



WORKS IN PROGRESS SYMPOSIUM



2018 Works In Progress Symposium  
October 29, 2018  
University Center, 3<sup>rd</sup> Floor

## Welcome to the 2018 Works in Progress Symposium

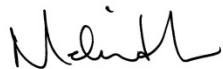
The Helen Hardin Honors College is proud to sponsor the 2018 Works in Progress Symposium. This annual event provides a means for undergraduate students throughout the University to share their research with the general University community, and recognizes the significant contribution to research by University of Memphis undergraduates.

Providing undergraduates with the opportunity to engage in scholarly research is important to our students' educational experience and professional development. I applaud all the faculty mentors for providing an exceptional learning experience for their students. Very special thanks are due to the faculty evaluators, who kindly provide feedback to the student presenters to better prepare their research projects for submission to professional conferences.

To the student presenters, I want to offer congratulations for the quality research you have accomplished and for your participation in the Works in Progress Symposium.

Best wishes to all faculty, staff, and students who make this event possible.

Sincerely,



Melinda Jones, Ph.D.  
Director

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## The Helen Hardin Honors College thanks the following faculty members for volunteering their time as evaluators for the 2018 Works in Progress Symposium:

Dr. Joel Bumgardner, Biomedical Engineering  
Dr. Timothy Brewster, Chemistry  
Dr. Su Chen, Mathematical Sciences  
Dr. Melloni Cook, Psychology  
Dr. Amanda Edgar, Communication & Film  
Dr. David Goodman, Communication & Film  
Ms. Tammy Jones, English  
Dr. Mohamed Laradji, Physics  
Dr. Kenny Latta, Anthropology  
Dr. Deranda Lester, Psychology  
Mr. Anthony Maranise, Interdisciplinary Studies  
Ms. Becky McCabe, Psychology  
Dr. Michael Monahan, Philosophy  
Dr. Max Paquette, Health Studies  
Dr. Philip Pavlik, Psychology  
Dr. Douglas Powell, Health Studies  
Dr. Robin Roach, Health Studies  
Dr. Helen Sable, Psychology  
Dr. Nicholas Simon, Psychology  
Ms. Cynthia Stockton, Sociology  
Dr. Sachiko Terui, Communication & Film

## Works in Progress Symposium Fall 2018 Presentations

### RIVER ROOM (300)

**12:00 PM      Antoinette Jackson**

*Identity Presentation Across Social Media Platforms*

Faculty Mentor: Dr. Joy Goldsmith, Communication

**12:30 PM      Brittany Lewis**

*The Genderlect Theory: Its Application to the Real World*

Faculty Mentor: Dr. Joy Goldsmith, Communication

**1:00 PM      William Middleton**

*Representation of African Americans in Television*

Faculty Mentor: Dr. Joy Goldsmith, Communication

**1:30 PM      Charles D. Payne II**

*Preventing or Creating Inequality? Removal of Confederate Monuments and Statues*

Faculty Mentor: Dr. Joy Goldsmith, Communication

**3:00 PM      Quvilo Sherrod**

*Acute and Chronic Biomedical and Performance Effects of Training with iTrain Fundamentals Bar*

Faculty Mentor: Dr. Max Paquette, Health Studies

**3:30 PM      Alexis Nelson**

*Effects of Stride Length on Ankle and Knee Joint Powers and Moments in Simulated Obese Populations*

Faculty Mentor: Dr. Douglas Powell, Health Studies

### BLUFF ROOM (304)

**12:00 PM      William Cain**

*Fabrication and Characterization of Electrospun Templates from Polyioxanone and its Co-Polymers*

Faculty Mentor: Dr. Gary Bowlin, Biomedical Engineering

**12:30 PM      Kasyap Cherukuri**

*Electrospun Branched-Clusters as Fundamental Units of Articular Cartilage*

Faculty Mentor: Dr. Gary Bowlin, Biomedical Engineering

**1:00 PM      Xin Ju**

*Determining the Difficulty of Math Problems from Surface Linguistic Features*

Faculty Mentor: Dr. Alistair Windsor, Math

**2:30 PM      Kamron Jafari**

*Partially and Fully Anchored Shear Walls Under Cyclic Loading*

Faculty Mentor: Dr. Charles Camp, Civil Engineering

**3:00 PM      Chandler Sears**

*Development of G Protein-Coupled Receptor Deorphanization Protocol: Application GPR37L1*

