderating Effects of Mindfulness on the Association Between Adverse Childhood Experiences and Adult Mental Health	<i>Dr. Ted Futris</i>
	<b>Katie Ruby Bonilla, Leticia De La Vega</b>	The Everlasting Effects of the COVID-19 Pandemic on the Lived Experiences of Community Health Workers/Promotoras of Lazos Hispanos	<i>Dr. J. Maria Bermudez</i>
Room G	<b>Caden Eric Wolf, Juliana Hartley</b>	Quantitative Differences in Violations of IIA and IEA in Social Choice	<i>Dr. Keith Dougherty</i>
	<b>Grace Elizabeth Lorys</b>	Packing the Courts: The Reality of Partisan Voting	<i>Dr. Christina Boyd</i>
	<b>Justin Cohen</b>	Challenging the Leaders: Modern Congressional Primary Challenge Rates and Effects on the Legislative Process	<i>Dr. Charles Bullock</i>
Room H	<b>Riza Khan</b>	Investigating Biofilm Formation in Mycoplasma cynos and Mycoplasma felis	<i>Dr. Grazieli Maboni</i>
	<b>Snehal Kancharlawar</b>	Healthy Neutrophils Are Able to Kill Cystic Fibrosis Clinical Isolates of Methicillin-Resistant Staphylococcus aureus	<i>Dr. Balazs Rada</i>
	<b>Linda Jawahar</b>	Mosquito Cell Adapted Zika Virus Replicates in Expanded Temperature Range	<i>Dr. Melinda Ann Brindley</i>

# Monday, April 8, 2024

## Oral Session 2

Monday, 11:30 a.m.  
to 12:20 p.m.  
*Athena Breakout Rooms*

Room B	<b>Benjamin Brown</b>	Analyzing Sight-Singing Strategies Using an Eye Tracker	<i>Dr. Rebecca L Atkins</i>
	<b>Mohammed Q. Al Eethawi</b>	The Encoding of Andreas Vesalius	<i>Dr. Erika T Hermanowicz</i>
	<b>Neely McCommons</b>	The Other Mother: Wet Nursing in Brazil during the 19th and 20th Centuries	<i>Dr. Cassia Roth</i>
Room C	<b>Joshua Simon Track</b>	Exploring the Barbarian in Plato's Republic	<i>Dr. Athanasios Samaras</i>
	<b>Erin O'Keefe</b>	The Sentimental Side of Mary Wollstonecraft: Her Painful, Pleasurable, and Eternal Sublime	<i>Dr. David Mark Diamond</i>
	<b>Jordan Stanley</b>	A UGA Prayerbook in Paris? Beguine Prayerbooks and the Hargrett Hours	<i>Dr. Cynthia Turner Camp</i>
Room D	<b>Zarae Allen</b>	Only Students Know: Student ratings of instructor humor predict their emotions about science lab institutions compared to researcher ratings	<i>Dr. Erin L Dolan</i>
	<b>Madison Intemann</b>	Drug Discovery for Mucopolysaccharidosis Type IIIA	<i>Dr. Ryan Joseph Weiss</i>
	<b>Jason Lu</b>	Investigating Interaction and Regulation of DCLK3 by SIRT2	<i>Dr. Natarajan Kannan</i>
Room G	<b>Carlee Michelle Harris, Samuel Wilson, Ella Darby, Parker Gronewoller</b>	Formulating The Parameters of Plastination: Acetone Ratio Experiment	<i>Dr. Krzysztof Czaja</i>
	<b>Evan Jacob Sinclair, Alvin Thomas, Ghanshyam Patel</b>	Misconceptions in Plastination	<i>Dr. Krzysztof Czaja</i>
	<b>Areeb Khan</b>	Oxidative Killing of Klebsiella pneumoniae by Hypothiocyanite in vitro and in vivo	<i>Dr. Balazs Rada</i>
Room H	<b>Allison Patricia Diaz-Fernandez</b>	Two plasmid modules to assess relative strengths of DNA-sequence dependent activities in transcription initiation, termination, and translation initiation	<i>Dr. Hiroshi T Ichikawa</i>
	<b>Venkata Atluri</b>	Uterine Epithelial Progesterone Receptor (PR) in Regulating Uterine Fluid Movement During Early Pregnancy in Mice	<i>Dr. Xiaoqin Ye</i>
	<b>Gavin Paul</b>	Exosomes Derived from Cystic Fibrosis Sputum Display Increased Neutrophil Elastase Activity Compared to Healthy Neutrophil-Derived Exosomes	<i>Dr. Balazs Rada</i>