Faculty Mentor: Dr. Daniel Baker and Dr. Abby Parrill, Chemistry

**3:30 PM      Brianna Miller**

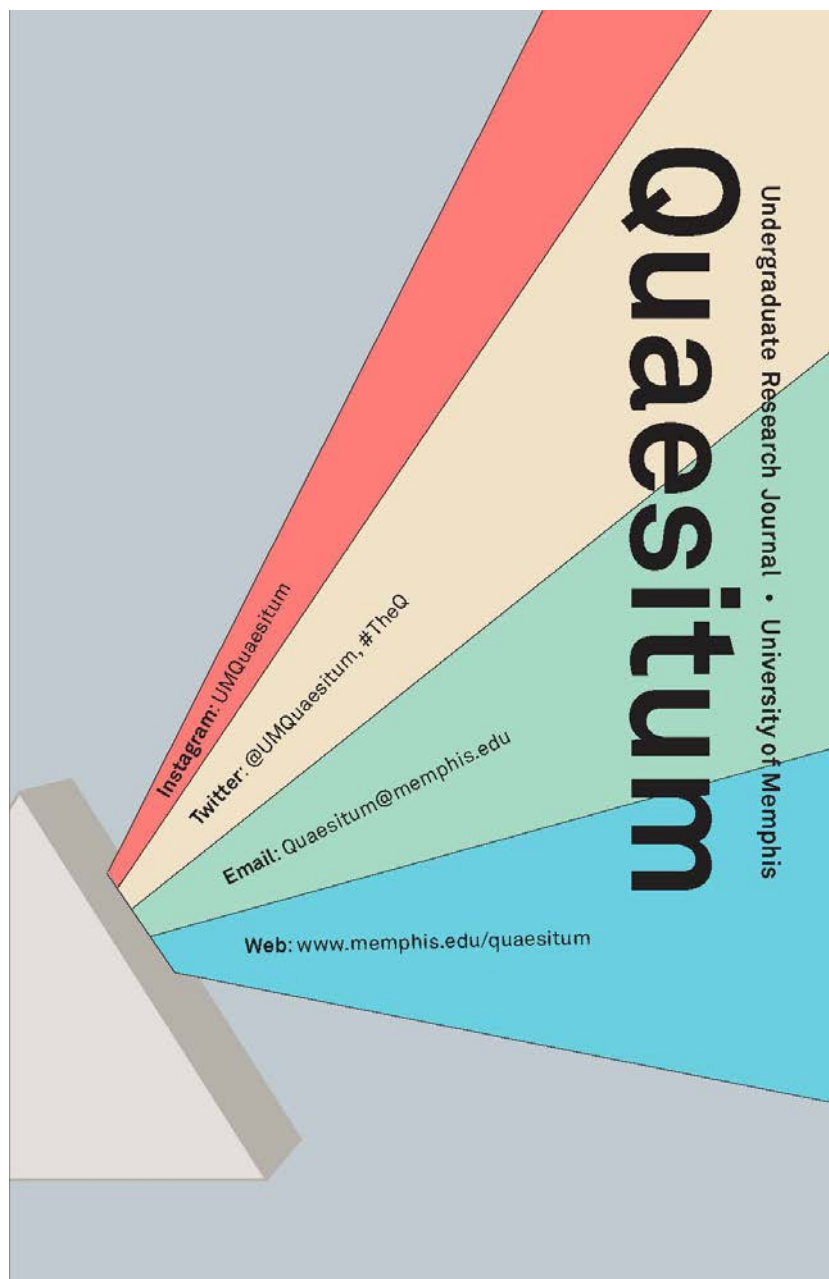
*Simulation of Vacancy Enhanced Diffusion Using KMC*

Faculty Mentor: Dr. Xiao Shen, Physics

**4:00 PM      Jacob Parks**

*Factors Influencing Coating Uniformity: Spin Speed Effect on Phosphor Coatings on Aerogel Substrates*

Faculty Mentor: Dr. Firouzi Sabri, Physics



## Upcoming Undergraduate Research Opportunities:

### **Posters at the Capital**

Nashville, TN  
February 27, 2019

### **Student Research Forum**

University Center Ballroom  
March 2019

### **Southern Regional Honors Conference**

Peabody Hotel, Memphis TN  
March 28-30, 2019

### **National Conference on Undergraduate Research**

Kennesaw State University  
April 10-13, 2019

## SHELBY ROOM (342)

**12:00 PM**      **Roa Salah**

*The Effect of Environmental and Social Enrichment on Dopamine Transmission*

Faculty Mentor: Dr. Deranda Lester, Psychology

**12:30 PM**      **Shelby Towers**

*Examining the Effects of Environmental Enrichment on Mesolimbic Dopamine Release*

Faculty Mentor: Dr. Deranda Lester, Psychology

**1:00 PM**      **Abigail Barger**

*Parents and Their “Puzzles”*

Faculty Mentor: Dr. Joy Goldsmith, Communication

**1:30 PM**      **Scott Melton**

*Big Impact for Small Business*

Faculty Mentor: Dr. Joy Goldsmith, Communication

**3:00 PM**      **Kelse Matthews**

*Predictors of Unhealthy Weight Control Behaviors of Adolescents: A Systematic Review*