## Oral Session 3

Monday,  
12:40-1:30 p.m.  
Athena Breakout Rooms

Room B	Anna Hu	The Sinicization of Near East Music in Chinese Music	<i>Dr. Jean Kidula</i>
	Abby McWethy, Dyllon Glaze, Andrea Almon	A Collection of Little Things: the Study of Telling Small Stories Through Theatre	<i>Dr. Vivian Appler</i>
	Jillian Mitchell	Acting on the Spot: What Techniques Get Us There?	<i>Thomas Anthony Marotta</i>
Room C	Ella Carver	The Presidential Opinion: An Exploration of Presidential Rhetoric and the Death Penalty	<i>Dr. K C. Clay</i>
	Bridget Goodman, Mia Nicole Sharpe, Rohan Deulkar, Trevor Frank	A Landscape of State Reauthorization: Present Policies and Practices Protecting Institutional Quality	<i>Dr. Erik Ness</i>
	Makayla Massie-Ann Bangoura	How Does the Relationship among the Permanent Five Members (P5) of the United Nations Security Council (UNSC) Affect the Speed with Which the UNSC Intervenes in Internationalized Military Conflicts?	<i>Dr. Andrew Owsiak</i>
Room D	Amman Khan	The Emergence of Aneuploidy in <i>Cryptococcus neoformans</i>	<i>Dr. Robert Blake Billmyre</i>
	Srisneha Vallabhajosyula	Curation and Analyses of Drug Distribution across Tissues	<i>Dr. Eugene Douglass</i>
	Sophia Gavalas	Mycobacterium tuberculosis secreted effector protein, PE17, binds eukaryotic lipid droplets	<i>Dr. Vincent Joseph Starai</i>
Room G	Cindy Argueta	Examining the Influence of Discrimination, Racism, and Social Relationships on Externalizing Behaviors among Latinx Youth	<i>Dr. Thania Galvan</i>
	Matthew Isaiah Mendez Bazan	Partner-Involved Financial Incentive Treatments: How the Behavioral Approach System Predicts Partner Success in Smoking Cessation	<i>Dr. Michelle R vanDellen</i>
	Anushi Nigam	Effects of Obesity on White Matter Integrity and Cognition	<i>Dr. Jennifer McDowell</i>

**Oral Session 4**  
Monday,  
1:50-2:40 p.m.  
*Athena Breakout Rooms*

<b>Room H</b>	<b>Kelly Ngoc Nguyen</b>	Comparing the Fitness of the Malarial Parasite and its Mosquito Vector in Different Sexes of Mice	<i>Dr. Ashutosh Pathak</i>
	<b>Vaishnavi Harsha Chennareddy</b>	Spatiotemporal Uterine Fluid Absorption in Mouse Uterus During Estrous Cycle	<i>Dr. Xiaoqin Ye</i>
	<b>Amirreza Moghisi</b>	Hypothiocyanite Generated by Lactoperoxidase or Myeloperoxidase Inactivates Influenza Viruses in Vitro	<i>Dr. Balazs Rada</i>
<b>Room I</b>	<b>Logan Armstrong Kelly</b>	Identification and Characterization of Potential FGFRs in <i>Hymenolepis diminuta</i>	<i>Dr. Tania Rozario</i>
	<b>Matthew Rosenberg</b>	Are There Associations between Changes in Tibiofemoral Cartilage Composition and Step Count in Anterior Cruciate Ligament Reconstructed Patients Post-Intervention?	<i>Dr. Caroline Lisee</i>
	<b>Sidney Kien Minh Nguyen</b>	Chromosome-Specific Events in Early Mitotic Divisions	<i>Dr. Katie Billmyre</i>
<b>Room B</b>	<b>Abigail Schulze</b>	The Potential of a Dance Classroom: Developing Independent Dancers through Critical Thinking Practices in Dance Education	<i>Prof. Rebecca Lynn Gose</i>
	<b>Avery Scott</b>	Transposition Processes of Cirque and Aerial Tradition Onto Dance Movement	<i>Dr. Lisa Fusillo</i>
	<b>Lauren Mattson</b>	The Marvel of Medieval Medical Miracles: Understanding the Role of Medieval Medical Saints through their depictions in 15th Century Books of Hours.	<i>Dr. Cynthia Turner Camp</i>
<b>Room C</b>	<b>Alexa Nicole Robles</b>	Developing a Chatbot to Improve Prenatal Testing Education Amongst Pregnant Women	<i>Dr. Elena Karahanna</i>
	<b>Sophia Beasley</b>	Influencers and Financial Markets: Crossing the Liability Line?	<i>Prof. Lindsay Sain Jones</i>
	<b>Samuel Tucker Denton</b>	The Immigration Debate: Reconsidering the Economic Literature and The Effects of Wage Dispersion	<i>Dr. Brantly M Callaway</i>

<b>Room G</b>	<b>Sara Anis Ali</b>	Evaluating the Measures of Chronic Absenteeism in Georgia Public Schools	<i>Megan Bramlett</i>
	<b>Aakash Agrawal</b>	From Education to AI Elevation: The Influence of Talent Investment on National Competitiveness	<i>Dr. William Lastrapes</i>
	<b>Aiden Hammond, Samuel Lemus, Quinton Heald</b>	MEMESite: Developing MEMESat-1's Role in Fostering Public Space Interaction and Educational Outreach	<i>Dr. Deepak R Mishra</i>
<b>Room H</b>	<b>Yeongseo Son</b>	Ecotin Inhibits Neutrophil Elastase in Cystic Fibrosis Airway Samples	<i>Dr. Balazs Rada</i>
	<b>Aryn Elizabeth Wright</b>	Assessing the Levels of Immunoglobulin A Provided by Vaccinated Mothers to their Pups for Protection against Bordetella pertussis	<i>Dr. Eric T. Harvill</i>
	<b>Abby Branch</b>	Developing a Treatment for PIV3: Characterization of Structural Binding and Neutralization Capabilities of Monoclonal Antibodies	<i>Dr. Jarrod Mousa</i>
<b>Room I</b>	<b>Stone Chuden Goldberg, Carolyn Hornsby</b>	A Bio-based CO2 Capture System	<i>Dr. Hiroshi T Ichikawa</i>
	<b>Tiffanie Torrey</b>	Growing Cyanobacteria, Synechocystis, in the Influent of Municipal Wastewater Treatment Facility is an Effective Way to Reduce BOD, and to Consume Atmospheric CO2	<i>Dr. Hiroshi T Ichikawa</i>
	<b>Ammad Farooq, Arjun Kotapalli</b>	Assessing Cell Adhesion in a 3D Bone Model	<i>Dr. Karen JL Burg</i>

## Awards and Keynote Session

Monday, 3:15 to 4 p.m.

*Athena Room E*

### Welcome and Introductions

Meg Amstutz

*Dean of the Jere W. Morehead Honors College*

### Remarks

Jere W. Morehead

*President of the University of Georgia*

### Awards Introduction

Andrea Silletti

*CURO Program Coordinator*

### CURO Research Mentoring Awards

Shelley B. Hooks

*Associate Vice President for Research*

### CURO Symposium Best Paper Awards

Marisa A. Pagnattaro

*Vice President for Instruction*

### UGA Libraries' Undergraduate Research Awards

Elizabeth White

*Research and Instruction Librarian for Political Science, International Affairs, Public Administration, and Criminal Justice*

### Introduction of the Keynote Speaker

Lily W. Lofton, *Ph.D. Candidate, NSF Graduate Research Fellow, Department of Plant Pathology*

David Forest Richards, *Ph.D. Candidate & Lab Principal Research Associate, Department of Geology*

### Keynote Address

Ron Walcott

*Vice Provost for Graduate Education and Dean of the Graduate School*

### Closing Comments

Meg Amstutz

*Audience adjourns to Poster Session and Symposium Reception, held in Grand Hall South.*

**Poster Session**, Monday, 4 to 6 p.m., *Grand Hall South*

<i>Poster 1</i>	<b>Yeongseo Son</b>	Reviewing the Efficacy of Neutrophil Elastase Inhibitors in Chronic Lung Disease Patients	<i>Dr. Holly Gallagher, Biological Sciences</i>	<i>Stamps Scholar</i>
<i>Poster 2</i>	<b>Harshil Joshi</b>	Investigating Neurodegeneration on-set post Mechanical Injury in a 3D TBI-on-Chip Platform	<i>Dr. Lohitash Karumbaiah, Animal &amp; Dairy Science</i>	<i>Stamps Scholar</i>
<i>Poster 3</i>	<b>Aerica Worrell</b>	Sleep and Impulsivity as Mechanisms for the Link between Parental Neglect and Substance Abuse	<i>Dr. Charles Geier, Human Development &amp; Family Science</i>	<i>Stamps Scholar</i>
<i>Poster 4</i>	<b>Samuel Cortes</b>	Tissue Nano-transfected Cellular Nerve Allografts Drives Nerve Regeneration and Improved Vascularity	<i>Dr. Daniel Gallego-Perez, The Ohio State University</i>	<i>Stamps Scholar</i>
<i>Poster 5</i>	<b>Rohan Datta</b>	Developing a computational pipeline for suggesting alternative greener solvents	<i>Dr. Rampi Ramprasad, Georgia Institute of Technology</i>	<i>Stamps Scholar</i>
<i>Poster 6</i>	<b>Leanna Bernish</b>	The benefits of perceiving growth following adversity: A synthesis of the meta-analytic evidence	<i>Dr. Eranda Jayawickreme; Dr. Veronica Cole, Wake Forest University</i>	<i>Stamps Scholar</i>
<i>Poster 7</i>	<b>Jaden Zelidon</b>	Non-Dependent Opioid Abuse in Remission and Experience of Depression	<i>Sahra Ibrahim, University of Maryland</i>	<i>Stamps Scholar</i>
<i>Poster 8</i>	<b>Phúc Phan</b>	Exploring the Influence of Appearance-related Social Media Consciousness and Geosocial Networking App Use among Latinx Sexual Minority Men's Mental Health: Acculturation and Machismo as Moderators	<i>Dr. Thomas Le, Bryn Mawr College</i>	<i>Stamps Scholar</i>
<i>Poster 9</i>	<b>Kajal Patel</b>	An analysis of academic testing methods and intrinsic student motivation	<i>Dr. Geoffrey Herman, University of Illinois at Urbana-Champaign</i>	<i>Stamps Scholar</i>
<i>Poster 10</i>	<b>Anusha Ghosh</b>	A Historical Analysis of Health Institutions, Professionals, and Advocates in the Civil Rights Movement in Columbia, South Carolina	<i>Dr. Bobby Donaldson, University of South Carolina</i>	<i>Stamps Scholar</i>
<i>Poster 11</i>	<b>Nicholas Myers*, Mattie Steed, Sophie Slyman</b>	Systematic Literature Review of the Interaction Between Cognitive Impairment in Dementias and Flooring Design in Institutional and Residential Settings	<i>Dr. Stephen Correia, Gerontology</i>	<i>*Stamps Scholar</i>

<b>Poster 12</b>	<b>Sophie Slyman, Nicholas Myers*</b>	Cognitive Screening Measures for Identifying MCI and Dementia: A Guide for Rural Primary Care Providers	<i>Dr. Stephen Correia, Gerontology</i>	<i>*Stamps Scholar</i>
<b>Poster 13</b>	<b>Leslie Velasquez</b>	Characterizing the Dementia Needs for diagnosis, support, and education among the Hispanic/Latinx Population in Georgia	<i>Dr. Anita M Reina</i>	<i>Gerontology</i>
<b>Poster 14</b>	<b>Micole Sy</b>	The Association Between Physical Activity Levels and Caffeine Intake	<i>Dr. Jennifer L Gay</i>	<i>Health Promotion &amp; Behavior</i>
<b>Poster 15</b>	<b>Bansari Shah</b>	The Association Between Gym Frequency, Intensity, and Daily Step Count	<i>Dr. Jennifer L Gay</i>	<i>Health Promotion &amp; Behavior</i>
<b>Poster 16</b>	<b>Alana Avery Gantley</b>	The Difference in Caffeine Consumption Between Men and Women Compared to their Physical Activity	<i>Dr. Jennifer L Gay</i>	<i>Health Promotion &amp; Behavior</i>
<b>Poster 17</b>	<b>Ashna Patel, Harper Pendley</b>	Direct and Indirect Effects of Disclosure Experiences with Sex Partners and care providers on depressive symptoms among newly HIV diagnosed Sexual Minority Men	<i>Dr. Nathan Hansen</i>	<i>Health Promotion &amp; Behavior</i>
<b>Poster 18</b>	<b>Areeba Mirza</b>	Exploring the Role of Birthing Companions Among Black Women in the United States: A Qualitative Study	<i>Dr. Tamora A Callands</i>	<i>Health Promotion &amp; Behavior</i>
<b>Poster 19</b>	<b>Isabella Sofia Fernandez</b>	How Climate Change is Affecting the Insurance Industry	<i>Dr. Michelle Ritchie</i>	<i>Health Policy &amp; Management</i>
<b>Poster 20</b>	<b>Natalie Wong</b>	Learning About Food Insecurity in Athens-Clarke County Using Key Informant Interviews	<i>Dr. Michelle Ritchie</i>	<i>Health Policy &amp; Management</i>
<b>Poster 21</b>	<b>Husna Merchant</b>	Determinants of Awareness of Fentanyl Test Strip (FTS) for detecting Fentanyl in Drugs among Persons Who Inject Drugs in Northeast Georgia	<i>Dr. Mohammad Rifat Haider</i>	<i>Health Policy &amp; Management</i>
<b>Poster 22</b>	<b>Christopher Floyd</b>	The 3 Part Data Review focused on UHC's Counseling and Psychiatric Services "Access" Model Program Improvement and Analysis	<i>Dr. Zhuo Chen</i>	<i>Health Policy &amp; Management</i>
<b>Poster 23</b>	<b>Logan Haynes</b>	In Vitro Spermatogenesis and Dosing with Tobacco Smoke Extract Followed by Analysis with Muse Cell Analyzer	<i>Dr. Chas Easley</i>	<i>Environmental Health Science</i>
<b>Poster 24</b>	<b>Emily McDonald, Nathan Yeboah</b>	Comparing Pachytene Visualization between Standard and Enriched Meiotic Spread Protocol in In Vitro Differentiated Spermatocytes and Monkey Testes Tissue	<i>Dr. Chas Easley</i>	<i>Environmental Health Science</i>

<b>Poster 25</b>	<b>Lexie Godfrey</b>	The Effects of Fentanyl on the DNA Methylation Levels at the OPRM-1 Gene	<i>Dr. Chas Easley</i>	<i>Environmental Health Science</i>
<b>Poster 26</b>	<b>Nina Lynn Caprice</b>	Characterizing Antibiotic Resistance in Aeromonas Isolates from Athens Waterways	<i>Dr. Erin K. Lipp</i>	<i>Environmental Health Science</i>
<b>Poster 27</b>	<b>Abbey Wilson</b>	Developing Real-Time qPCR Methods for Antimicrobial Resistance Gene Quantification for Application in Wastewater-Based Epidemiology	<i>Dr. Erin K. Lipp</i>	<i>Environmental Health Science</i>
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<b>Poster 375</b>	<b>Tal Ben-Bassat</b>	Peer-Led Success: Investigating the Key Elements of Effective STEM Study Pods	<i>Dr. Ania A Majewska</i>	<i>Physiology &amp; Pharmacology</i>



<b>Poster 376</b>	<b>Jehan Sheikh</b>	Enhancing Infectious Bronchitis Diagnostics: Optimizing Primers for Next-generation Sequencing	<i>Dr. Brian Jordan</i>	<i>Population Health</i>
<b>Poster 377</b>	<b>Pierce Charles Bagby</b>	Understanding Patterns of Antibiotic Resistance in Salmonella Isolated from Surface Water	<i>Dr. Nikki Shariat</i>	<i>Population Health</i>
<b>Poster 378</b>	<b>Connor Norris</b>	Exploring Campylobacter Phylogeny Using Publicly Available Genomes	<i>Dr. Nikki Shariat</i>	<i>Population Health</i>
<b>Poster 379</b>	<b>Dawson Templin, Caroline Coggin</b>	Development of an In Vitro Bone Scaffold to Probe Osteoblast and Metastatic Breast Cancer Cell Interactions	<i>Dr. Karen JL Burg</i>	<i>Small Animal Medicine &amp; Surgery</i>
<b>Poster 380</b>	<b>James Garner, Allison Diaz, Jackson Borders</b>	A microbiome that consists of bacteria with different growth rates	<i>Dr. Branson W Ritchie</i>	<i>Small Animal Medicine &amp; Surgery</i>
<b>Poster 381</b>	<b>Kimmi Dulaney, Riley Hansen, Reesa Schroeder</b>	Modeling of Ciliate Swimming Patters Using Machine Learning	<i>Dr. Hiroshi T Ichikawa</i>	<i>Small Animal Medicine &amp; Surgery</i>
<b>Poster 382</b>	<b>Madison Chapman</b>	The Expression Levels of Fluorescence Proteins, mNeptune 2 and eGFP, are Preserved in E. coli cells when stored at -20C.	<i>Dr. Hiroshi T Ichikawa</i>	<i>Small Animal Medicine &amp; Surgery</i>
<b>Poster 383</b>	<b>Vishnavi Batchu</b>	Prenatal Exposure to Bisphenol-A and its Analogs Induces Changes in Lipid Metabolism in the Liver	<i>Dr. Sheba MJ MohanKumar</i>	<i>Veterinary Biosciences &amp; Diagnostic Imaging</i>

# Tuesday, April 9, 2024

## Oral Session 5

Tuesday,  
9:35-10:50 a.m.  
Athena Breakout Rooms

<b>Room B</b>	<b>Hannah Julianne Bowen</b>	Drug Discovery for Multiple Hereditary Exostoses	<i>Dr. Ryan Weiss</i>
	<b>Justin Kim</b>	Conformations of Serine Hydroxymethyltransferase from <i>Thermus Thermophilus</i>	<i>Dr. Robert Stephen Phillips</i>
	<b>Imrie Ross</b>	Synthesis and Characterization of Biobased Thermoplastic Polyester Elastomers	<i>Dr. Jason Locklin</i>
	<b>Yeongseo Son</b>	Visualizing Genes Relevant to Caste Development in Whole Mount Ooceraea Biroi Larvae	<i>Dr. Christopher Mark West</i>
<b>Room C</b>	<b>Caitlyn Noelle Miller</b>	Resilience and Ruin: Unearthing the Social-Ecological History of Scull Shoals, Georgia	<i>Dr. Michelle Ritchie</i>
	<b>Emily Ezratty</b>	Balancing Acts: The Unintended Consequences of Export Controls and Their impact on Human Security	<i>Dr. Maryann Gallagher</i>
	<b>Ansley Elizabeth Whitlock</b>	Behind Closed Doors: Investigating the Shadow of Public Misogynistic Violence in Private Spaces	<i>Dr. Maryann Gallagher</i>
	<b>Sean Manning</b>	A Press-ing Presence: Analyzing Chinese Media Engagement Patterns in Africa	<i>Dr. Maryann Gallagher</i>
<b>Room D</b>	<b>Lainey Gammon</b>	Finding Hidden Galaxies at High Redshift with JWST: Red F150W-Dropout Galaxies in the COSMOS-Web Survey	<i>Dr. Loris Magnani</i>
	<b>Joseph Clarke</b>	Phenological Effects on Anthocyanin Pigment Production in <i>Claytonia virginica</i>	<i>Dr. Megan DeMarche</i>
	<b>Elise Larson</b>	Role of RKD Transcription Factors in <i>Arabidopsis thaliana</i> in the Transition from Gametophytic to Zygotic Development	<i>Dr. Wolfgang Lukowitz</i>
	<b>Jay Mrazek</b>	Preliminary Results from Fiber Optic Distributed Temperature Sensing of an Alabama Cave Stream	<i>Dr. Charlotte Garing</i>
<b>Room G</b>	<b>Christian Spence</b>	Neuroprotective Mechanistic Studies in a Neurotoxicity Model of Parkinsonism	<i>Dr. Anumantha Kanthasamy</i>
	<b>Grace Catherine Resetar, Joshua Rapp</b>	Assessing Reliability of a Psychoneurological Test Battery	<i>Dr. Phillip Tomporowski</i>
	<b>Caroline Coggin</b>	Reliability of Ultrasound Estimates of Arterial Structure and Shear Rate in Children with Cerebral Palsy	<i>Dr. Christopher Modlesky</i>

**Oral Session 6**  
 Tuesday, 11:10 a.m.  
 to 12:25 p.m.  
 Athena Breakout Rooms

<b>Room H</b>	<b>Rawad Khalil Basma</b>	Cannabinoids increase food intake and impulsive eating behavior	<i>Dr. Emily Noble</i>
	<b>Luna An</b>	Culturing rotifers for simulation of algae-bloom bioremediation	<i>Dr. Branson W Ritchie</i>
	<b>Snigdha D. Ganjikunta</b>	Impacts of Urban-Rural Gradients on Zoonotic Tapeworm (Echinococcus species) Infections in Wild Canids	<i>Dr. Christopher A. Cleveland</i>
	<b>Paige Lane Sobczak</b>	The Role of Rab12 in Primary Ciliogenesis in Astrocytes and Neuronal Cells	<i>Dr. Hui Zhang</i>
<b>Room B</b>	<b>Aris Dominguez-Canela</b>	Inclusive Excellence in Performing Arts: Discovering Challenges and Crafting Solutions for Accessibility, Storytelling, and Teaching Verbiage	<i>Prof. George Contini</i>
	<b>Lauren Scaffidi</b>	Glowing Up for Going Out: Going Out as Performance	<i>Dr. Aaron Meskin</i>
	<b>Molly Hays</b>	“The love that dare not speak its name:” Richard Hudson Library of Gay Literature and History, Queer Archives, and the Neutrality Debate	<i>Dr. Kathryn Manis</i>
	<b>Matthew Cates</b>	Avatar and Self: Measuring the Virtual-to-Physical Transference of Digital Identities into Physical Realities	<i>Dr. Jewon Lyu</i>
<b>Room C</b>	<b>Bao Nguyen</b>	Optimizing a Luciferase Reporter Assay for High Throughput Screening of Liver-Stage Plasmodium Parasites: Cost-Efficiency and Validation with Immunofluorescence Methodologies	<i>Dr. Dennis Kyle</i>
	<b>Trey Smith</b>	Resistance of Serratia liquifaciens Strains to Nickel Toxicity	<i>Dr. Mike Adams</i>
	<b>Janice Teal-Urquides</b>	Dependence of the Expression and Localization of a GPN-GTPase on its O-fucosylation in T. Gondii	<i>Dr. Christopher Mark West</i>
	<b>Reilly Stevens</b>	Time Course Study of the Relationship between Bacterial Cell Growth and Pathogenicity in Bordetella and Achromobacter	<i>Dr. Maor Bar-Peled</i>

<b>Room D</b>	<b>Elizabeth Vershkov</b>	Shaping Perceptions: Transnistria's Media Coverage in Western European and Russian Sources	<i>Dr. Olga Thomason</i>
	<b>Heather Bittle</b>	Russian Language in Latvia: Investigating Current Perceptions	<i>Dr. Victoria Hasko</i>
	<b>Jacob Funk-Sheppard</b>	Soviet Buddies: A Critical Analysis of Mimino	<i>Dr. Charles Byrd</i>
	<b>Natalie Marie Schott</b>	The Lexical Semantics of Contemporary English Borrowings in the Russian Language	<i>Dr. Olga Thomason</i>
<b>Room G</b>	<b>Mark Anthony Adams</b>	Les Dames de la Dédiabolisation: Women Candidates of the French Radical Right	<i>Dr. Maryann Gallagher</i>
	<b>Clemencia El Antouri</b>	Tourism and Human Rights in the MENA Region	<i>Dr. Maryann Gallagher</i>
	<b>Virginia Ruth Williams</b>	CEDAW'S Affect on Femicide in Latin America	<i>Dr. K C. Clay</i>
	<b>Kiana Bussa</b>	Do states with greater LGBTQ inequality engage in more conflict? Rethinking gender in international relations	<i>Dr. Maryann Gallagher</i>
<b>Room H</b>	<b>Anderson Smith</b>	Exploring Phylogenetic Relationships between Abomasal Nematodes in White-Tailed Deer ( <i>Odocoileus virginianus</i> ) in West Virginia	<i>Dr. Michael Yabsley</i>
	<b>Sarah Katherine Carnes</b>	Analysis of Northern Purple-Faced Langur Calling Behavior Across Sri Lanka's Dry-Zone	<i>Dr. Roberta Salmi</i>
	<b>Bella Delullo</b>	Estimating the Age of White-tailed Deer Fawns Using Body Measurements	<i>Dr. Gino D'Angelo</i>
<b>Room B</b>	<b>Janai Wells</b>	Insights From the Field: Perspectives Of Sources In Solutions Journalism Stories Produced By Student Journalists	<i>Dr. Kyser Lough</i>
	<b>Noor Abdallah</b>	Picturing the Overturn of Roe V. Wade: An Analysis of Newsroom Instagram Photographs and their Photographers	<i>Dr. Andrea Hudson</i>
	<b>Grace Wills</b>	Communicating Uncertain Science to the Public	<i>Dr. Chelsea Bush</i>

## Oral Session 7

Tuesday,  
12:45-2 p.m.

*Athena Breakout Rooms*

<b>Room C</b>	<b>Anya Shroff</b>	Usage of Conditioning Media to Create an in Vitro Model of Psoriasis	<i>Dr. Vladimir Reukov</i>
	<b>Krishna Teja Krottapalli</b>	Unveiling the Alliance: Interaction Between Microplitis Demolitor and Bracovirus	<i>Dr. Gaelen Burke</i>
	<b>Ian Alexander Moore</b>	Timing of Virus Replication in Diachasmimorpha longicaudata: A Step Towards Understanding the Evolution of a Unique Relationship Between a Parasitoid Wasp and its Beneficial Virus	<i>Dr. Gaelen Burke</i>
<b>Room D</b>	<b>Katerina Dmitrivna Khudoleyev</b>	A Divided World: Marketing in Russia and the United States	<i>Dr. Alexandra Shapiro</i>
	<b>Nicholas Heiniger</b>	Chained Voices: Assessing the Impact of Freedom of Assembly Restrictions on Peaceful Protests in Russia	<i>Dr. Alexandra Shapiro</i>
	<b>Mercedes Bengs</b>	Remote Warfare in Ukraine: Citizen Intelligence and Casualties	<i>Dr. Alexandra Shapiro</i>
	<b>Shelby Landes Linton</b>	Fight Fire with Fire; Soft Power with Soft Power	<i>Dr. Alexandra Shapiro</i>
<b>Room G</b>	<b>Emma Jade Martin</b>	Building a Dementia Awareness and Health Promotion Program for Rural Medically Underserved Communities in Georgia	<i>Dr. Stephen Correia</i>
	<b>Sophie Volpe</b>	A Hard Pill to Swallow: Applying Feminist Epistemology to Patient Care	<i>Dr. Cecilia Herles-Hallauer</i>
	<b>Shriya Garg</b>	The Digital Divide: County-Level Disparities in Access to Broadband and Medical Providers in the United States	<i>Dr. Bhav Jain</i>
	<b>Mina Ziai</b>	Transforming Barriers to Bumps: Examining Concerns Department Heads Share Along the Path to Changing Teaching Evaluation	<i>Dr. Tessa C Andrews</i>
<b>Room H</b>	<b>Kendall Madison Long</b>	Changes in Expression of Genes Mediating Calcium Uptake in the Ileum of Laying Hens at 25 and 95 Weeks of Age	<i>Dr. Laura Ellestad</i>
	<b>Jayla Ariel Andrews</b>	Determining the Effects of Heat Stress on Thyrotropic and Somatotropic Gene Expression in Breast Muscle of Fast and Slow-growing Broiler Lines.	<i>Dr. Laura Ellestad</i>
	<b>Bella Beach</b>	Expression of calcium transport proteins in the shell gland of commercial laying hens at 25 and 95 weeks of age	<i>Dr. Laura Ellestad</i>

## Oral Session 8

Tuesday,

2:20-3:35 p.m.

Athena Breakout Rooms

Room I	<b>Tenacity Murdie</b>	Modeling the Interactive Effects of Backyard Bird Feeding, Predation, and Infection in Wild Bird Populations	<i>Dr. Richard John Hall</i>
	<b>Luke Bowles</b>	Optimization of Tool Use and Social Learning in Red Fire Ants	<i>Dr. Takao Sasaki</i>
	<b>Kendrick Micheal Borst Jr.</b>	Route Learning During Carrying in <i>Temnothorax Rugatulus</i>	<i>Dr. Takao Sasaki</i>
Room B	<b>Ishika Varma Dantuluri</b>	Characterization of Domain Interactions between <i>Drosophila Dscam1</i> and Slit Using Co-Immunoprecipitation	<i>Dr. Daichi Kamiyama</i>
	<b>Stephanie Beatrice Gogita</b>	Solving Necrosis in Organoids Using Plant Roots as Artificial Vasculature	<i>Dr. Nadja Zeltner</i>
	<b>Cristina Lalu Samuel</b>	Improving the Efficacy of Malaria Vaccination	<i>Dr. Samarchith P Kurup</i>
Room C	<b>Harini Tirumala</b>	Learning Lessons from SisterSong: How Southern Qualities Can Be Guiding Tools for Future Progressive Socio-Political Frameworks	<i>Dr. Cecilia Herles-Hallauer</i>
	<b>Melanie Kim</b>	Navigating Bureaucratic Barriers: An In-Depth Analysis of Abortion Access in Rural America	<i>Dr. Maryann Gallagher</i>
	<b>Avery Jaininey</b>	"Daddy Issues": An Evaluation of Institutional Fatherhood Politics	<i>Dr. Maryann Gallagher</i>
	<b>Ellie Loventhal</b>	How the United States Implemented their 2019 National Action Plan for Women, Peace, and Security: A Descriptive Analysis	<i>Dr. Maryann Gallagher</i>
Room D	<b>Sara Adkins</b>	Development of Russian Speaking Communities in the US	<i>Dr. Alexandra Shapiro</i>
	<b>Anastasia Draughn</b>	From Skepticism to Strategy: Unveiling Business Perspectives on AI Implementation	<i>Dr. Olga Thomason</i>
	<b>Abby Marisa Herring</b>	Contemporary Perceptions of Joseph Stalin Through the Lens of Social Media	<i>Dr. Olga Thomason</i>

**Oral Session 9**  
 Tuesday,  
 3:55-5:10 p.m.  
 Athena Breakout Rooms

<b>Room G</b>	<b>Henry Traynor</b>	Early Warning Signals for Invasive Species	<i>Dr. Pejman Rohani</i>
	<b>Catherine Elizabeth Kearney</b>	Does Parasite Infection affect Reproductive Diapause and Migratory Characteristics of Monarch Butterflies?	<i>Dr. Sonia Altizer</i>
	<b>Elianna M.K. Fox</b>	Spatial Variation in Resource Utilization of the Atlantic Mud Crab ( <i>Panopeus herbstii</i> ) Across the South Atlantic Bight	<i>Dr. James E. Byers</i>
	<b>Dana Wells</b>	Individual and Social Learning of Tandem Running Routes	<i>Dr. Takao Sasaki</i>
<b>Room H</b>	<b>Alex Watts</b>	Autism and BDSM: The Impact of Communication within Sexual Scripts	<i>Dr. Anna Rogers</i>
	<b>Ezinna Ononuju</b>	Redefining Vigilantism for the Internet Age	<i>Dr. Thomas L McNulty</i>
	<b>Bella Morris</b>	The Effect of the Western Diet on Astrocyte Reactivity	<i>Dr. Emily Noble</i>
	<b>Audrey Markham</b>	An Exploration of a Courtwatching Group	<i>Dr. James Coverdill</i>
<b>Room B</b>	<b>Elizabeth Bravo</b>	Behavioral Observation Coding Systems with Latinx Preschoolers and their Parents: A Critical Review and Analysis	<i>Dr. Cynthia Suveg</i>
	<b>Jemeya Mariyam Thomas</b>	An Examination of Infant Sleep Quality on Motor Skill Development	<i>Dr. Drew Abney</i>
	<b>Kiernan O'Mara</b>	Association Study Between Age and Sex on Psychosis Biomarkers	<i>Dr. Brett Clementz</i>
<b>Room C</b>	<b>Emma Griffin</b>	The Blurred Lines Between Advocacy and Violence: The Impact of Environmental INGOs on Ecoterrorism	<i>Dr. Amanda Murdie</i>
	<b>Dillon Tobias Causby</b>	The Unlikely Survival of the Japanese Communist Party	<i>Dr. Bill B. Barber</i>
	<b>Cailyn Bowser</b>	Mangrove Tree Crab Resource Use in a Novel Salt Marsh Environment	<i>Dr. Amanda Spivak</i>
	<b>Ashley Ogega</b>	An Exploration into the Legal Trends and Disparities of the Athens-Clarke County Magistrate Court System	<i>Prof. Christine Scartz</i>

<b>Room D</b>	<b>Carleigh Brisendine, Lyla Gahl, Sara Adkins, Mercedes Bengs, Christopher Haswell, Jessica Sobieski, Heather Bittle, Emily Fegel, Nicholas Heiniger</b>	Areas Where Russian is Commonly Spoken: A Student-Led Educational Website	<i>Dr. Alexandra Shapiro</i>
	<b>Emily Jane Medlock</b>	Linguistic Homogeneity and Ethnic Tensions	<i>Dr. Sofia Ivanova</i>
	<b>John Williford</b>	The Role of Renaming Settlements in Kazakh Ethnic Relations	<i>Dr. Alexandra Shapiro</i>
<b>Room G</b>	<b>Erin Gavin</b>	Model Performance of 1-D and 2-D Puerto Rican Watersheds	<i>Dr. Felix Luis Santiago Collazo</i>
	<b>Sadah Schell, William Carlson, Obada Abuelhaija</b>	Enhancing Canine Biomechanical Analysis: Refining DawGait MATLAB App for Accurate Joint - Angle Representation	<i>Dr. Eliza Banu</i>
	<b>Erika Nicole Landree</b>	Novel Three-Dimensional Printed Piezoelectric Breast Cancer Bone Metastasis Model	<i>Dr. Cheryl T. Gomillion</i>
	<b>Hesha Amin</b>	Investigating Fuel Sloshing Behavior in Containers and Rockets of Varying Sizes: A Simulation Based Approach	<i>Dr. Eliza Banu</i>



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# Acknowledgments

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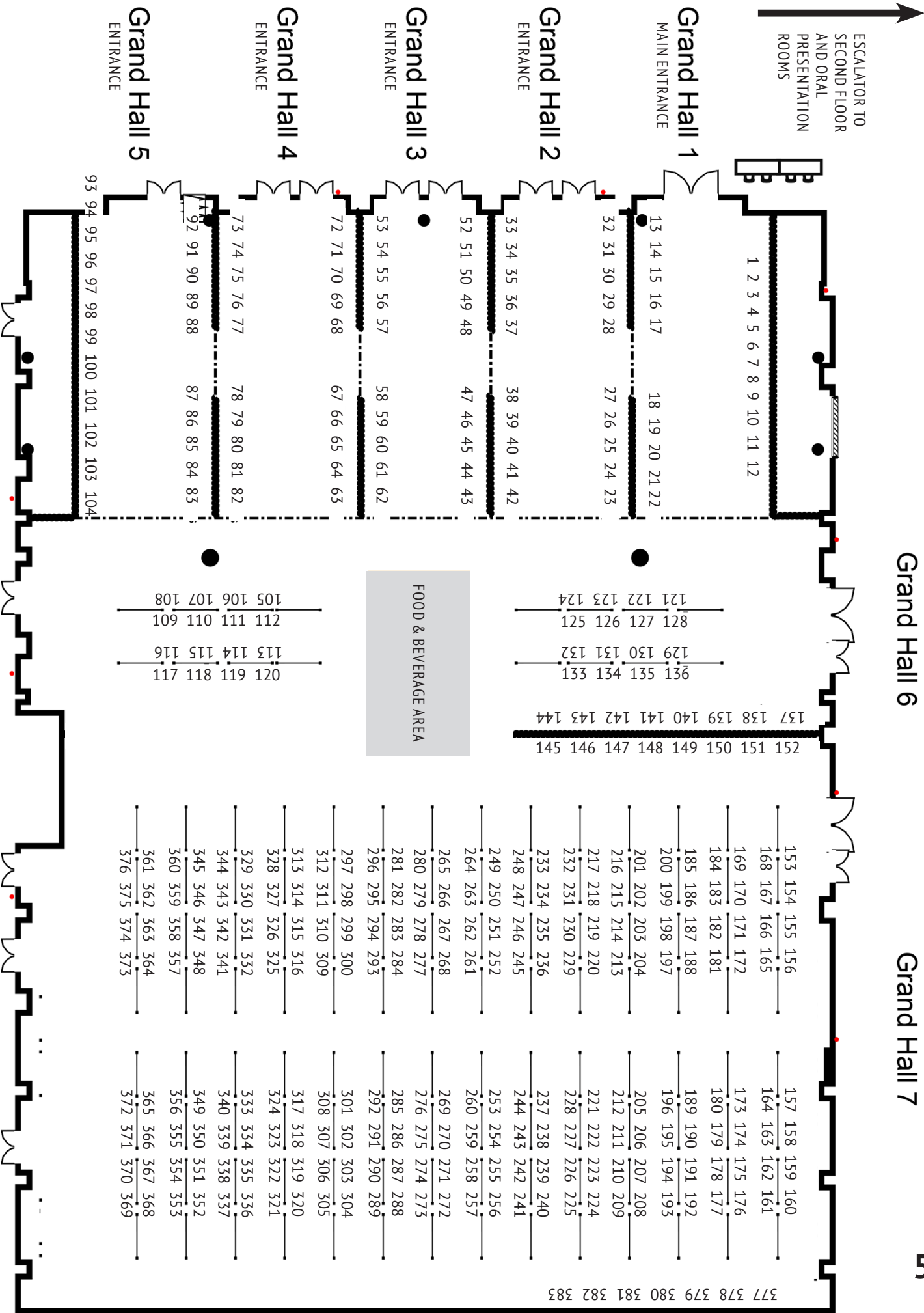
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