Faculty Mentor: Dr. Xu Jiang, Psychology

**3:30 PM**      **Kaeli Johnson & Tyler Hanson**

*Social and Cognitive Aspects of Language*

Faculty Mentor: Dr. Gina Caucci, Psychology

**4:00 PM**      **Sarah Altareb**

*Does Cocaine Reward Have a Genetic Component?*

Faculty Mentor: Dr. Nicholas Simon

## POPLAR ROOM (308)

**12:00 PM**      **Ian Story**

*African American Code Switching Experiences in the Workplace*

Faculty Mentor: Dr. Joy Goldsmith, Communication

**12:30 PM**      **Roshannah Pollard**

*The Portrayal of Michael Brown in National News Posthumous*

Faculty Mentor: Dr. Joy Goldsmith, Communication

**1:00 PM**      **Lucy Vick**

*A Burkean Analysis of: This is America*

Faculty Mentor: Dr. Joy Goldsmith, Communication

**1:30 PM**      **Lauren Fischer**

*Development of a Gluten-Free and Vegan Chocolate Chip Banana Bread for Those with Medically Diagnosed Food Allergies and Those with Food Preferences*

Faculty Mentor: Dr. Terra Smith, Health Studies

**2:00 PM**      **Ashton Terry**

*Systematic Review and Meta-Analysis of Glycemic Control and Stress in Youth with Type I Diabetes*

Faculty Mentor: Dr. Kristoffer Berlin, Psychology

**2:30 PM**      **Hunter Franks**

*The Effects of Environment in Adolescence on Risky Decision-Making*

Faculty Mentor: Dr. Nicholas Simon, Psychology

**3:00 PM**      **Nathan Galloway**

*A Student Documentary About the Meaning of Rivalry and Research into the Phenomenon*

Faculty Mentor: Dr. Cody Havard, Hospitality

**4:00 PM**      **Haven Hemphill**

*The Dilemma of Ebonics and Education*

Faculty Mentor: Dr. Joy Goldsmith, Communication

## MEMPHIS A ROOM (340A)

**12:00 PM**      **Haleigh Joyner**

*Effect of Epigallocatechin-3-gallate and Caffeine on Risky Decision-Making*

Faculty Mentor: Dr. Nicholas Simon, Psychology

**1:00 PM**      **Mary Katherine Reynolds**

*Mental Health Outcomes in Women Exposed to Abusive Romantic Relationships: Does Number of Abusive Partners Matter?*

Faculty Mentor: Dr. J. Gayle Beck, Psychology

**1:30 PM**      **Sonia Hopkins**

*Associations Between Early Childhood Stress, Cognitive Functions, and Marijuana Use*

Faculty Mentor: Dr. James Murphy, Psychology

**2:00 PM**      **Robyn Pennella**

*Examining the Effects of Social Interaction and Nicotine Exposure on Mesolimbic Dopamine Functioning*

Faculty Mentor: Dr. Deranda Lester, Psychology

**2:30 PM**      **Abigail Chaffin**

*Examining the Effects of Chronic Cannabinoid Activation on Mesolimbic Dopamine Release*

Faculty Mentor: Dr. Deranda Lester, Psychology

**3:00 PM**      **Megan McWain**

*Effects of Chronic Cannabinoid Agonists on Mesolimbic Dopamine Release and Related Behavior*

Faculty Mentor: Dr. Deranda Lester, Psychology

**3:30 PM**      **Bennett Brown**

*Using Conditioned Place Preference to Examine Abuse Liability in Cannabinoid Agonist That May Be Anxiolytic*

Faculty Mentor: Dr. Helen Sable, Psychology

**4:00 PM**      **Madison Mills**

*Examining the Impact of Social Interaction on Mesolimbic Dopamine Transmission in Male and Female Mice*

Faculty Mentor: Dr. Deranda Lester, Psychology

## MEMPHIS B ROOM (340B)

**12:00 PM**      **Johnda Washington**

*Alcohol and Related Risks in Limpopo, South Africa*

Faculty Mentor: Dr. Karen Ingersoll, Anthropology

**12:30 PM**      **Jacob Haines**

*Physical and Behavioral Adaptations of Pleistocene Hominids as a Response to Water Scarcity*

Faculty Mentor: Dr. Kathryn Hicks, Anthropology

**1:00 PM**      **Christopher Vanbeukering**

*In Search of Common Ground: Solving Appiah's Paradox of Identity*

Faculty Mentor: Dr. Verena Erlenbusch-Anderson, Philosophy

## NOTES: