

31ST NATIONAL CONFERENCE ON UNDERGRADUATE RESEARCH

# CONFERENCE PROGRAM



THE UNIVERSITY OF  
**MEMPHIS**®

APRIL 6-8, 2017

[www.cur.org/ncur\\_2017](http://www.cur.org/ncur_2017)

**NCUR**<sup>®</sup>  
NATIONAL CONFERENCE ON  
UNDERGRADUATE RESEARCH **2017**



THE UNIVERSITY OF  
**MEMPHIS**®





# **WELCOME TO THE UNIVERSITY OF MEMPHIS**

***Home of the Most Comprehensive Graduate School in  
the Mid-South and the FedEx Institute of Technology***



With more than 120 graduate programs serving 3,000 master's students and 1,000 PhD students, the Graduate School's location within the FedEx Institute of Technology offers the perfect partnership for anyone interested in the UofM's interdisciplinary research infrastructure and innovation capabilities.

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## **FOR MORE INFORMATION:**

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*Be sure to check out the Graduate School Information Expo April 6-7.*

# Table of Contents

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<b>SCHEDULE OF EVENTS</b>	<b>2</b>	<b>SESSIONS</b>
		Faculty Administrator Network Sessions <b>36</b>
		Performing Arts Sessions <b>38</b>
<b>SPONSORS</b>	<b>4</b>	Visual Arts Sessions <b>40</b>
		Oral Sessions <b>43</b>
		Poster Sessions <b>140</b>
<b>WELCOME LETTERS</b>		
University of Memphis	<b>5</b>	
Council on Undergraduate Research	<b>6</b>	<b>INDEX</b>
NCUR Oversight Committee	<b>7</b>	By Institution <b>238</b>
		By Presenter <b>247</b>
		By Subject <b>266</b>
<b>NCUR PROCEEDINGS</b>	<b>8</b>	
<b>ACKNOWLEDGMENTS</b>	<b>9</b>	<b>NOTES</b> <b>268</b>
<b>PLENARY SPEAKERS</b>	<b>14</b>	<b>CAMPUS MAP</b>
		<b>Back Cover</b>
<b>GENERAL INFORMATION</b>	<b>20</b>	
<b>EVENTS</b>		
Graduate School Information Expo	<b>24</b>	
Departmental Open Houses	<b>26</b>	
Special Interest Sessions	<b>32</b>	
<b>TICKETED EVENTS</b>		
Memphis Means Music	<b>34</b>	
Excursions	<b>35</b>	

# Schedule of Events - NCUR 2017

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## Wednesday, April 5, 2017

**4:00 pm - 8:00 pm**

### **CONFERENCE REGISTRATION**

FedEx Institute of Technology - Lobby

## Thursday, April 6, 2017

**7:00 am - 4:00 pm**

### **CONFERENCE REGISTRATION**

FedEx Institute of Technology - Lobby

**7:00 am - 9:00 am**

### **BREAKFAST**

Elma Roane Fieldhouse, Student Plaza, Tiger Den

**9:30 am - 10:45 am**

### **OPENING PLENARY: FREDERICK W. SMITH**

Michael D. Rose Theatre

**12:00 pm - 2:00 pm**

### **LUNCH**

Elma Roane Fieldhouse, Student Plaza, Tiger Den

**12:00 pm - 5:00 pm**

### **Graduate School Information EXPO**

University Center – 3rd Floor

**11:00 am - 12:00 pm**

### **SESSION 1: Oral/Visual/Performing Arts/Posters**

Various Locations

**12:20 pm - 1:20 pm**

### **SESSION 2: Oral/Visual/Performing Arts/Posters**

Various Locations

**12:20 pm - 1:20 pm**

### **Faculty And Administrator Network SESSION A**

Fogelman Classroom Building

**1:40pm - 2:40 pm SESSION 3: Oral/Visual/Performing Arts/Posters**

Various Locations

**1:40 pm -3:40 pm**

### **Fast Pitch Competition**

Crews Center for Entrepreneurship

**3:00 pm - 4:00 pm**

### **SESSION 4: Oral/Visual/Performing Arts/Posters**

Various Locations

**4:00 pm - 6:00 pm**

### **Gallery Exhibition Opening**

The Martha and Robert Fogelman Galleries of Contemporary Art – Art and Communication Building, Rooms 230 and 240

**4:00 pm - 6:00 pm**

### **UofM Departmental Open Houses**

Various Locations

## Friday, April 7, 2017

**7:00 am - 4:00 pm**

### **CONFERENCE REGISTRATION**

**7:00 am - 9:00 am**

### **BREAKFAST**

Elma Roane Fieldhouse, Student Plaza, Tiger Den

**8:00 am - 9:00 am**

### **Faculty and Administrator Network SESSION B**

Fogelman Classroom Building

**9:00 am - 10:00 am**

### **SESSION 5: Oral/Visual/Performing Arts/Poster Presentations**

Various Locations

# Schedule of Events - NCUR 2017

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**10:30 am - 11:45 pm**

**PLENARY: SANTOSH KUMAR**

Michael D. Rose Theatre

**12:00 pm - 2:00 pm**

**LUNCH**

Elma Roane Fieldhouse, Student Plaza, Tiger Den

**12:00 pm - 5:00 pm**

**Graduate School Information EXPO**

University Center – 3rd Floor

**12:00 pm - 1:00 pm**

**SESSION 6: Oral/Visual/Performing Arts/  
Poster Presentations**

Various Locations

**1:20 pm - 2:20 pm**

**SESSION 7: Oral/Visual/Performing Arts/  
Poster Presentations**

Various Locations

**2:40 pm - 3:40 pm**

**SESSION 8: Oral/Visual/Performing Arts/  
Posters Presentations**

Various Locations

**4:00 pm - 5:00 pm**

**SESSION 9: Oral/Visual/Performing Arts/  
Poster Presentations**

Various Locations

**4:30pm - 5:30 pm**

**NCUR Oversight Committee Reception**

Atrium in the Administration Building

**5:30 pm - 7:30 pm**

**Memphis Means Music!**

Student Plaza

**Saturday, April 8, 2017**

**7:00 am - 9:00 am**

**CONFERENCE REGISTRATION**

**7:00 am - 9:00 am**

**LUGGAGE DROP OFF AND STORAGE**

FedEx Institute of Technology (102)

**7:00 am - 9:00 am**

**BREAKFAST**

Elma Roane Fieldhouse, Student Plaza, Tiger Den

**8:00 am - 9:00 am**

**Faculty and Administrator Network**

**SESSION C**

Fogelman Classroom Building

**8:00 am - 9:00 am**

**SESSION 10: Oral/Visual/Performing  
Arts/Poster Presentations**

Various Locations

**9:20 am - 10:20 am**

**SESSION 11: Oral/Visual/Performing  
Arts/Poster Presentations**

Various Locations

**10:45 am - 12:00 pm**

**CLOSING PLENARY: Terri Lee Freeman,  
Daphene R. McFerren**

Michael D. Rose Theatre

**12:00 pm - 1:30 pm**

**LUNCH**

Elma Roane Fieldhouse, Student Plaza, Tiger Den

**1:30 pm - 5:00 pm**

**AFTERNOON EXCURSIONS**

National Civil Rights Museum; STAX and Sun Studio; Graceland

## NCUR 2017 Sponsors

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# Welcome from University of Memphis

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Welcome to the 2017 National Conference on Undergraduate Research (NCUR) at the University of Memphis. As an urban metropolitan research university, we celebrate undergraduate research as an integral part of our educational mission. For this reason, we are excited to collaborate with the Council of Undergraduate Research in presenting the largest national showcase for research and creative activities performed by undergraduate students across all fields of study.

It's a pleasure to welcome more than 4,000 students, faculty mentors and administrators to our campus and community to recognize and promote undergraduate student achievement. Providing undergraduates with the opportunity to engage in scholarly research is important to students' professional development, so I applaud all the faculty mentors for providing an exceptional learning experience for their students. You do, indeed, make a difference in the lives of these students as they prepare to take the next step on the pathway to a career and a commitment to lifelong learning. To the student presenters, I offer my congratulations for the impressive research and your selection to participate in NCUR 2017.

While you are here, I invite you to experience all that our University and community offers. I hope you have the opportunity to explore and enjoy our city. Memphis has a rich history and exciting cultural tapestry. Memphis boasts the National Civil Rights Museum, a large collection of art, a rich musical heritage and a friendly atmosphere—not to mention the world's best barbecue. I encourage you to make the time to experience the history, entertainment and the "soul" of our city for which we are proud.

Congratulations and best wishes to all of the students participating in NCUR 2017. You will find our campus and our city to be a welcoming environment in which to share your research and creative works, and you will see why, at the University of Memphis, we are "driven by doing."

M. David Rudd  
President, University of Memphis



# Welcome from the Council on Undergraduate Research

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Greetings,

The Council on Undergraduate Research (CUR) is pleased and honored to congratulate the more than 4,000 undergraduate researchers, faculty mentors and other supporters of undergraduate research achievement who are participating in the 31st National Conference on Undergraduate Research (NCUR). Hosted by the vibrant and diverse University of Memphis (UofM), and located in a region of the United States renowned for its arts, culture, and hospitality traditions, the 31st NCUR promises to be an exuberant celebration of scholarship in its varied expressions. As an NCUR 2017 participant, you are part of a long cherished tradition, one that annually celebrates and commemorates outstanding research, scholarship, and creative inquiry undertaken by undergraduate students and their faculty mentors.



"Driven by Doing" is the resonant title for this year's NCUR, and it also speaks to CUR's energetic growth and commitment to providing valued services and programs to its more than 11,000 members at 900 affiliated colleges, universities, and associations. If you are not yet familiar with all that CUR has to offer, we invite you to learn more about our organization (<http://www.cur.org>). We particularly encourage all undergraduate students interested in progressing to graduate study to sign up for CUR's registry.

As attendees have found with past NCURs, I predict that NCUR 2017 will be an incredibly powerful, moving and highly memorable experience for all participants. It is with sincere gratitude that CUR thanks UofM and the greater Memphis business community for hosting this year's conference, and for rolling out a warm and inclusive welcome to all involved.

Elizabeth Ambos,  
CUR Executive Officer  
Washington, D.C.

Dear NCUR 2017 Participants,

With NCUR, the Council on Undergraduate Research invites you into a community of scholars and we are thrilled you have chosen to participate. CUR is pleased to have worked with University of Memphis to put on what will surely be an amazing conference. We hope that you find the atmosphere to be one of support and collaboration, but also one that will challenge you intellectually and make you a better scholar.



For many of us, NCUR is one of the few conferences where we get beyond our own discipline and truly learn how other areas of study generate knowledge, investigate problems, and create. Take advantage of this multidisciplinary experience and attend presentations in disciplines different from your own. And while you are here, attend professional development workshops, visit the graduate school fair, and make meaningful connections with fellow NCUR participants. I urge you to make the most of the great networking opportunities that NCUR provides by getting to know the presenters in your session, sharing a meal with someone you haven't met before, and participating in the events the University of Memphis has organized for you.

Enjoy your time in Memphis, and have a great conference.

Susan Larson  
President, Council on Undergraduate Research  
Professor of Psychology/Division Chair of Sciences and Mathematics,  
Concordia College, Moorhead MN

# Welcome from the NCUR Oversight Committee

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Dear NCUR 2017 Participants,

On behalf of the Council on Undergraduate Research's NCUR Oversight Committee, I'm glad to welcome you to the 31st National Conference for Undergraduate Research at the University of Memphis. We're delighted to be working with this exciting institution and in this great city. We hope that your participation will be both memorable and rewarding.

NCUR has many goals, but they come together every spring in this event whose intellectual content and energy you are providing. Our purpose here is simply to celebrate and learn from your work: the research, scholarship, and creative work of undergraduates and their faculty mentors from across the nation and around the world. At the conference you'll have the opportunity to join in an extraordinary interdisciplinary conversation with your fellow researchers, in your own field and in other intellectual communities. I urge you to grasp it fully, not only in your presentation or poster sessions, but in the creatively informal conversations and social connections that are the essential fabric of NCUR. Share your research and ideas; listen to and engage those of others; consider extending the conversation by publishing your work in the NCUR 2017 Proceedings.



I want to thank our hosts, the organizers at the University of Memphis, for whom this conference has been a long (four years!) and arduous labor of love. Now we'll enjoy the results for the next two and a half days. Make the most of them.

John Swift  
Chair, NCUR Oversight Committee  
Professor of English, Occidental College

The idea for a national conference open to all undergraduates was conceived and first implemented at the University of North Carolina at Asheville (UNCA) in 1987. The first conference drew more than 400 participants from schools across the country. Now in existence for 30 years, the conference has become the leading conference for undergraduate research, hosting 3,500-4,000 students and their faculty mentors each year. One of the only conferences of its kind within the world, it provides students and faculty mentors from all disciplines the ability to present their research through posters, oral presentations, visual arts and performances. The conference is hosted at a different university across the U.S. each year. Opportunities to learn from exciting keynote speakers, interact with representatives from more than 100 graduate schools, and participate in excursions and other activities sponsored by the host site have become the hallmarks of this student research conference.



# **NCUR Proceedings**

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## **Conference Proceedings**

One benefit of presenting at NCUR is the opportunity for students to publish their work in the conference proceedings, produced annually by the University of North Carolina at Asheville and distributed to institutions across the nation. All student presenters at the conference (including students in the performing/visual arts) are invited to submit manuscripts for review by the Proceedings board.

Submitting work to the Proceedings has many advantages, two of which are deemed especially important:

- The opportunity to receive comments from faculty outside your college or university, thereby enhancing the paper for submission to other sources in your field.
- The opportunity to list your publication on your resume for graduate and professional school applications.

The Proceedings are published annually as a service of UNC Asheville, and the included papers are representative of the research presented at the conference. **Publication release date for 2017 is November 30, 2017.**

Published papers from 2012, 2013 and 2014 can be viewed at **[www.ncurproceedings.org](http://www.ncurproceedings.org)**

### **Paper Submission Dates and Fee Schedule**

Electronic Paper submission: January 14, 2017 – June 15, 2017

NO papers will be accepted after June 15, 2017.

There are no fees for processing your paper.

### **Submission Guidelines**

Send an email with your intent to submit a paper to ncureditorialstaff@unca.edu and you will receive a username and pin with instructions on how to upload your paper to the [www.ncurproceedings.org](http://www.ncurproceedings.org) site. Your username and pin will be different from the abstract username and pin submission.

### **Contact**

#### **NCUR Proceedings**

ncureditorialstaff@unca.edu

UNC Asheville

308 Owen Hall, CPO 1810 One University Heights, Asheville, NC 28804

# Acknowledgments

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## NCUR 2017 Team

The University of Memphis extends deep appreciation to the numerous UofM faculty, staff, and student volunteers who contributed their time and effort to ensure a successful conference.

### NCUR 2017 Planning Team

**Chairpersons:** Richard Irwin, Vice Provost for Academic Innovation  
Melinda Jones, Director, Helen Hardin Honors Program

#### Committee Members

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Richard Lou

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##### Memphis Means Music

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Graduate School  
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School of Communication Sciences and Disorders  
School of Health Studies  
School of Public Health  
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#### Special Thanks To:

M. David Rudd, President,  
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University of Memphis  
Frederick W. Smith, CEO of FedEx  
Terri Lee Freeman, President,  
National Civil Rights Museum  
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Scott Bassford, North Apps LLC  
NCUR Oversight Committee (NOC)  
Mark Harvey, Chair, NCUR 2016

# Acknowledgments

---

## Abstract Coordinators

Thank you to the following individuals for coordinating the abstract review process in their colleges and schools:

Jill Dapremont	Marian Levy	Abby Parrill
Russell Deaton	Brooks Lloyd	Terra Smith
Naomi Eichorn	Lorraine Meiners-Lovel	Deborah Tollefson
Cody Havard	Cathy Meredith	
Roger Kreuz	Janet Page	

## Abstract Review Team

Many thanks to the following individuals for reviewing more than 4,000 abstracts submitted from students throughout the United States and several countries:

Adel Abdelnaby	Stephan Blatti	Minxi Cheng	Susan Elswick
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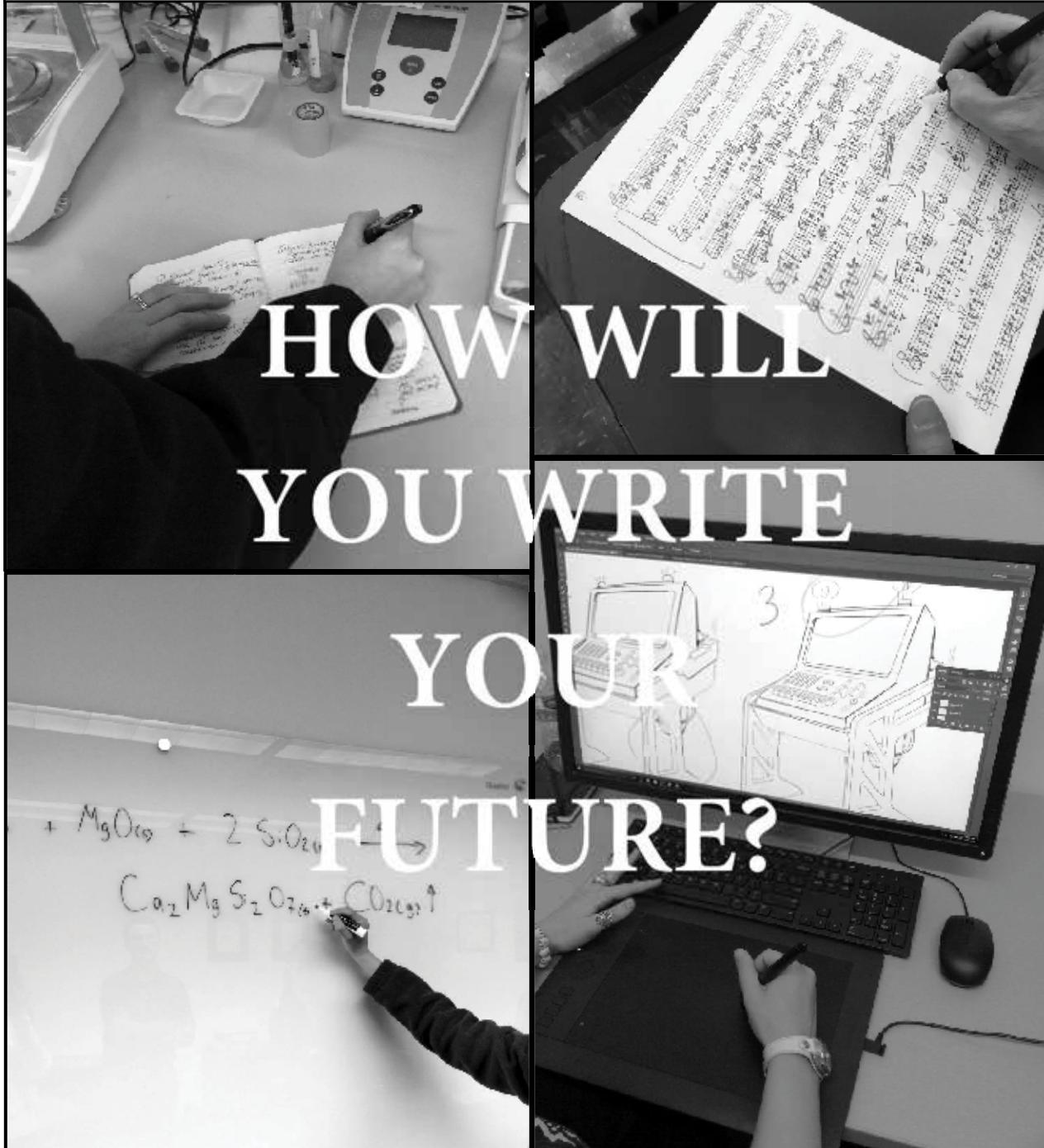


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[UAH.EDU/GRADUATE](http://UAH.EDU/GRADUATE)

A black and white photograph of the University of Alabama in Huntsville campus. In the foreground, several people are standing on a grassy field. In the background, there are modern brick buildings, including a large dormitory-style building and some smaller structures. A single white balloon is visible in the sky above the buildings.



- An **R1 University** with over **9,000** graduate students, representing **33%** of university enrollment
- Ranked **2nd** among the top 150 universities under 50 years of age by *Times Higher Education*
- **88 graduate programs** across eight schools (57 master's & 31 doctoral degrees)
- Ranked **33rd** among “**Best Value**” public colleges by *Kiplinger's Personal Finance*

# **Plenary Speakers**

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## **Frederick W. Smith**

**Chairman and CEO, FedEx Corporation**

**Thursday, April 6**

**9:30 – 10:45 am**

**Michael D. Rose Theatre**

Born in 1944 in Marks, Miss., Frederick W. Smith, Yale College graduate 1966, is the founder and CEO of FedEx Corporation. The original analyses about the logistic needs of a highly automated future society were done during his tenure as an undergraduate.

After four years of service in the Marines, including two tours of duty in Vietnam, he launched the original air-ground Federal Express network, which began operations in 1973 to serve the rapidly growing high tech/high value added sectors of the economy Smith had predicted. The company has since grown into a \$58 billion\* global enterprise.

Smith is responsible for providing strategic direction for all FedEx operating companies: FedEx Services (including FedEx Office), FedEx Express, FedEx Ground and FedEx Freight. FedEx serves more than 220 countries and territories with operations that include approximately 650 aircraft and 150,000 vehicles. More than 400,000 team members worldwide currently handle more than 12 million shipments each business day.

FedEx has been widely acknowledged for its commitment to total quality service. FedEx Express was the first service company to win the Malcolm Baldrige National Quality Award in 1990. FedEx has consistently been ranked on *FORTUNE* magazine's industry lists, including "World's Most Admired Companies," "100 Best Companies to Work For," and is on *FORTUNE*'s "Blue Ribbon Companies List."

Smith is co-chair of the Energy Security Leadership Council, a Trustee for the United States Council for International Business, and a member of both the Business Council and Business Roundtable. He served as chairman of the U.S.-China Business Council and co-chair of the French-American Business Council. Smith has served on the boards of several large public companies – Malone and Hyde (AutoZone), First Tennessee, Holiday Inns, EW Scripps and General Mills – and charitable organizations including St. Jude Children's Research Hospital and the Mayo Foundation. He was formerly chairman of the Board of Governors for the International Air Transport Association and chaired the executive committee of the U.S. Air Transport Association.

Smith has received several honorary degrees and numerous civic, academic and business awards including the Global Leadership Award from the U.S.-India Business Council; the George C. Marshall Foundation Award; the Wright Brothers Memorial Trophy; and the Circle of Honor Award from the Congressional Medal of Honor Foundation. In addition, Smith is a member of the Aviation Hall of Fame and the Business Hall of Fame. He served as co-chairman of both the U.S. World War II Memorial project and the campaign for the National Museum of the Marine Corps. He has been named a top CEO by both *BARRON'S* and *CHIEF EXECUTIVE* magazine.



\*Based on December 2016 data.

## **Plenary Speakers**

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### **Santosh Kumar**

**Friday, April 7**

**10:30 am – 12:00 pm**

**Michael D. Rose Theatre**

Santosh Kumar is a professor of Computer Science at the University of Memphis, where he holds the Lillian & Morrie Moss Chair of Excellence. His research focuses on mobile health (or mHealth). He and his students have developed computational models to infer human health and behavior such as stress, conversation, smoking, craving and cocaine use from wearable sensor data. He leads several large multidisciplinary projects in mHealth funded by both National Institutes of Health (NIH) and National Science Foundation (NSF). He currently leads federally-funded national Center of Excellence on Mobile Sensor Data-to-Knowledge (MD2K) that involves over 20 scientists in computing, engineering, behavioral science and medicine from 12 universities. He was named one of America's ten most brilliant scientists under the age of 38 by Popular Science in 2010. In 2013, he was invited to speak at the White House on the future of biosensors. In 2015, he was invited by NSF to speak about his career to aspiring investigators in smart health as a role model scientist. In 2015, he was named Tennessee's first chair of excellence in Computer Science.



## **Plenary Speakers**

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### **Terri Lee Freeman and Daphene R. McFerren**

**Saturday, April 8**  
**10:30 am - 12:00 pm**  
**Michael D. Rose Theatre**

**Terri Lee Freeman** was appointed president of the National Civil Rights Museum in November 2014. As president, Freeman is responsible for providing strategic leadership in furthering the museum's mission as an educational and cultural institution.

For 18 years, Ms. Freeman served as president of the Community Foundation for the National Capital Region, the largest funder of nonprofit organizations in the Washington, D.C., metropolitan area. In that position, she distinguished herself for her community building, her role in creating community consensus, her leadership on critical issues to improve quality of life, and her record of increasing the Community Foundation's assets from \$52 million to more than \$350 million. She has a record of using her skills and experience to bridge differences between diverse people and finding common ground for the future, as reflected in a number of awards and her board leadership and membership with important nonprofit organizations in the nation's capital.



Prior to the Community Foundation, Ms. Freeman was founding executive director of the Freddie Mac Foundation, one of the five largest corporate foundations in the metropolitan Washington region.

A graduate of the 2016 class of Leadership Memphis, Ms. Freeman has serves on several boards. She is a member of the Boards of the Community Foundation for Greater Memphis, the New Memphis Institute, and the Memphis Visitors' and Convention Bureau. She also serves as a member of the Tennessee Educational Equity Coalition Steering Committee.

Freeman received her bachelor's degree in journalism/communication arts from the University of Dayton and her master's degree in organizational communications from Howard University. She is married to Dr. Bowyer G. Freeman and is the proud mother of three daughters.

## Plenary Speakers

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**Daphene R. McFerren** is the executive director of the Benjamin L. Hooks Institute for Social Change. McFerren manages the Hooks Institute's strategic planning; program creation and implementation; local and national fundraising efforts; and work on behalf of the Hooks Institute staff, faculty and contractors. McFerren is responsible for creating budgets for Hooks Institute programs and monitoring program expenses to ensure that financial targets are met. She is the primary media contact for the Hooks Institute and has made numerous television and radio appearances to promote its work.

Under her leadership, the Hooks Institute has increased its focus on innovative ways to promote civil discourse on civil and human rights, and on implementation of impactful community service programs. As director of the Hooks Institute, McFerren has chaired national conferences on civil and human rights issues. Under McFerren's leadership the Hooks Institute has created websites on civil rights featuring state-of-the-art technology such as Geographic Information Systems (GIS). McFerren was the executive producer of the film *Duty of the Hour*, a film about the life of Dr. Benjamin L. Hooks. She is also the executive producer, director, and narrator of the award-winning documentary short, *The Civil Rights Movement: A Cultural Revolution*, winner of the Silver and Bronze Annual Telly Awards (36th Annual Competition, 2015); *The People's Telly* (2015) and *The Best Shorts Competition* (Award of Merit, 2015). In fall 2016, McFerren taught a Helen Hardin Honors Program course, on Civil and Human Rights today that focused on how the Civil Rights Movement of the 1950s and 1960s continues to shape movements today, including the Black Lives Matter Movement, and human rights movements both in the United States and abroad. McFerren was a 1995 National Endowment for the Humanities Summer Research Award recipient. Prior to joining the Hooks Institute, McFerren litigated complex civil litigation matters in private practice and with the U.S. Department of Justice. She is also a former federal prosecutor and secured convictions in human trafficking cases of national and international interest. From 1999 to 2001, McFerren served as counsel to the Honorable Janet Reno, attorney general of the United States.





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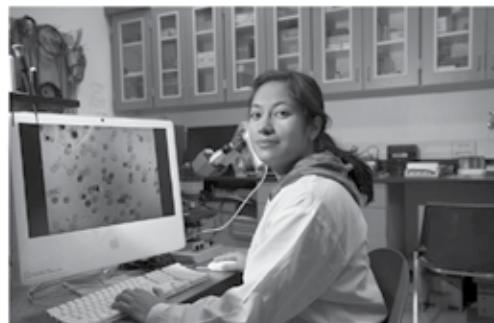
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208-425-2844

[Biomolecularphd@boisestate.edu](mailto:Biomolecularphd@boisestate.edu)  
[Biomolecularsciences.boisestate.edu](http://Biomolecularsciences.boisestate.edu)



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- Development of treatments for diseases as well as preventative measures such as vaccines
- Research and development of innovative devices and methodologies in biomolecular sciences



# General Information

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## About the University of Memphis

The University of Memphis is a learner-centered metropolitan research university committed to excellence in all undergraduate, graduate and professional education. The University is divided into 11 academic colleges and schools; offers bachelor's degrees in more than 50 majors and 70 concentrations, master's degrees in 55 subjects and doctoral degrees in 23 disciplines, in addition to the juris doctor and a specialist degree in education. The University has 25 Chairs of Excellence, more than any other Tennessee university, and five state-approved Centers of Excellence.

The University of Memphis serves a highly diverse student body of 21,301 students including 17,176 undergraduates and 4,125 graduate, doctoral and professional students. The University is noted for its high minority enrollments (36 percent of our students are African-American) and has one of the nation's highest graduation rates for African-Americans among historically white universities.

Memphis, the largest city on the Mississippi River, is known as the "Home of the Blues" and the "Birthplace of Rock 'n' Roll." The 2017 NCUR logo features the bridge that spans the Mississippi River and the microphone honors Memphis' rich contributions to popular music. The sunburst in the logo is inspired by Sun Studio, where some of the earliest practitioners of blues and rock 'n' roll, such as B.B. King and Elvis Presley, got their start in Memphis.



### NCUR Conference App

Download the Guidebook app to your iPhone or Android. Find the NCUR 2017 guide, and you will have the most up-to-date schedule for conference presentations and events. The app allows you to search presentations, create your own schedule, and much more.

### Assistance and Information

Information tables are staffed throughout the conference and are in the following locations:

UC – University Center Information Desk

FIT – Lobby Kiosk

RTH – Rose Theatre Lobby

FH – Elma Roane Fieldhouse

### Campus Volunteers

NCUR volunteers, wearing bright royal blue T-shirts, are located throughout the campus to help you with any questions you may have.

### NCUR 2017 T-Shirts

NCUR 2017 T-shirts that were purchased during the online registration process will be available for pickup at the conference registration site in the FedEx Institute of Technology. T-shirts can be purchased on-site from the same location.

### ATMs

An ATM is located by Dunkin Donuts on the first floor of the University Center, and on the second floor of the V. Lane Rawlins Service Court (above the Bookstore).

## **Copy Services**

Tiger Copy & Graphics is located on the second floor of the Rawlins Service Court (above the Bookstore). Office hours are Monday through Friday, 8:00 am to 4:30 pm.

## **Wireless Internet Access**

Wireless network service is available in all campus buildings, but coverage may be limited during large meetings. Please refrain from using personal hot-spots or Wi-Fi tethering as these degrade the experience for everyone.

To connect:

- View available wireless networks.
- Select **NCUR** on the list.
- No password is needed.

## **Dining Services**

All registrations, pre-paid or on-site, include breakfast and lunch with vegetarian and gluten-free options. Three dining locations are available on campus for NCUR attendees: the Elma Roane Fieldhouse, the Tiger Den and an outdoor venue on the Student Plaza (in front of the Michael D. Rose Theatre).

Complimentary continental breakfast is available at each of these locations from 7:00 am to 9:00 am on Thursday, Friday and Saturday.

Lunch is also served at each location from 12:00 pm to 2:00 pm. You must be a registered attendee and show your NCUR badge/name tag for each breakfast and lunch.

The University of Memphis has several dining locations if you are craving something different than what is offered for the complimentary meals:

- University Center Food Court (1<sup>st</sup> floor)
- Cyber Café (FedEx Institute of Technology)
- Roar Shack (Psychology Building)
- Jones Hall Food Court
- Starbucks (Bookstore)
- Einstein's Bagels (McWherter Library)
- Subway (Art and Communication Building)
- Fred & Ethel's (Theatre Building)
- Café Fresca (Patterson Hall)

## **First Aid/Medical Emergencies**

For medical and mental health emergencies on or off campus, dial 911 immediately. Calling 911 from a campus phone connects you immediately with University Police. Calling 911 from your cell phone connects you with the Shelby County 911 system. Provide as much information as you can about your location and the nature of emergencies.

Information for the closest urgent care facilities is provided below:

### **Baptist Minor Medical Center**

3295 Poplar Ave, Memphis TN 38111  
(901) 327-8188  
Hours: Mon-Fri, 8:00 am-7:30 pm;  
Sat-Sun, 8:00-2:00 pm  
*Distance from campus: 1.4 miles*

### **Walgreens Healthcare Clinic**

4680 Poplar Avenue  
(901) 683-2488  
Hours: Mon-Fri, 8:30 am – 6:30 pm;  
Sat-Sun, 9:00 am-4:30 pm  
*Distance from campus: 1.7 miles*

### **Baptist Memorial Hospital-Memphis**

6019 Walnut Grove Rd. Memphis, TN 38120  
(901) 226-5000  
Hours: 24 hours/7 days a week  
*Distance from campus: 4.9 miles*

### **St. Francis Hospital**

5959 Park Ave, Memphis TN 38119  
(901) 765-1000  
Hours: 24 hours/7 days a week  
*Distance from campus: 5.4 miles*

## **All-Gender and ADA-Accessible Restrooms on Campus**

ADA accessible, single-stall, all-gender restrooms are located in the following academic buildings:

- Fogelman College of Business, Administration Wing, fourth floor
- McCord Hall - first and second floors, west sides
- Elma Roane Fieldhouse - first floor, center N/S corridor
- Johnson Hall - main floor - Level 2
- Meeman Hall - first floor, south corridor

- Music Building - Main Floor, Level 2 (shared with dressing rooms) south corridor
- J.M. Smith Hall (Chemistry) - Main Floor, Level 2, near room 225
- Jones Hall - Main Floor, Level 2, near elevator
- Dunn Hall - Second Floor, east corridor near room 226

All-gender, single-stall restrooms (non-ADA accessible) are located in the following buildings:

- Manning 106
- McCord 207J
- Hudson Health 105

### **Lactation Rooms**

Designated lactation rooms are located in the following buildings:

- University Center 240
- Clement Hall 118
- Patterson Hall 124
- Hudson Health 109

### **Faculty/Administrator Lounge**

Faculty, staff, administrators and exhibitors are invited to enjoy complimentary refreshments in the Faculty Senate Chamber (Room 261) in the University Center from 8:00 am to 5:00 pm Thursday and Friday.

### **Transportation**

NCUR 2017 will provide complimentary shuttle service from all NCUR-designated hotels. If you are not staying at an NCUR-designated hotel, you may still ride the shuttle that picks up at the nearest conference hotel. Shuttle service is available during the following times:

#### **Thursday, April 6**

6:30 am – 10:30 am  
2:30 pm – 6:30 pm

#### **Friday, April 7**

6:30 am – 10:30 am  
2:30 pm – 6:30 pm

#### **Saturday, April 8**

6:30 am - 1:00 pm

Shuttle service is allocated based on the estimated number of registrants staying in hotel properties. The shuttles will run approximately every 30 minutes. Although specific pick-up and drop-off times cannot be provided, we urge attendees to ride the earliest shuttle possible to ensure a timely arrival on campus for the plenary sessions and/or presentation sessions.

### **Downtown Hotel Shuttle Routes**

**Duck Route (Yellow)** serves DoubleTree by Hilton-Downtown, Holiday Inn Downtown and Peabody Hotel. The Peabody Hotel is the central pick-up/drop-off location for this route.

**Elvis Route (Purple)** serves Crowne Plaza Memphis-Downtown and the Sheraton Memphis-Downtown. The Sheraton is the central pick-up/drop-off location for this route.

**Beale Route (Gray)** serves Best Western Gen X Inn, Comfort Inn Downtown, Courtyard-Downtown, Sleep Inn Suites at Court Square, SpringHill Suites, and The Westin Memphis Beale Street. The Sleep Inn & Suites is a central pick-up/drop-off location for this route; The Westin will have its own pick-up/drop-off point.

### **East Memphis Hotel Shuttle Routes**

**BBQ Route (Red)** serves Hilton Memphis East.

**Shelby Route (Green)** serves Homewood Suites-Poplar, Four Points by Sheraton, and Memphis Marriott East. The Four Points will be the central pick-up/drop-off location; Marriott East will have its own pick-up/drop-off point.

**Tiger Route (Blue)** serves Courtyard-Park, DoubleTree by Hilton-East, Hampton Inn, Embassy Suites, and Hampton Inn-Shady Grove. The Hampton-Inn Shady Grove will serve as the pick-up/drop-off point for Embassy Suites; all other hotels will have its own pick-up/drop-off point.

### **South Memphis Shuttle Routes**

**River Route (Pink)** serves Quality Suites-Thousand Oaks and Crown Plaza Memphis East. Both hotels will have its own pick-up/drop-off point.

## **Excursion Shuttle Service**

Pick-up/drop-off for excursions is along Central Avenue. Volunteers will be available to direct attendees to appropriate shuttles. Individuals will be shuttled back to their hotels shortly after returning to the UofM campus.

**Shuttles will leave promptly at scheduled times.**

## **Parking**

Parking is very limited so please use the shuttle service provided to and from the NCUR hotels. If you are not staying at a hotel with a shuttle, please review the following parking options:

### **Cars**

Attendees who are driving cars to campus should park in the Southern lot directly across the street from the REC center. The street address is 620 Echles Street, Memphis, TN 38152.

### **Charter Bus Parking**

A remote parking lot is available for charter buses at the Park Avenue Campus Lot 63. The address is 950 Getwell Road, Memphis TN. The UofM's Blue Line will shuttle NCUR attendees to the main campus.

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## **School of Public Health Open House April 6 | 4-6 p.m. | Rose Theatre**

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School of Public Health

# **Events**

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## **Graduate School Information Expo**

**Thursday and Friday, April 6 & 7, 12:00 pm – 5:00 pm  
University Center, 3<sup>rd</sup> Floor**

Explore more than 100 graduate and professional school opportunities with the U.S. and internationally. Representatives will be available to talk with prospective students about higher education opportunities.

**The Graduate School Information Expo participants are:**

- |  |  |
|--|--|
| Adelphi University   | Freed-Hardeman University  |
| American University School of Public Affairs                                   | Harvard Graduate School of Arts & Sciences                                 |
| Arcadia University College of Global Studies                                   | Illinois University Human Development and Family Studies                   |
| Arizona State University-Nursing Program                                       | Iliff School of Theology   |
| Auburn University Graduate School  | Indiana University School of Medicine Biomedical Science Graduate Programs |
| Bay Path University  | Institute of International Education Gilman Scholarship Program            |
| Bethel University Physician Assistant Program                                  | Institute of Technology at University of Washington Tacoma                 |
| Binghamton University-State University of New York,<br>The Graduate School     | Jacksonville University  |
| Boise State University   | Journal of Student Research  |
| Colorado State University, Department of Ecosystem<br>Science & Sustainability | Journal of Young Investigators   |
| Cumberland University  | Kansas City University of Medicine and Biosciences                         |
| David Eccles School of Business at the University of Utah                      | Marian University College of Osteopathic Medicine                          |
| Des Moines University  | Marquette University Graduate School                                       |
| Drexel University  | Mercer Law School  |
| Duquesne University  | Midwest Journal of Undergraduate Research                                  |
| Eastern Washington University  | Mississippi State University, The Graduate School                          |
| Embry-Riddle Aeronautical University   | Missouri State University  |
| Emory University Laney Graduate School   | Missouri University College of Engineering                                 |
| Emory University-Candler School of Theology                                    | n + I Engineering Institutes   |
| Emporia State University Graduate School                                       | New York University Tandon School of Engineering                           |
| Florida International University   |  |

- North Dakota State University
- NSF Graduate Research Fellowship Program
- Old Dominion University
- Penn State College of Medicine
- Purdue University The Graduate School
- Rensselaer Polytechnic Institute
- Rosalind Franklin University of Graduate & Postdoctoral Studies
- Saint Louis University
- Savannah College of Art and Design
- Sigma Xi
- Southern Illinois University Graduate School
- St. Jude Children's Research Hospital Graduate School of Biomedical Sciences
- Student Opportunity Center
- Temple Graduate School
- Texas Tech University Graduate School
- Texas University Health Sciences Center Graduate School of Biomedical Sciences
- The University of Alabama Graduate School
- The University of Alabama Manderson Graduate School of Business
- The University of Iowa
- The University of Mississippi School of Pharmacy
- The University of Tennessee Health Science Center
- The University of Texas at San Antonio
- Tuskegee University College of Veterinary Medicine Graduate Public Health
- University of Georgia School of Social Work
- University of Alabama at Birmingham
- University of Alabama at Huntsville
- University of Arizona
- University of Arkansas Clinton School of Public Service
- University of Central Florida
- University of Chicago
- University of Cincinnati
- University of Idaho
- University of Illinois at Chicago
- University of Kentucky
- University of Kentucky School of Information Science
- University of Maryland School of Medicine
- University of Memphis
- University of Miami Marine and Atmospheric Sciences
- University of Minnesota
- University of North Carolina-Charlotte
- University of North Texas
- University of Pittsburgh School of Health and Rehabilitation Sciences
- University of Pittsburgh School of Nursing
- University of Rochester
- University of Tennessee Program for Excellence & Equity in Research
- University of Texas at Arlington
- University of Texas at Dallas
- University of West Florida
- University of Wisconsin-Milwaukee
- University of Texas – Dallas
- Van Andel Institute Graduate School
- Washington University-Division of Biology & Biomedical Sciences
- Wayne State University
- West Virginia University
- Worcester Polytechnic Institute
- Xavier University School of Medicine

# Events

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## Departmental Open Houses

**Thursday, April 6, 4:00 - 6:00 pm**

### **Department of Anthropology 324 Manning Hall, Ethnographic Research Lab**

All NCUR participants are invited to a Department of Anthropology Open House on April 6 from 4-6 pm in Manning 324. Join us for refreshments and learn about our graduate program, which is rated among the nation's premier master's programs in applied anthropology. Our award winning faculty prepares students to engage with real world issues in the U.S. and worldwide in relation to community development, community health, cultural identity and heritage, environmental sustainability, and many other areas. We also offer a concentration in medical anthropology, which addresses health risks and disparities and improves wellbeing in diverse populations. We are partners with the School of Public Health on dual MA MPH degrees, and with Interdisciplinary Studies on a graduate certificate in museum studies. We feature intensive mentoring and our graduates enjoy exceptional success in securing rewarding employment and/or admission for post-MA studies.

### **Department of Biology Lobby, Ellington Hall**

The 30 faculty members in the Department of Biological Sciences have diverse research interests that span molecular, cellular and developmental biology, ecology, evolution, and behavior. Currently 53 graduate students are enrolled; most are PhD students, but the department also hosts thesis and non-thesis MS students. The Department of Biological Sciences features facilities well-equipped for cutting-edge research in laboratory and field biology, as well as areas of genomics and bioinformatics. Major departmental resources include the Feinstone Center for Genomic Research, the Ecological Research Center, the Integrated Microscopy Center, and the Meeman Biological Station. The Department of Biological Sciences is also home to the director and several faculty involved in the University

of Memphis Program in Bioinformatics. The department will offer laboratory and facilities tours, discussion sessions with professors and current graduate students, and poster and brief oral presentations of current research. Tour groups will form at the Ellington Bldg. lobby ([map https://umwa.memphis.edu/campusmap/index.php](https://umwa.memphis.edu/campusmap/index.php)), where refreshments will be served and biology subdiscipline discussion groups will take place. The size of tour groups will be limited, so early signup is encouraged. Please contact Zachary Ramsey for tour information [zramsey@memphis.edu](mailto:zramsey@memphis.edu).

### **Fogelman College of Business and Economics Atrium, FCBE**

The faculty and students in the Fogelman College of Business and Economics at The University of Memphis welcome all NCUR participants interested in accounting, economics, finance, information systems, management, marketing and supply chain management to join us for a reception. FCBE offers five different MBA programs. We offer two full time MBA programs – the unique Customer Driven MBA program and International MBA program. We also offer two part-time MBA programs – the Professional MBA program and Online MBA program. Further, we offer an Executive MBA program. We also offer four specialized master's programs in Accounting, Economics, Business and Information Technology and Finance. FCBE also offers a doctoral degree in each functional area of business. You are also invited to visit our state-of-the-art Cook Analytics and Trading Lab as well as the Customer NeuroInsights Research Lab.

### **College of Communication and Fine Arts Atrium, Art & Communication Building (across from the Holiday Inn)**

Creativity never goes out of style. Neither does intelligence, and at the College of Communication and Fine Arts, you'll be surrounded by both. With the city of Memphis as a backdrop, we are educating tomorrow's creative professionals. Music, theatre, art, dance, architecture and communication arts are more alive in Memphis than in some cities double our size. In both expected and unexpected ways, you will interact with other big idea people in both real-world and academic

settings. Here there is a genuine spirit of cooperation in a down-to-earth environment that gives you the freedom to be you. Faculty members who are gifted in the humanities, social sciences, fine and performing arts, architecture and design and communication arts and sciences will inspire you. We are driven to help you create, be bold, be different and to stretch your thinking and yourself.

## **Department of Computer Science**

### **Rose Theatre Lobby**

The Department of Computer Science provides excellent programs at all levels of study, and its faculty and students seek to excel in research and applications in fields where computation is of significant importance.

We prepare students who can make a difference in a rapidly changing world. In addition to traditional bachelor's, master's and doctoral degrees in computer science, we offer graduate certificates in Cyber Security and Information Assurance and Data Science, and we support an interdisciplinary degree in Bioinformatics (through the College of Arts and Sciences). Our programs build on solid foundations and on laboratory experiences to provide our graduates with a stimulating combination of knowledge and effective computing skills that enable them to become effective problem solvers.

## **Department of Counseling, Educational Psychology & Research**

### **Ball Hall**

Please join the Department of Counseling, Educational Psychology and Research for an open house reception in Ball Hall and find out how you can turn your passion for helping others in to a rewarding career! The CEPR department offers six master's degrees: Clinical Mental Health Counseling, School Counseling, Rehabilitation Counseling, Clinical Rehabilitation Counseling, Educational Psychology, and Educational Research, four doctoral programs: Counseling (EdD), Counseling Psychology (PhD), Educational Psychology (PhD), and Educational Research (PhD), as well as four graduate certificates: College and Career Counseling, Disability Studies, Qualitative Research, and Quantitative Research. Graduates of our department go on to become university teachers, counselors, psychologists, program evaluators, and researchers in educational and counseling environments. All of the Counseling/

Counseling Psychology programs are accredited by their national organizations (CACREP, CORE, & APA). Join faculty and students at this open house to learn more about how you can improve the lives of others through graduate study in the CEPR department. There will be signs in Ball Hall directing you to the room for our open house.

## **Herff College of Engineering**

### **Atrium, Engineering Administration Building**

The Herff College of Engineering invites NCUR participants to an open house in the atrium of the Engineering Administration Building. The Herff College offers bachelor, master's, and doctorate degrees in Biomedical, Civil, Computer, Electrical, and Mechanical engineering. In addition, it offers bachelor and master's degrees in Engineering Technology. With funding from industry, local government, the National Science Foundation, National Institutes of Health, and Department of Defense, research in the college is exciting and significant. Some of the areas are tissue engineering, biomedical systems and imaging, medical devices, water resources, transportation engineering, earthquake engineering, intelligent systems, drone technology, nanotechnology and additive manufacturing. Come meet our faculty and students, and let's continue the engineering research conversation.

## **Department of History**

### **147 Mitchell Hall, History Educational Resource Center**

The Department of History invites all NCUR participants to an open house at the History Educational Resource Center in Mitchell 147. Please join us for light refreshments and conversations with faculty and students. The Department of History offers one of the signature graduate programs in the College of Arts and Sciences, providing exceptional training and optimistic prospect for future success. Members of the history faculty are recognized at the highest levels of the profession for innovative methodologies, exhaustive research, and insightful writing. The department offers both an MA and PhD in History, with five major focus areas: African-American and Southern History; Egyptology; Modern European History; Global History; and Women, Gender and Family History. Graduate students benefit from regular interaction with faculty both in the classroom and through the daily life of the department; they participate in seminars and colloquia,

present papers at professional conferences, and publish articles and reviews in historical journals. Many of our students join the Graduate History Association (GHA), the Graduate Association for African-American History (GAAAH), and/or Phi Alpha Theta (PAT).

## **Department of Instruction & Curriculum Leadership**

### **4th floor, Ball Hall**

Are you excited about making a positive impact in the lives of both children and adults? Does working as an educator across a wide range of environments interest you? If so, please join the Department of Instruction and Curriculum Leadership (ICL) for an open house in Ball Hall. The ICL Department houses a range of programs that provide students with the knowledge and skills necessary to successfully work as educators and practitioners in education, business, health care, military and social assistance fields to name a few. Our programs include Early Childhood Education, Elementary Education, Instruction and Curriculum, Instructional Design and Technology, Reading Education, School Library Specialization, Secondary Education, Special Education and Applied Behavior Analysis. Come join us to learn more about our programs and all we have to offer.

## **Instructional Design and Technology (IDT)**

### **320 Ball Hall, IDT Studio**

Do you want to design, develop, and evaluate effective learning in corporate, medical, government, non-profit, and educational environments? If your answer is, YES!, visit the IDT Studio in 320 Ball Hall during the Open House on April 6 from 4-6 pm to learn about the Instructional Design and Technology (IDT) certificates (Educational Technology and Design & Development) and graduate programs (M.S. and EdD in Instructional Design and Technology). **All are offered completely online.** Our internationally recognized faculty prepare students as highly skilled designers of instruction; scholar-practitioners who solve instructional and performance problems; and stewards who partner with others to innovate the learning process and use instruction and technology to improve lives, locally and globally. All students are provided with individualized mentorship, and graduates enjoy rewarding career options.

All NCUR participants are invited to enjoy refreshments while learning more about the degree and certificate opportunities and IDT resources. Current and former students will also be there to showcase their work and meet potential students. Tours of the studio will be offered. Touring the sound booth, video booth, Design & Development labs, and more is not to be missed.

## **Institute for Intelligent Systems**

### **4th floor, FedEx Institute of Technology**

All NCUR participants are invited to meet with faculty and students in the Institute for Intelligent Systems (IIS). The IIS offers an undergraduate minor and graduate certificate in Cognitive Science, the interdisciplinary study of the mind. Our research focuses on intelligent systems broadly defined, including human, animal, and machine intelligence. Undergraduate students are welcome in our research labs and work closely with graduate students and faculty on research projects.

## **Cecil C. Humphreys School of Law & Department of Political Science**

### **1 North Street (Shuttle service provided between campus locations)**

The Cecil C. Humphreys School of Law and the Department of Political Science invite you to a reception at the Law School in the heart of downtown Memphis. The University of Memphis offers a JD through the Law School, an MA in Political Science and a Dual JD/MA degree offered by the School of Law and the Department of Political Science. Faculty will be there to explain their programs and to discuss research opportunities.

The School of Law is located in the historic former US Customs House, Court House, and Post Office in the heart of the legal, business, and cultural district that is downtown Memphis. The beautiful state-of-the-art building offers a magnificent view of the Mississippi River and is within blocks of numerous law offices and both state and federal courthouses. This location gives students unparalleled opportunities for experiential learning and easy access to cultural attractions. Memphis Law students consistently praise the law school's quality of life, due in large part to the impressive building aesthetics, sense of community, location, classroom facilities, social life, and library staff. These benefits are paired with a solid, practice-focused

education. Memphis Law traditionally has a high bar-passage rate, a solid job placement rate for graduates, and has been nationally recognized for its facility and as a *preLaw Magazine* Best Value Law School, an honor that considers not only bar passage and employment rates, but financial factors of student debt, tuition and cost of living.

Memphis Law brings together unique individuals with a wide variety of cultural, geographic, employment, and academic backgrounds. Many of its students come to law school immediately after finishing their undergraduate education; however, a significant number have been in the workforce or have completed advanced degrees. The school recognizes that diversity within the student body enriches the classroom experience for all students and enhances the overall quality of the educational program, and therefore, strives to ensure that both traditional and non-traditional students have an opportunity to succeed.

## **School of Health Studies Roane Fieldhouse, Room 172**

Please join faculty from the School of Health Studies (SHS) for refreshments and to learn more about our outstanding graduate programs ([www.memphis.edu/shs](http://www.memphis.edu/shs)). Laboratory tours will also be provided. The SHS is home to close to 30 full-time faculty members, many of whom are world-renowned in their respective discipline. Six graduate programs are housed within the SHS, including: Clinical Nutrition; Environmental Nutrition; Nutrition Science; Exercise, Sport and Movement Sciences; Health Promotion; and Physical Activity Teacher Education. Within and outside of the SHS, facilities are available to support cell culture studies, pre-clinical animal investigations (including fly, rodent and pig models), and human clinical investigations. Graduate students work side-by-side with faculty in a mentorship relationship, allowing for knowledge and skills to be developed, while relationships are built. In addition to our graduate programs and research facilities, two centers are housed within the SHS: The [Center for Nutraceutical and Dietary Supplement Research](#) and The [Sport Performance and Health Consulting Center \(SPAHC\)](#). Graduate assistantships are available to highly qualified students. Visit with us to learn how you can become a graduate student in one of our programs beginning in fall 2017.

## **School of Public Health**

### **Rose Theatre Lobby**

Passionate about making the world a better place? Interested in preventing disease and improving population health? Come meet the faculty and students of the School of Public Health. All NCUR participants are cordially invited to a reception to experience our nationally (CEPH) accredited School of Public Health. We offer two Master's degrees: A Master of Public Health (MPH) and a Master of Health Administration (MHA). The MPA is awarded in five concentration areas (Biostatistics, Epidemiology, Environmental Health, Health Systems and Policy, and Social/Behavioral Sciences) and may be completed in as little as one year for highly prepared students planning to enter medical school. Other options include the online MPH, JD/MPH and MSW/MPH. Our second master's program (Master in Health Administration) is nationally ranked and is the only CAHME-accredited MHA program in the state. The School of Public Health also offers certificates in Population Health and in Health Analytics, as well as three Doctoral degrees in Social and Behavioral Sciences, Epidemiology, and Health Systems and Policy. Please join us to learn how you can make a world of difference through graduate study in Public Health.

## **Department of Sociology 203 Clement Hall**

Please join us for light refreshments and conversations with faculty and current graduate students. You will also have the opportunity to learn more about our program. The Department of Sociology offers graduate studies leading to the master of arts in sociology. In addition to solid training in sociological theory and social research methods, the program offers a wide selection of courses in many substantive areas such as race, class and gender studies, globalization and development, social change, family, deviance, social psychology, religion, and medical sociology. Many of our students are awarded full-time or part-time graduate assistantships to support their studies and students in the program receive intensive mentoring that contributes to their future success in doctoral studies and in their careers. We look forward to meeting you!

## **School of Urban Affairs and Public Policy**

### **2nd Floor, McCord Hall**

All NCUR participants are invited to meet with faculty and students in the School of Urban Affairs and Public Policy (SUAPP) in the McCord Hall second floor conference room. SUAPP is home to graduate programs in **Public and Nonprofit Administration, City and Regional Planning, Criminology and Criminal Justice** and **Social Work**. SUAPP supports the synthesis of diverse perspectives, theoretical foundations, and research approaches required to understand and address the complex issues of metropolitan areas, while building *capacity* to address those challenges through *education and community partnerships*. SUAPP works foster more efficient, equitable, sustainable, safe and prosperous communities.

## **Serving the City: Community-Engaged Scholarship at the University of Memphis**

### **1st Floor, Jones Hall, Department of Architecture Gallery**

Meet with members of the UofM Engaged Scholarship Committee – a multidisciplinary group of faculty from departments across the University who support and practice engaged research and learning principles. Engaged Scholarship is built upon reciprocal relationships between universities and communities. It requires that educators and students venture beyond the halls of academia to connect with residents and community stakeholders, all of whom play an equally integral role in the Engaged Scholarship process. Learn about how UofM students and faculty are serving, learning, and partnering to make our city a better place.

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*Papers & Publications (P&P)* is a regional, peer-reviewed journal of undergraduate research, promoting student learning by disseminating undergraduate research and creative works that make an intellectual or creative contribution to the discipline or to applied practice. This journal is published annually by the Center of Undergraduate Research and Creative Activities (CURCA) at the University of North Georgia with support by the UNG Libraries.

### Submission Guidelines

Students may submit original critical or creative works that have been presented at a conference, showcase, or capstone course. Submissions are welcome from students affiliated with colleges and universities in the southeastern United States, including Alabama, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, and Virginia. The work may not be printed or under consideration by other publications.

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#1

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# **Events**

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## **Special Interest Sessions for Faculty and Administrators**

### **Building a Student Ambassador Program**

**Thursday, April 6, 4:00 – 5:00 pm  
FedEx Institute of Technology, Fishbowl  
(Rooms 203/205)**

The CUR Student Programs Task Force is laying the groundwork to pilot a new national student advocacy and leadership program. Task force members will use this session to gather input from faculty and directors to shape the direction and content of this program. We will also use this time to share models of campus-level student ambassador programs and best practices for state capitol undergraduate research outreach events (state versions of Posters on the Hill). After a pilot phase, we hope that the proposed national CUR Student Ambassadors Program (CURSAP) will be a new signature student program!

### **Developing a Mentoring Network for Effective Classroom Teaching Practices Involving Student Research**

**Thursday, April 6, 4:00 – 5:00 pm  
FedEx Institute of Technology, Room 226**

The undergraduate science education community has responded to the recommendations of the American Association for the Advancement of Science (AAAS) Vision and Change document with several initiatives designed to improve the way in which undergraduates learn science. These initiatives have often taken the form of one-time workshops that generate awareness of and interest in active learning techniques among participants. However, they have been less successful with respect to generating the sustainable change necessary to bring real reform to undergraduate science education. To create sustainable change, long-term faculty development initiatives focused on mentorship are needed so that instructors seasoned in active learning can convey their experiences to mentees interested in using these pedagogical techniques as

the centerpiece of their own teaching. CUR is well-positioned to be a leader in providing current and future instructors with the training necessary to effectively bring authentic research into their classrooms. In this session, we will discuss the efforts of other professional societies like The American Society for Cell Biology (ASCB) to develop a mentorship network for the spread of best practices in teaching and how CUR can adapt this model to become a leader in the development and spread of instructors equipped to utilize course-based research experiences (CUREs) in their teaching.

## **Special Interest Session for Faculty and Students**

### **Health Sciences Division Networking Event**

**Thursday, April 6, 4:00 – 5:00 pm  
FedEx Institute of Technology, Room 226**

## **Special Interest Sessions for Students**

### **Students: Advocating for Undergraduate Research**

**Thursday, 12:30 – 1:30 pm  
FedEx Institute of Technology, Fishbowl  
(Rooms 203/205)**

Do you love undergraduate research? Are you a leader? Are you looking for opportunities to promote undergraduate research on your campus to increase resources for students? This session will provide suggestions and models for advocacy efforts that you can use when you return from NCUR. This session will also be used to inform about the work of a CUR Student Programs Task Force planning to launch a new national student ambassador program.

## **Students: Panel Discussion with American Physiology Society (APS) Professionals**

**Thursday, 12:30 – 1:30 pm**

**FedEx Institute of Technology, Room 226**

The developmental, physiological and neurological fields of biology are making grounds-breaking discoveries at a rapid pace. Because these fields are interdisciplinary in nature, students from a variety of backgrounds can contribute to these fields – ethicists, computer scientists, mathematicians and historians – to name a just a few. In this session, you will hear from individuals in these fields talk about their educational pathways and hear their recommendations for undergraduate students thinking of pursuing a career in this area.

## **Students: Creating Your Personal Brand**

**Friday, 1:00 – 2:00 pm**

**FedEx Institute of Technology, Fishbowl (Rooms 203/205)**

**Presenter: Dr. Justin Lawhead, UofM Associate Vice President for Student Affairs/ Dean of Students**

In today's employment marketplace, it's tough to stand out. Good grades and lots of extracurricular activities won't guarantee that you'll land the job of your dreams, or even attain an interview. There are many qualified candidates out there. You need a strategy to impress recruiters with new unique in person and online. You need to establish personal marketing processes that clearly represents your value. It starts with building your personal brand. Creating your brand starts with you answering these questions:

What are your unique strengths, skills and attributes?

What do you want to be known for?

What will make you stand out in the eyes of potential employers?

The presenter will guide attendees through brand development by presenting strategies and tactics to discover your unique strengths, skills and talents. Students will also explore guidelines to project a positive professional presence, strategies to build your

network in person and online and steps to developing a professional online presence on LinkedIn.

## **Students: Developing your Elevator Speech, Networking Abilities, and Interviewing Skills**

**Friday, 2:00 – 3:00 pm**

**FedEx Institute of Technology, Room 226**

**Presenters: Clay A. Woemmel, UofM Associate Director of Career Services;**

**Alisha Rose Henderson, UofM Director of Career Services**

In this interactive workshop, students will develop a personal elevator speech following tips shared by the presenters. Students, in pairs, will practice their networking skills by introducing themselves and presenting their elevator speech to each other. Students will also learn techniques for answering frequently-asked behavioral interview questions and will have the opportunity to practice their answers and receive feedback.

## Ticketed Events

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### MEMPHIS MEANS MUSIC

**Friday, April 8, 5:30 pm**

**Student Plaza (next to the fountain) on the UofM campus**

**\$10, includes dinner, entertainment and transportation to hotel**

Music fans know Memphis as the “Home of the Blues” and the “Birthplace of Rock ‘n’ Roll.” Barbecue aficionados know that nothing quite compares to Memphis barbecue. Experience both the Memphis music and food scene with a barbecue buffet and concert featuring Sound Fuzion, the contemporary student music ensemble from the University of Memphis. Sound Fuzion includes nine singers, a five-piece rhythm section, two audio engineers, and a performance and marketing/media coordinator. Their repertoire includes all forms of contemporary music, including current and classic pop, rock, country and R&B.

The evening’s lineup will also feature a few of the many talented student artists who write and play their own music.



# Ticketed Events

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## EXCURSIONS

According to *Billboard Magazine*, Memphis is mentioned in more songs than any other city in the world. One visit to Memphis, and you will know why! But there's more to Memphis than its music—Memphis is also an iconic destination for the civil rights movement. NCUR attendees have three choices for an excursion in the afternoon on Saturday, April 8, from 1:30 - 4:30 pm: the National Civil Rights Museum, Elvis' Graceland, and the STAX Museum and Sun Studio.

All costs include entrance fees and transportation. Tickets can be purchased on-site at the conference registration site in the FedEx Institute of Technology.

### National Civil Rights Museum (\$25)

Visit the site of the Lorraine Motel where Dr. Martin Luther King Jr. was assassinated on April 4, 1968. The museum features multi-media and interactive exhibits that chronicle the civil rights movement from the 17<sup>th</sup> century to the present, and also includes Room 306, the hotel room Dr. King was staying in at the time of his death. Next, visit the museum's Legacy Building (the boarding house from where the assassin's shot was allegedly fired) to learn more about the case against James Earl Ray, and the ensuing conspiracy theories.



### Graceland Tour (\$70)

Put on your Blue Suede shoes and pay homage to the King of Rock 'n' Roll at Graceland, the sprawling white-columned mansion situated on a 13-acre estate that Elvis called home from 1956 to 1977. See the home's over-the-top decor and view the infamous Jungle Room, along with the music room, TV room, living room, and parents' bedroom. The Archives Experience will allow you to see rare artifacts, such as Elvis' costumes, photographs, documents and film clips. The final stop is in the Meditation Garden where Elvis and his family members have been laid to rest. This tour also includes Elvis' automobiles and airplanes.



### Tour 3: Memphis Means Music Tour (STAX Museum and Sun Studio) (\$30)



Come to Soulsville, USA to experience the home of soul music and the place where Rufus Thomas, Otis Redding, Isaac Hayes and others cut groundbreaking records. The museum tour takes visitors through exhibits highlighting the roots of soul, STAX beginnings, and several recording studios. You'll also have the opportunity to behold Isaac Hayes' glittering custom Cadillac Eldorado which is fully equipped with unique amenities like a television, 24-carat gold exterior and white fur carpeting. Finally, we invite you to "shake what your mama gave you" on the Express Yourself dance floor.

Then it is on to Sun Studio. Sam Phillips opened Sun Studio in 1950 and launched the careers of Elvis Presley, Johnny Cash, Jerry Lee Lewis, B.B. King, Roy Orbison, and many others. There's a saying at Sun Studio: "If music was a religion, then Memphis would be Jerusalem and Sun Studio its most holy shrine." Visit Sun Studio to find out why.



## **Faculty Administrator Network (FAN Sessions)**

### **FAN Oral Session A - Thu 12:20pm-1:20pm**

#### **Fogelman Classroom Building 262**

**12:20-1:20 p.m.**

*A Crowd Sourcing-Funding Platform for Leveraging*

*Value of Undergraduate Research*

Michael Zelin, Arkansas State University

#### **FOGELMAN CLASSROOM BUILDING 360**

**12:20-1:20 p.m.**

*Curricular Integration Through Incrementalism: The Slow Growth and Eventual Institutional Success of Westminster College's Undergraduate Research and Arts Celebration*

Timothy Cuff, Westminster College

#### **FOGELMAN CLASSROOM BUILDING 365**

**12:20-1:20 p.m.**

*Supporting Underrepresented Students and Ensuring Equitable Access to Undergraduate Research*

Jenny Shanahan, Bridgewater State University

#### **FOGELMAN CLASSROOM BUILDING 370**

**12:20-1:20 p.m.**

*Making Research Authentic: Data Collection in an Undergrad Special Education Program*

Kymberly Harris, Georgia Southern University

### **FAN Oral Session B -**

**Fri 8:00am-9:00am**

#### **FOGELMAN CLASSROOM BUILDING 261**

**8:00-9:00 a.m.**

*Research, Retention, and Millennials: Use of Social Media Marketing in Engaging Underrepresented Minority Millennials in Undergraduate Research Initiatives*

Erin Lynch-Alexander, Austin PEAY State University

#### **FOGELMAN CLASSROOM BUILDING 262**

**8:00-9:00 a.m.**

*Community-Based Participatory Research: Innovative Research Collaboration Between City Government Leaders and Students of Architecture and Planning to Inform and Facilitate Critical Policymaking*

Jimmie Tucker, University of Memphis

#### **FOGELMAN CLASSROOM BUILDING 263**

**8:00-9:00 a.m.**

*Adoption and Implementation of a Robust Approach to Evaluating Intensive Undergraduate Research Programs: Update on the EvaluateUR Project*

Elizabeth Ambos, Council on Undergraduate Research

#### **FOGELMAN CLASSROOM BUILDING 360**

**8:00-9:00 a.m.**

*Different Disciplinary Strategies of Engaging Student in Undergraduate Research*

Kevin Ayers, Radford University

#### **FOGELMAN CLASSROOM BUILDING 365**

**8:00-9:00 a.m.**

*Envisioning, Implementing, and Assessing a Required Undergraduate Research Program in Biology*

Jennifer Thomas, Belmont University

### **FAN Oral Session C -**

**Sat 8:00am-9:00am**

#### **FOGELMAN CLASSROOM BUILDING 261**

**8:00-9:00 a.m.**

*Launching a Summer Research Program for Incoming Freshmen: Research Scholars at Western Carolina University*

April , Western Carolina University

#### **FOGELMAN CLASSROOM BUILDING 262**

**8:00-9:00 a.m.**

*Methods for Blending Research and Curriculum to Enhance Student Learning*

Jonathan Gallimore, Embry-Riddle Aeronautical University

## **Faculty Administrator Network (FAN Sessions)**

### **FOGELMAN CLASSROOM BUILDING 263**

**8:00-9:00 a.m.**

*Integrating Research into the Curriculum: Creating*

*Opportunities for Students' Signature Work*

Hasitha Mahabaduge, Georgia College and State

University

### **FOGELMAN CLASSROOM BUILDING 360**

**8:00-9:00 a.m.**

*On An Honors Undergraduate Research Course, A Link*

*with Capstone Design Experience*

Amar Khoukhi, Zayed University

### **FOGELMAN CLASSROOM BUILDING 365**

**8:00-9:00 a.m.**

*Science Outreach as Service Learning to Improve*

*Diversity and Inclusion*

K Karnas, Cedar Crest College

### **FOGELMAN CLASSROOM BUILDING 370**

**8:00-9:00 a.m.**

*Uncovering Innovative Partnerships for Undergraduate*

*Research*

Karla Lassonde, Minnesota State University, Mankato

### **FOGELMAN CLASSROOM BUILDING 381**

**8:00-9:00 a.m.**

*Community College Undergraduate Research Initiative*

*(CCURI): Building Success Through CUREs and*

*Collaborations*

Heather Bock, Finger Lakes Community College

## Student Performing Arts Sessions

### Student Performing Arts Session 1 - Thu 11:00am-12:00pm

#### COMMUNICATION AND FINE ARTS 124

##### Dance Choreography and Performance

**11:20-11:40 a.m.**

*Anxiety: Mental Illness and Contemporary Dance Performance*  
Bailey Burns, University of Central Oklahoma

**11:40 a.m.-12:00 p.m.**

*Behind Closed Doors*  
Laura Cook, California University of Pennsylvania

#### MUSIC BUILDING HCH

##### Music

**11:00-11:20 a.m.**

*Transformation of the Nightingale: Two Interpretations of Milton Babbitt's Philomel*  
Konrad Malinowski, Elmhurst College

##### Music Performance

**11:40 a.m.-12:00 p.m.**

*Decoding the Analytical Envelope of Alan Theisen's "Sonata No. 2"*  
Andrew Hutchens, Western Carolina University

### Student Performing Arts Session 2 - Thu 12:20pm-1:20pm

#### COMMUNICATION AND FINE ARTS 124

##### Dance Choreography and Performance

**12:20-12:40 p.m.**

*By Sharing Nothing We Reveal Everything*  
Deveny Miles, Luther College

**12:40-1:00 p.m.**

*Can Trio A Be Perceived as a Meaningful and Performative Dance?*  
Kelly Dawson, Luther College

#### MUSIC BUILDING HCH

##### Music Performance

**12:20-12:40 p.m.**

*Elvis and I*  
Kayla Grimm, California University of Pennsylvania

**12:40-1:00 p.m.**

*Prelude and Fugue for Saxophone Quartet*  
Tanner Cassidy, North Central College

##### Music

**1:00 -1:20 p.m.**

*Modern Music Composition Influenced by Works of Schubert and Rachmaninoff*  
Nina Simone Edwards, University of Tennessee at Chattanooga

### Student Performing Arts Session 3 - Thu 1:40pm-2:40pm

#### COMMUNICATION AND FINE ARTS 124

##### Dance Choreography and Performance

**1:40-2:00 p.m.**

*Outsourcing Movement*  
Mia Martelli, State University of New York-Brockport

**2:00-2:20 p.m.**

*Takara's Baby: Captivity and Personality Disorders Through Dance Inquiry*  
Rebekah Wallace, University of Central Oklahoma

#### MUSIC BUILDING HCH

##### Music Performance

**1:40-2:00 p.m.**

*Two Bicycles*  
Chris Prather, University of Central Oklahoma

**2:00-2:20 p.m.**

*Violin Concerto and Chamber Music of Haydn and Mozart*  
Calvin Cheung, State University of New York-Oswego

## Student Performing Arts Sessions

### Music

#### 2:20-2:40 p.m.

*Perceptual Thresholds as a Framework for Rhythm: the Music of Steve Lehman*  
Konrad Malinowski, Elmhurst College

### Student Performing Arts Session 4 - Thu 3:00pm-4:00pm

### COMMUNICATION AND FINE ARTS 124

#### Theatre/Drama

#### 3:00-3:20 p.m.

*The New Lens of Normality: An Exploration of Queer Representation in Fairytales.*  
Dylan Carter, Kennesaw State University

#### 3:20-3:40 p.m.

*Far from Normal*  
Jesus Martinez, North Central College

### MUSIC BUILDING HCH

#### Music

#### 3:00-3:20 p.m.

*An Analysis of Wagnerian Leitmotifs*  
Andrew Byrd, Appalachian State University

#### 3:20-3:40 p.m.

*Music Composition Through Genetic Sequencing*  
Emily Fishel, Eastern Washington University

### Student Performing Arts Session 7 - Fri 1:20pm-2:20pm

### COMMUNICATION AND FINE ARTS 124

#### Dance History and Theory

#### 1:40-2:00 p.m.

*The (Hi)stories of African American Improv Traditions*  
Bryanna Bradley, Massachusetts College of Liberal Arts

#### Dance Choreography and Performance

#### 2:00-2:20 p.m.

*The Hum Project*  
Simon Phillips, Kennesaw State University

### Student Performing Arts Session 8 - Fri 2:40pm-3:40pm

### COMMUNICATION AND FINE ARTS 124

#### Theatre/Drama Performance

#### 3:00-3:20 p.m.

*Authenticity, Empathy, and the "Reality of Doing" in Love & Information*  
Olivia Wells, University of Central Oklahoma

### Student Performing Arts Session 9 - Fri 4:00pm-5:00pm

### COMMUNICATION AND FINE ARTS 124

#### Theatre/Drama Performance

#### 4:00-4:20 p.m.

*No More: A Physical Exploration of Gender and Sexuality in Political Theatre*  
Gabrielle Glidewell, University of Central Oklahoma

#### 4:20-4:40 p.m.

*Our Orphan Train*  
Elisabeth Markman, University of Wisconsin - Milwaukee

#### 4:40-5:00 p.m.

*Signs and Wonders: A Docudrama*  
Joseph McGuire, University of Memphis

## Student Visual Arts Sessions

### Student Visual Arts Exhibit Session 5 - Fri 9:00am-10:00am

#### ART AND COMMUNICATION 310

##### Visual Arts

**9:20-9:40 a.m.**

*One Hundred Eighty Degrees*  
Marissa Wallace, Westmoreland County Community College

#### ART AND COMMUNICATION 314

##### Visual Arts

**9:00-9:20 a.m.**

*Exploring Modern Sterility Through Cast Multiples*  
Nicole Webb, Kennesaw State University

**9:20-9:40 a.m.**

*Generations of Influence*  
Adam Lose, Jacksonville University

**9:40-10:00 a.m.**

*Illustrating Medicine*  
Grace Sacher, University of Wisconsin - River Falls

#### ART AND COMMUNICATION 317

##### Visual Arts

**9:00-9:20 a.m.**

*The Turner Project*  
Hannah Jacobs, Hope College

**9:20-9:40 a.m.**

*Two Houses, Two Homes: A Visual Exploration of the Stories of Children of Separated Parents*  
Sara Louie, Macaulay Honors College at CUNY

**9:40-10:00 a.m.**

*Violence as a Tool of Social Control Explored Through Methods of Experimental Animation*  
Jacob Jones, University of Central Oklahoma

### Student Visual Arts Exhibit Session 6 - Fri 12:00pm-1:00pm

#### ART AND COMMUNICATION 247

##### Visual Arts

**12:40-1:00 p.m.**

*"Exploring Hmong Patterns Through Chasing and Repoussé on Silver"*  
Ger Xiong, University of Wisconsin - Whitewater

#### ART AND COMMUNICATION 314

##### Visual Arts

**12:00-12:20 p.m.**

*Tracing Autism*  
Vidushi Sinha, University of Alabama at Birmingham

**12:20-12:40 p.m.**

*ITALY: The Imagination Awakened*  
Gabrielle Sapata, Xavier University

**12:40-1:00 p.m.**

*Mirriors and Lights*  
Trudy Goff, University of Memphis

#### ART AND COMMUNICATION 317

##### Visual Arts

**12:00-12:20 p.m.**

*ProjectSex*  
Colin Hang Ren, Colgate University

**12:40-1:00 p.m.**

*A Virtual Resurrection of the Queen Anne's Revenge*  
Lilibeth Roman, William Peace University

## Student Visual Arts Sessions

### Student Visual Arts Exhibit Session 7 - Fri 1:20pm-2:20pm

#### ART AND COMMUNICATION 247

##### Visual Arts

**1:20-1:40 p.m.**

*(Un)Natural Selection*

Lydia Reagan, Xavier University

**1:40-2:00 p.m.**

*3D Imaging and Micro Expressions*

Zachary Machado, University of Central Florida

**2:00-2:20 p.m.**

*A Creative Response to Milton Becerra*

Mary Avery, Capital University

#### ART AND COMMUNICATION 314

##### Visual Arts

**1:40-2:00 p.m.**

*One Size Fits All*

Kris Pfister, Colgate University

**2:00-2:20 p.m.**

*Outcry: Mixed Media Works Examining Gendered Offenses*

Hannah Smith, Xavier University

#### ART AND COMMUNICATION 317

##### Visual Arts

**1:20-1:40 p.m.**

*Genius Overlooked: A Biographical Documentary on Tom Chromeck*

Maria Coughanour, Westmoreland County Community College

**1:40-2:00 p.m.**

*The Impact of Vlogging on Modern Web Based Media*

Alexander Parmley, University of Kentucky

**2:00-2:20 p.m.**

*Witch Without A Wand*

Andrew Burgess, Eastern Washington University

### Student Visual Arts Exhibit Session

### 8 - Fri 2:40pm-3:40pm

#### ART AND COMMUNICATION 247

##### Visual Arts

**2:40-3:00 p.m.**

*A Perspective Through Light*

Stephanie Curry, University of Memphis

**3:00-3:20 p.m.**

*A Visual Palimpsest: Object Memories Through Hybrid-Identity*

Pauline Shongov, Cornell University

**3:20-3:40 p.m.**

*Applications of 3D Printing in Art*

Giovanna Diaz Fabiani, North Central College

#### ART AND COMMUNICATION 314

##### Visual Arts

**2:40-3:00 p.m.**

*Photographs as Memory: A Multimedia Investigation of Alzheimers Disease*

Tess Cramer, Utah State University

## Student Visual Arts Sessions

### **3:00-3:20 p.m.**

*Portraits of Unknown*

Will Lopez, Black Hills State University

### **3:20-3:40 p.m.**

*Reference Points for Intimacy*

DaHee Son, University of Kentucky

## Student Visual Arts Exhibit Session

**9 - Fri 4:00pm-5:00pm**

### **ART AND COMMUNICATION 247**

#### **Visual Arts**

### **4:00-4:20 p.m.**

*Black Male*

Jarvis Boyland, University of Memphis

### **4:20-4:40 p.m.**

*Continuous Experimentation*

Robert Fairchild, University of Memphis

### **4:40-5:00 p.m.**

*Copy and Paste the American Dream*

Laura (LJ) Perry, University of Memphis

### **ART AND COMMUNICATION 314**

#### **Visual Arts**

### **4:20-4:40 p.m.**

*The Meaning of the Work of Art in the Age of*

*Mechanical Mastery*

Lilo Kuo, Macaulay Honors College at CUNY

### **4:40-5:00 p.m.**

*The Tri-universe: Society and Personal Identity as Told*

*Through Narrative Prints and Mixed Media Illustrations*

Clare Dunn, Xavier University

## Student Oral Session 1 - Thu 11:00am-12:00pm

### **Student Oral Session 1 - Thu 11:00am-12:00pm**

#### **ART AND COMMUNICATION 247**

##### **Music**

**11:00-11:20 a.m.**

*"Shahida:" The Cries of a Nation*

Lacie Gilliam, University of North Georgia

##### **Theatre/Drama**

**11:20-11:40 a.m.**

*The Octoroon: The Black, The White, and A Choice of Color*

Marcia Harvey, Kennesaw State University

#### **ART AND COMMUNICATION 257**

##### **Art History**

**11:00-11:20 a.m.**

*Constructing Community: the Performance Art of Laurie Anderson*

Chava Krivchenia, University of North Carolina - Asheville

**11:20-11:40 a.m.**

*"Befreit Euch Von Der Genitalpanik!": VALIE EXPORT and Feminist Actionism*

Jennifer Dally, Occidental College-

**11:40 a.m.-12:00 p.m.**

*Accessibility in Art Museums: Progress in Educational Programming*

Katherine Feldkamp, Truman State University

#### **ART AND COMMUNICATION 310**

##### **Art History**

**11:00-11:20 a.m.**

*The Glorious Muslim Time Machine: Fine Arts Progress in a Time of Nostalgia*

Quinn Westlake, Juniata College

**11:20-11:40 a.m.**

*The Jade Emperor: Identifying a Chinese Ceramic Sculpture*

Mackenzie Knight, Iowa State University

**11:40 a.m.-12:00 p.m.**

*The Mummy Portrait of Sarapon from Fayum*

Madeline Beck, Kennesaw State University

#### **ART AND COMMUNICATION 314**

##### **Theatre/Drama**

**11:00-11:20 a.m.**

*"Go Ahead And Free Yourself"*

DeShon Green, Kennesaw State University

**11:20-11:40 a.m.**

*"Round in Circles I'd Go": An Exploration of the Psychosocial and Metaphysical Ramifications of Rotation in Rodgers and Hammerstein's Carousel*

Samantha Tirrell, Russell Sage College

**11:40 a.m.-12:00 p.m.**

*Creating Dialogue About Sexual Education Through the Musical Spring Awakening*

Miranda Harris, North Central College

#### **COMMUNICATION AND FINE ARTS 124**

##### **Dance Choreography and Performance**

**11:00-11:20 a.m.**

*A-Town Quiver: An Ethnography on Contemporary Atlanta Dance*

Simone Stevens, Kennesaw State University

#### **DUNN HALL 103 / 105**

##### **African American Studies**

**11:00-11:20 a.m.**

*I'm Not a White Girl, So Don't Try to Make Me One*

Tierica Gibson, University of Memphis

**11:20-11:40 a.m.**

*Beyond Say: Water, Spirituality, and the Womanist Autoethnography in Beyoncé's Lemonade*

Aquila Campbell, Armstrong State University

**11:40 a.m.-12:00 p.m.**

*Case of the Lost Negro*

Jaidha Lindsay, University of Memphis

## Student Oral Session 1 - Thu 11:00am-12:00pm

### **DUNN HALL 107**

#### **Education**

**11:00-11:20 a.m.**

*Autism, Abstracted: Disease, Disorder, or Disability?*  
Laura Benasaraf, Macaulay Honors College at CUNY

### **DUNN HALL 109**

#### **Archeology**

**11:00-11:20 a.m.**

*Analysis of Prehistoric Tool-Stone Workability in Direct Relation to Different Tool Stone Treatment Processes*  
Robert Sinowetski, University of Memphis

**11:20-11:40 a.m.**

*Bring Out Your Dead: Spatial Orientation of Black Death Burials in Medieval Europe*  
Maggie Sullivan, University of Evansville

**11:40 a.m.-12:00 p.m.**

*Domestic Practices of Families on the American Frontier; Historic Material Analysis of Plum Island Lighthouse*  
Camille Warnacutt Warnacutt, Hamline University

### **DUNN HALL 119 / 121**

#### **Biochemistry**

**11:00-11:20 a.m.**

*Expanded KIX-CBP Domain Parameters and Investigation of Binding Characteristics*  
Melissa Penton, East Central University

**11:20-11:40 a.m.**

*Identification of Vaginal Bacterial Species That Are Mutually and Differentially Antagonistic with Strains of Candida albicans*  
Andrea Prenkocevic, Wayne State University

**11:40 a.m.-12:00 p.m.**

*Investigation of Product Dissociation Pathways for B. stearothermophilus DNA Polymerase I*  
Gene Cline, Truman State University

### **DUNN HALL 123/125**

#### **Biology**

**11:00-11:20 a.m.**

*Eastern Bluebird Fecal Sacs*  
Carmen Mesa, Guilford College

**11:20-11:40 a.m.**

*Effects of Hibernation on the Enteric Nervous System of Thirteen-lined Ground Squirrel Colon*  
Kathryn Thompson, University of Wisconsin - La Crosse

**11:40 a.m.-12:00 p.m.**

*Effects of Methylphenidate (Ritalin) on the Survival and Maturation of an in Vitro Model of Immature Human Neurons*  
Jessica Graham, Elon University

### **DUNN HALL 124**

#### **Cell & Molecular Biology**

**11:00-11:20 a.m.**

*Characterization of Luminal and Basal-like Breast Cancer Cells in Relation to BCL11A Genomic Editing*  
Alexis Corcoran, University of Northern Colorado

**11:20-11:40 a.m.**

*Effects of Cell Stress and Low Density Lipoprotein Concentration on the Localization of Amyloid Precursor Protein*  
Anna Tarren, Ithaca College

**11:40 a.m.-12:00 p.m.**

*A Pilot Study of Plasma Cell-free Mitochondrial DNA Copy Number as a Biomarker of Frailty in Hematopoietic Cell Transplantation*  
Erin Cassidy, University of Minnesota, Twin Cities

### **DUNN HALL 129**

#### **Cell & Molecular Biology**

**11:00-11:20 a.m.**

*Significance of the CUL3 Gene in the Metabolic Activity and Phenotype of HCT116 Colorectal Cancer Cells*  
Farhoud Golafshan, Hamline University, St. Paul

## Student Oral Session 1 - Thu 11:00am-12:00pm

### **11:20-11:40 a.m.**

*Targeting the Metabolism of Acute Lymphoblastic Leukemia in the Bone Marrow Microenvironment*  
Patrick Thomas, West Virginia University

### **11:40 a.m.-12:00 p.m.**

*Dissecting the Roles of PLA2-mediated Tubules and STARD4 in Intracellular Cholesterol Transport*  
Ambra Munlyn, Ithaca College

### **DUNN HALL 225 / 227**

#### **Chemistry**

### **11:00-11:20 a.m.**

*Determination of Microcystin-LR in Municipal Water Using HPLC-UV/Vis*  
Alyssa Melvin, Gannon University

### **11:20-11:40 a.m.**

*Effect of Hydroxylation on Anthocyanin-based Dye Sensitized Solar Cells*  
Jordan Wilson, University of Montevallo

### **11:40 a.m.-12:00 p.m.**

*Effects of Atmospheric Acid Reduction on Water Chemistry of Three Virginia Trout Streams*  
Kevin Pyszka, James Madison University

### **DUNN HALL 233**

#### **Mathematics**

### **11:00-11:20 a.m.**

*Anti-van Der Waerden Numbers on Grid Graphs*  
Hunter Rehm, University of Wisconsin - La Crosse

### **11:20-11:40 a.m.**

*Ordering and Self-Similarity in Non-Binary Trees*  
Nicholas Cleymaet, University of Nevada, Reno

### **11:40 a.m.-12:00 p.m.**

*Short Term Mean Reversion Through a Discrete Lens*  
Joseph Lim, Indiana University

### **DUNN HALL 249 / 251**

#### **Biology**

### **11:00-11:20 a.m.**

*Origin of the Invasive Boa Constrictor on St. Croix*  
Israel Golden, University of North Carolina - Asheville

### **11:20-11:40 a.m.**

*Pelvic Sexual Dimorphism in Modern Birds (Aves: Neornithes) and Its Evolutionary Relationship with Relative Egg Size*  
Kevin Surya, Montana State University Bozeman

### **11:40 a.m.-12:00 p.m.**

*Phenology and Reproduction of the Gynodioecious Flowering Plant, Silene acaulis*  
Lucas Piedrahita, Appalachian State University

### **DUNN HALL 351**

#### **Health Sciences**

### **11:00-11:20 a.m.**

*A Novel Gait Trainer Facilitates More Natural Walking Patterns in Adults 65 Years and Older*  
Courtney Kirkeide, St. Catherine University

### **11:20-11:40 a.m.**

*An Examination of the Differences in the Level of Dependency Between Dual and Conventional Tobacco Users Throughout Each Trimester of Pregnancy*  
Sara Assef, University of Kentucky

### **11:40 a.m.-12:00 p.m.**

*Can Practice Make Perfect? A Novel Gait Training Device Improves Gait Patterns*  
Nicole Szyszka, St. Catherine University

### **ENGINEERING SCIENCE BUILDING 218**

#### **Biomedical Engineering**

### **11:00-11:20 a.m.**

*A Comparison of Frontal and Sagittal Plane Axisymmetric Finite Element Models of the Left Ventricle*  
Arlynn Baker, Western Carolina University

## Student Oral Session 1 - Thu 11:00am-12:00pm

### **11:20-11:40 a.m.**

*An Experimental Investigation Toward Ultrasound-Responsive Shape Memory Polymer-Based Mechanisms*

Jerry Stieg, Virginia Polytechnic Institute & State University

### **11:40 a.m.-12:00 p.m.**

*Antibiotic Loaded Magnetic Microbeads for Use as a Local Drug Delivery System*

David LeVine, University of Memphis

## **ENGINEERING SCIENCE BUILDING 220**

### **Civil Engineering**

#### **11:00-11:20 a.m.**

*Effects of Non-Structural Components on Vibration Serviceability of Building Structures*

Maria Carotti, Virginia Polytechnic Institute & State University

#### **11:40 a.m.-12:00 p.m.**

*Investigation of Modulus of Elasticity and Surface Electrical Resistivity in High Performance Concrete Using Natural Zeolite*

Nidhi Modha, California State University, Fullerton

## **ENGINEERING SCIENCE BUILDING 222**

### **Engineering/Engineering Technology**

#### **11:00-11:20 a.m.**

*Designing a Smart Walker for Older Adults*

Beth Lester, Elon University

#### **11:40 a.m.-12:00 p.m.**

*Fabrication of Strong and Lightweight Metamaterials Through a Combination of Advanced and Traditional Manufacturing Processes*

Christian Dao, Lamar University

## **ENGINEERING SCIENCE BUILDING 311**

### **Mechanical Engineering**

#### **11:00-11:20 a.m.**

*Physics Based Modeling of Fibrous Insulation Using Comparative Cut-Bar Experimentation*

Marcus Irvan, University of Kentucky

### **11:20-11:40 a.m.**

*Sensitivity Analysis of a Circular and Square Piezoresistive Pressure Sensor for MEMS Applications*

Blaine Wagner, Eastern Washington University

#### **11:40 a.m.-12:00 p.m.**

*Surface Modification of Laser Metal Deposited Ti-6Al-4V +10%Mo for Biomedical Applications*

Arianna Ziemer, Milwaukee School of Engineering

## **FOGELMAN CLASSROOM BUILDING 119**

### **Management**

#### **11:00-11:20 a.m.**

*Rigorous Project Management in a Creative Environment*

Bryan Nahrwold, Utah Valley University

#### **11:20-11:40 a.m.**

*The Impact of Entrepreneurial Orientation on Value Creation for Stakeholders: A Longitudinal Study of S & P 500 Companies*

Sara Antony, Hamline University

#### **11:40 a.m.-12:00 p.m.**

*The Outsider: Alan Mulally's Leadership at Ford Motor Company*

Drew Larabee, Corban University

## **FOGELMAN CLASSROOM BUILDING 125**

### **Entrepreneurship**

#### **11:40 a.m.-12:00 p.m.**

*Development of an Integrated, Consolidated University Resource Platform*

Danielle van der Eijk, Florida International University

### **Management**

#### **11:00-11:20 a.m.**

*Interviewer Judgments of Applicants with Criminal Record: A Qualitative Study of Human Resource Managers Employed in Ban the Box States.*

Jonathan Resende-Barros, Bridgewater State University

#### **11:20-11:40 a.m.**

*On the Road: Opportunities and Threats for Chinese Enterprises Under the "One Belt One Road" Strategy*

Zishan Xue, Bridgewater State University

## Student Oral Session 1 - Thu 11:00am-12:00pm

### **FOGELMAN CLASSROOM BUILDING 127**

#### **Economics**

**11:00-11:20 a.m.**

*Alleviating the Wage Penalty, the Effect of Regular Exercise on Wages of Overweight Women*  
Elizabeth Williams, Black Hills State University

**11:20-11:40 a.m.**

*Alternatives to the Minimum Wage: Tax Subsidies in an Experimental Labor Market*  
Luke Lebsack, Westmont College

**11:40 a.m.-12:00 p.m.**

*Are the Rich Getting Richer and the Poor Poorer?*  
Allison Harvey, Eastern Washington University

### **FOGELMAN CLASSROOM BUILDING 131**

#### **Economics**

**11:00-11:20 a.m.**

*Out of School and Out of Work (Ninis) and Their Hindrance to Economic Growth: The Case of Guatemala*

Alicia Brizuela, George Mason University

**11:20-11:40 a.m.**

*Oxen as Draft Animals in the Agricultural System of Nicaragua*  
Rodrigo Mireles, Midwestern State University

**11:40 a.m.-12:00 p.m.**

*Parallels Amidst Chaos: Examining Consumer Choices in Reaction to Brexit and the 2016 U.S. Presidential Election*  
Madalyn Lynch, Seattle University

### **FOGELMAN CLASSROOM BUILDING 133**

#### **Hospitality and Resort Management**

**11:00-11:20 a.m.**

*Effects of Service Quality on Hotel Class*  
Victoria Joosten, University of West Florida

**11:20-11:40 a.m.**

*Hotel Price Competition Between Fort Walton and Pensacola*  
Rachel Anderson, University of West Florida

### **FOGELMAN CLASSROOM BUILDING 259**

#### **Nursing**

**11:00-11:20 a.m.**

*An Analysis of Undergraduate Student Reflections in a Cultural Diversity Course: Preparing Future Nurses to Provide Culturally Safe Care*  
Rosetta Washington, University of Wisconsin - Milwaukee

**11:20-11:40 a.m.**

*Comparative Study of Mental Illness in the United States Compared to Developing Countries*  
Megan Hossler, University of West Florida

**11:40 a.m.-12:00 p.m.**

*Cuddling as an Alternative Treatment for Heroin Withdrawal Symptoms in Infants*  
Tesiya Franklin, Virginia Commonwealth University

### **FOGELMAN CLASSROOM BUILDING 261**

#### **Physics**

**11:20-11:40 a.m.**

*Development and Characterization of Phosphor-doped Silica Aerogel as a Thermographic Sensor*  
Katherine Mitchell, University of Memphis

**11:40 a.m.-12:00 p.m.**

*Dielectric Anisotropy, Elastic Constants, and Threshold Voltage Measurements of Gold-nanoparticle Colloids in Nematic 5CB*  
Angelo Visco, Slippery Rock University

### **FOGELMAN CLASSROOM BUILDING 262**

#### **Public Health**

**11:00-11:20 a.m.**

*Assessing Food Insecurity at Northern Illinois University*  
Lexie Williams, Northern Illinois University

**11:20-11:40 a.m.**

*Assessing Pregnancy Prevention and Vocational Needs of South African Adolescents and Young Adults: A Community-Based Participatory Approach*  
Nosipho Shangase, Elon University

## **Student Oral Session 1 - Thu 11:00am-12:00pm**

### **11:40 a.m.-12:00 p.m.**

*Assessment and Solutions to Health Needs of the Hispanic Community in Middle Georgia*  
Kim Bélanger-Giguère, Mercer University

### **FOGELMAN CLASSROOM BUILDING 263**

#### **Public Health**

##### **11:20-11:40 a.m.**

*Welcome to My World; A Mix-Method Study of Parents' Lived Experiences in Raising Children with Primary Lymphedema*  
Lauren Ramsey, Miami University

### **FOGELMAN CLASSROOM BUILDING 264**

#### **International Studies**

##### **11:00-11:20 a.m.**

*Anti-Integration Policy: Challenges Facing Refugees During Integration in Berlin*  
Natalia Rodriguez, Long Island University

##### **11:20-11:40 a.m.**

*Art as a Tool of Community Integration: The Case of Irregular Immigrants from Sub-Saharan Africa Living in Rabat, Morocco*  
Gioia Berlin, Long Island University

##### **11:40 a.m.-12:00 p.m.**

*Buddhist Nationalism and Its Influence on Intergroup Conflict in Sri Lanka and Myanmar*  
Phoebe Lemon, George Mason University

### **FOGELMAN CLASSROOM BUILDING 265**

#### **International Studies**

##### **11:00-11:20 a.m.**

*The Western War on the Middle Eastern Front*  
Angela Grate, Capital University

##### **11:20-11:40 a.m.**

*Through the Prism of 'Blackness': Contemporary Migration and Race Relations in Rabat, Morocco*  
Eva Blanc, Long Island University

##### **11:40 a.m.-12:00 p.m.**

*Thucydides' Methodology: Political Rhetoric and Human Behavior in Realist International Relations Theory*  
Michael Galfetti, George Mason University

### **JONES HALL 200**

#### **Education**

##### **11:00-11:20 a.m.**

*"No Homo, Bro": Sexuality and Its Perception in the High School Environment*  
Jacob Cole, Luther College

##### **11:20-11:40 a.m.**

*A Comprehensive Study of Attributes Found Within Accomplished Middle School Band Programs*  
Jacqueline Messinetti, University of Tennessee at Knoxville

##### **11:40 a.m.-12:00 p.m.**

*Addressing the Gaps in Services and Supports a Comprehensive Regional University Offers for Students Who Have Experienced Trauma.*  
Ashley Ellison, Eastern Washington University

### **JONES HALL 212**

#### **Linguistics**

##### **11:00-11:20 a.m.**

*A Chatbot Framework for Casual Conversation*  
Jeremy Brown, Macaulay Honors College at CUNY

##### **11:20-11:40 a.m.**

*Factors Affecting the L2 Acquisition of the Spanish Vibrants [?R]: Age of Acquisition, Learning Contexts, and Linguistic Background*  
Maria Priore, State University of New York-Geneseo

##### **11:40 a.m.-12:00 p.m.**

*Ideology and Post-Vernacularity in Yiddish Pedagogy*  
Alex McGrath, State University of New York-Geneseo

### **JONES HALL 214**

#### **Literature**

##### **11:20-11:40 a.m.**

*Making the Medieval Modern: An Investigation of Medieval and Postmodern Misogyny and Feminist Discourse Through Neomedieval Fantasy Literature*  
Melissa Troutt, University of Wisconsin - La Crosse

## Student Oral Session 1 - Thu 11:00am-12:00pm

### **11:40 a.m.-12:00 p.m.**

*Masters of Conviction: Watchmen's Rorschach as a Commentary on Anti-Establishment Themes in Bob Dylan's The Freewheelin' Bob Dylan*  
Erika Schoeps, Capital University

### **JONES HALL 218**

#### **Literature**

##### **11:00-11:20 a.m.**

*Thread and Verse: Situating the Garment Weaver in Greek Epic*  
Mason Barto, Brooklyn College

#### **Poetry & Creative Writing**

##### **11:20-11:40 a.m.**

*"I Can Hold Your Hand When You're Dead": A Creative Analysis of Personal Poetic Development*  
Sebastián Maldonado-Vélez, Truman State University

##### **11:40 a.m.-12:00 p.m.**

*Blood for Blood's Sake: A Short Collection of Poetry*  
Rebecca Grischow, Valparaiso University

### **JONES HALL 226**

#### **English**

##### **11:00-11:20 a.m.**

*Benefits of Integrated Writing Across the Disciplines Pedagogy in a Mid-Level Geomorphology Course*  
Jenna Murphy, North Dakota State University (Nlt)

##### **11:20-11:40 a.m.**

*Agents of Usurpation: Tracing the Conquests for Legitimacy of Shakespeare's Ambitious Villains*  
Thomas Simonson, University of North Carolina, Charlotte

##### **11:40 a.m.-12:00 p.m.**

*Blending Fact and Fiction with Continuing Conversations: The Necessity of Afterwards in Biographical Fiction for Children and Young Adults*  
Zoe Blumhardt, University of Minnesota - Morris

### **JONES HALL 237**

#### **Education**

##### **11:00-11:20 a.m.**

*Lessons Learned with Community Based Research: Comparing Approaches*  
Marla Rosenvall, Weber State University

##### **11:20-11:40 a.m.**

*Let's Try This Instead: A Case Study and Analysis of Multimodal Composition in the Middle School English Language Arts Classroom*  
Kate Bauer, The University of Findlay

##### **11:40 a.m.-12:00 p.m.**

*Moral Imprinting on Student's Lives: Teacher Influence on Morality, Purpose, and Identity Exploration Through Art Education*  
Morgan Jones, Texas State University - San Marcos

### **JONES HALL 239**

#### **English**

##### **11:00-11:20 a.m.**

*Subjectivity, Authenticity, and the Contextualized Body*  
Rachel Crawford, Meredith College

##### **11:20-11:40 a.m.**

*Sustaining Well-Being in an Electromagnetic Environment: A Rhetorical Analysis*  
Brooke Wallington, Hamline University, St. Paul

##### **11:40 a.m.-12:00 p.m.**

*Teaching For Transfer: Ensuring Student Success in Genre Awareness*  
Jane Kidder, Seattle University

### **JONES HALL 243**

#### **English**

##### **11:00-11:20 a.m.**

*Wordsworth's Aesthetics*  
Kevin Reynolds, Bridgewater State University

##### **11:20-11:40 a.m.**

*YouTube Is the New Closet*  
Matthew Bailey, University of Memphis

## Student Oral Session 1 - Thu 11:00am-12:00pm

### **JONES HALL 249**

#### **English**

##### **11:20-11:40 a.m.**

*Lack of Enlightenment: Female Characterization in Gothic Novels*

Kaylee Lamb, Black Hills State University

##### **11:40 a.m.-12:00 p.m.**

*Laura Cereta: A Psychoanalytical Study*

Shawna Newman, Jacksonville University

### **MANNING HALL 202**

#### **Physical/Occupational Therapy/Speech Language Pathology**

##### **11:00-11:20 a.m.**

*Comparison of Various Technologies in the Acquisition of Speech Samples for Transcription Purposes: Listener Perception vs. Acoustic Analysis of Signal Quality*

Alexa Klimes, University of Northern Iowa

##### **11:20-11:40 a.m.**

*Complementary and Alternative Medicine Uses in Physical Therapy*

Hayden Jinright, University of Kentucky

##### **11:40 a.m.-12:00 p.m.**

*Learning the Language of Math*

Christen Ayers, University of Northern Colorado

### **MANNING HALL 204**

#### **History**

##### **11:00-11:20 a.m.**

*Peter vs. Charles: The Russian Peter the Great vs. Charles XII of Sweden in the Great Northern War*

Loren Carrica, University of Nebraska at Kearney

##### **11:20-11:40 a.m.**

*"I Am Off to the Fire Filled with Courage and Enthusiasm": German American Soldiers in the Civil War*

Richard Maska, Lewis University

##### **11:40 a.m.-12:00 p.m.**

*"The Fame of This Marueylous Mayden Was So Spread Abroade": Elizabeth Barton and the Manipulation of the Female Saint's Voice*

Elissa Branum, John Brown University

### **MANNING HALL 222**

#### **History**

##### **11:00-11:20 a.m.**

*From Roanoke to East Lansing: Charlie Thornhill and College Football's "Underground Railroad."*

Taylor Briese, Roanoke College

##### **11:20-11:40 a.m.**

*From the Twelfth Century to the Twentieth: King Arthur's Transformative Journey to the American Cinema*

Alice Grissom, University of Alabama at Birmingham

##### **11:40 a.m.-12:00 p.m.**

*From Thomas Jefferson to Donald Trump: The Recurring Muslim Xeno-Archetype in American Politics and Government*

Christopher Saladin, Augustana College

### **MANNING HALL 318**

#### **Communications**

##### **11:00-11:20 a.m.**

*The Bro Code: Masculinity Construction and Communication in How I Met Your Mother*

Cameron Brown, University of Memphis

##### **11:40 a.m.-12:00 p.m.**

*Aristotle's Poetics and The Rocky Horror Picture Show*

Alison Russell, Western Carolina University

### **MANNING HALL 320**

#### **Communications**

##### **11:00-11:20 a.m.**

*The Representation of the LGBTQ Community in Media and Their Societal Impact*

Cynthia Zelmore, California University of Pennsylvania

##### **11:20-11:40 a.m.**

*Uncertainty Within Relationships Between Resident Advisors and Residents*

Elizabeth Diviney, Wayne State University

## Student Oral Session 1 - Thu 11:00am-12:00pm

### **11:40 a.m.-12:00 p.m.**

*Understanding Why: A Creative Analysis of Four Social Media Content Producers And How Company Values Distinguish Their Unique Video Style and Tone*  
Morgan Horell, Juniata College

### **MANNING HALL 332**

#### **Religious Studies**

#### **11:20-11:40 a.m.**

*Prometheus Bound to Euromarxism: Christ and Exteriority in Latin American Liberation Theology*  
Casey Aldridge, University of North Carolina, Charlotte

#### **11:40 a.m.-12:00 p.m.**

*Reclaiming Hope in the Gospel of Mark*  
Andrea Bonneville, Concordia College - Moorhead

### **MANNING HALL 340**

#### **History**

#### **11:20-11:40 a.m.**

*The National Museum of African American History and Culture: A History and Critique of a Museum 100 Years in the Making*  
Sarah Beer, University of Wisconsin - Eau Claire

#### **11:40 a.m.-12:00 p.m.**

*The School Question: How the Blaine Amendments Shaped the Course of United States Education*  
Christopher Dailey, Susquehanna University

### **MANNING HALL 413**

#### **Computer Science**

#### **11:00-11:20 a.m.**

*Intelligent Software Application Using Directed Acyclic Graphs for Academic Schedule Advising and Management*  
Oumar Karaga, Fisk University

#### **11:20-11:40 a.m.**

*Advanced Computer Vision Analysis of Microelectronic Imagery*  
Joshua Cannon, Indiana University

### **11:40 a.m.-12:00 p.m.**

*Applications of Predictive Modeling on the Appalachian Trail*  
Christopher Campell, Appalachian State University

### **MANNING HALL 417**

#### **Computer Engineering**

#### **11:00-11:20 a.m.**

*Hardware Implementation of Synapse Using Memristors*  
Ted Ferguson, University of Kentucky

#### **Computer Science**

#### **11:20-11:40 a.m.**

*Tour City of Jacksonville Mobile Application*  
Cindy Leong, Jacksonville University

#### **Sociology**

#### **11:40 a.m.-12:00 p.m.**

*Yo' Mama's Civil Rights Movement*  
Terron Davis, City University of New York- Brooklyn College

### **MANNING HALL 426**

#### **Philosophy & Ethics**

#### **11:40 a.m.-12:00 p.m.**

*The Philosopher Thoreau*  
Randi Gallerani, Bridgewater State University

### **MEEMAN JOURNALISM 106**

#### **Political Science**

#### **11:40 a.m.-12:00 p.m.**

*Memories of Us: National Myths and the Emergence of Xenophobia in American Anti-establishmentarianism*  
E Dalgo, American University

### **MEEMAN JOURNALISM 112**

#### **Political Science**

#### **11:00-11:20 a.m.**

*Les Misérable: The Syrian Refugee Crisis and The French's Response*  
Olivia Britton, Union College

## Student Oral Session 1 - Thu 11:00am-12:00pm

### **11:20-11:40 a.m.**

*The Effects of Fiscal Control Boards: The Case of Puerto Rico*  
Claudia De Leon Dominguez, American University

### **11:40 a.m.-12:00 p.m.**

*"Development" Amidst Conflict: The Paradox of the Colombian Case*  
Daniel Del Basto, Lipscomb University

## **MEEMAN JOURNALISM 204**

### **Political Science**

#### **11:00-11:20 a.m.**

*The Violent Process of State-Building in Post-Colonial Africa*  
Meroua Zouai, Brooklyn College

#### **11:40 a.m.-12:00 p.m.**

*Two Steps Forward and One Step Back: An Assessment of How Uneven Economic Development Affects the Number of Civil Wars*  
Cassandra Scheiber, Gettysburg College

## **MUSIC BUILDING HCH**

### **Music Performance**

#### **11:20-11:40 a.m.**

*Die Kleine Harlequinade: Synthesizing a Directing Education*  
Alexandra Saulsbury, University of Northern Iowa

## **PSYCHOLOGY AUDITORIUM A0200**

### **Experimental Psychology**

#### **11:00-11:20 a.m.**

*"Oh My Goodness I've Found My Calling:" A Qualitative Study of Career Development of Psychologists Working in Cancer Care*  
Afton Nelson, Webster University

#### **11:40 a.m.-12:00 p.m.**

*Bicultural Offspring and Identity Development: The Impact of Conflict Between Parents from Different Cultures*  
Amanda Araki, Dominican University of California

## **PSYCHOLOGY BUILDING 204**

### **Behavioral Neuroscience**

#### **11:00-11:20 a.m.**

*A Non-invasive Procedure for Measuring the P300 in Alcohol-Preferring (P) and Non-preferring (NP) Rats Trained to Perform an Auditory Oddball Task*  
Logan Brewer, University of Memphis

#### **11:20-11:40 a.m.**

*Basolateral Amygdala Activity Evoked by Two Social Preference Challenges*  
Rosemary Pierce-Messick, Appalachian State University

## **PSYCHOLOGY BUILDING 206**

### **Clinical Psychology**

#### **11:20-11:40 a.m.**

*Sociosexuality, Adult Relationship Attachment Style, and Current Relationship Satisfaction*  
Marisa LaBrecque-Grenier, Eastern Connecticut State University

#### **11:40 a.m.-12:00 p.m.**

*Technology Use, Attachment Styles and Relationship Satisfaction Among Dating Couples*  
Brittany Chabot, Eastern Connecticut State University

## **PSYCHOLOGY BUILDING 244**

### **Geography & Earth Sciences**

#### **11:00-11:20 a.m.**

*St. John's River CCA Reef Project*  
Cassandra Veenstra, Jacksonville University

#### **11:20-11:40 a.m.**

*Studying Rheology Using Cleavage Refraction in Quartz-rich Layered Rocks from Baraboo Wisconsin*  
Megan Grosse, University of Wisconsin - Milwaukee

## Student Oral Session 2 - Thu 12:20pm-1:20pm

### **Student Oral Session 2 - Thu 12:20pm-1:20pm**

#### **ART AND COMMUNICATION 247**

##### **Music**

**12:20-12:40 p.m.**

*Amy Beach in Grand Rapids, Michigan, 1918*  
Ellen Messner, Hope College

**1:00-1:20 p.m.**

*Benefits of Music Education: Worth the Fight?*  
Erin Ingram, Appalachian State University

#### **ART AND COMMUNICATION 257**

##### **Art History**

**12:20-12:40 p.m.**

*An American Man: A Semiotic Analysis of Cultural Mythology in Photojournalism from the Iraq and Afghanistan Wars*  
Adam Courbin, Eastern Connecticut State University

**12:40-1:00 p.m.**

*An Exploration of the Intersections of Artistic and Gender Marginalization Through the Works of L.J. Roberts*  
Mikaela Mehlrose, Wells College

**1:00-1:20 p.m.**

*Art, Pollution & Social Practice*  
Martina Maya-Callen, Salisbury University

#### **ART AND COMMUNICATION 310**

##### **Art History**

**12:20-12:40 p.m.**

*The Power of the Image: How Street Art and Street Media Can Reduce Tensions in Refugee Integration into Berlin*  
Brianna Stuczynski, Long Island University

**12:40-1:00 p.m.**

*The Throne of Tutankhamun*  
Jenalle Saulsberry, University of Memphis

**1:00-1:20 p.m.**

*The Transformation of the Bourgeois Female Gaze in Scenes at the Opera by Manet and Cassatt*  
Gia Pineda, Elon University

#### **ART AND COMMUNICATION 314**

##### **Theatre/Drama**

**12:20-12:40 p.m.**

*Decoding the X: Discovering the Black Experience*  
Skylar Jackson, Kennesaw State University

**12:40-1:00 p.m.**

*The Cherub's Mask: Utilizing Personal Experience Within Dramatic Work*  
Jack Morsoillo, North Central College

**1:00-1:20 p.m.**

*The Demographic Disconnect of Theatre*  
Nathaniel Gesualdo, Kennesaw State University

#### **DUNN HALL 103 / 105**

##### **African American Studies**

**12:40-1:00 p.m.**

*Humanity on the Verge of Insanity: Discovering the Cause and Effects of Racial Discrimination Using the Concept of Ubuntu*  
Danica Skoric, Dominican University of California

**1:00-1:20 p.m.**

*Making America "Great" Again: Confronting the Truth About the Narrative of Minorities*  
Natasha Popowich, University of the Pacific

#### **DUNN HALL 107**

##### **Communications**

**12:20-12:40 p.m.**

*Lessons in La Dolce Vita*  
Chloe Lyden, Jacksonville University

**12:40-1:00 p.m.**

*"Breathe In, Breathe Out:" Analyzing Communication Within a Yoga Class*  
Jimmy Scott, University of Central Oklahoma

## **Student Oral Session 2 - Thu 12:20pm-1:20pm**

**1:00-1:20 p.m.**

*"Good God, Lemon:" Examining the Atypical Female in 30 Rock*  
Jennifer Walsh, Ithaca College

### **DUNN HALL 109**

#### **Archeology**

**12:20-12:40 p.m.**

*Individualistic Symbolic Imagery on Gravestones Reflects a Change in Societal Values*  
Meagan Fitzpatrick, San Jacinto College Honors Program

**12:40-1:00 p.m.**

*Making Men Gods: The Precedence and Pursuit of Deification at Rome*  
Danielle Michele Vander Horst, University of Rochester

### **DUNN HALL 119 / 121**

#### **Biochemistry**

**12:20-12:40 p.m.**

*Optogenetic Control of ROS Production in C. elegans*  
Alicia Wei, University of Rochester

**12:40-1:00 p.m.**

*Purification of LGN Protein for X-ray Crystallography*  
Autumn Smith, State University of New York-Brockport

**1:00-1:20 p.m.**

*Structural Effects of Platinum Compounds on DNA*  
Brigid Jacob, Wayne State University

### **DUNN HALL 123/125**

#### **Biology**

**12:20-12:40 p.m.**

*Effects of Sodium Bicarbonate on Xanthomonas translucens*  
Joseph Wodarek, University of Minnesota - Crookston

**1:00-1:20 p.m.**

*Establishment of a Piedmont Prairie by Disking and Seeding of Native Species*  
Elizabeth Barker, Elon University

### **DUNN HALL 124**

#### **Cell & Molecular Biology**

**12:20-12:40 p.m.**

*Anabolic Glucose Metabolism Is Significantly Enhanced in Pancreatic Cancer During the Evolution of Distant Metastasis*  
Alexander Coley, University of South Alabama

**12:40-1:00 p.m.**

*Anti-proliferative Effects of Epigallocatechin-gallate and Enoxacin on Cervical Cancer-derived Cells in Culture*  
Anna Margaret McDonnell, Belmont University

**1:00-1:20 p.m.**

*Combining Natural Compound  $\beta$ -glucan with Immune Checkpoint Inhibitor Therapy to Promote Antitumor Immunity*  
Josephine Kim, University of Kentucky

### **DUNN HALL 129**

#### **Cell & Molecular Biology**

**12:20-12:40 p.m.**

*The Effect of Co-Culturing H9c2 Cardiomyocytes with Mesenchymal Stem Cells on the Expression of Cardiac Troponin-T*  
Jordan Jousma, Trinity Christian College

**12:40-1:00 p.m.**

*Validating the Association of SLC2A9 and NLN with the Entropion Phenotype in a Domestic Sheep Herd*  
Heather Buchhop, University of Minnesota - Crookston

### **DUNN HALL 225 / 227**

#### **Chemistry**

**12:20-12:40 p.m.**

*Effects of Ultrasound on the Digestive Enzyme Pepsin A*  
Kathryn Kapp, Gannon University

**12:40-1:00 p.m.**

*Enzymatic Separation of 2-ethyl-1-hexanol: Synthesis of the Enantiomers of DEHP and MEHP*  
Kwame Bempong, University of Mary Washington

## Student Oral Session 2 - Thu 12:20pm-1:20pm

### **1:00-1:20 p.m.**

*Methylmercury Contamination in the Lower Food Web of At-Risk Minnesota Rivers*

Phoenix Rogers Rogers, University of Wisconsin - La Crosse

### **DUNN HALL 233**

#### **Mathematics**

##### **12:20-12:40 p.m.**

*Statistical Analysis of Reported Health Habits and Mental Health from the Bridge to Health Survey 2015: Northeastern Minnesota and Northwestern Wisconsin*  
Torri Simon, University of Minnesota, Duluth

##### **12:40-1:00 p.m.**

*Truly Three-Dimensional Graphing Calculator*  
Jacqueline Bonds, Coastal Georgia Community College

##### **1:00-1:20 p.m.**

*Universal Algebra and Boolean Semilattices*  
Charlotte Aten, University of Rochester

### **DUNN HALL 249 / 251**

#### **Biology**

##### **12:20-12:40 p.m.**

*Phenotypic Study of Stunter2*  
Jacob Brandt, Wisconsin Lutheran College

##### **12:40-1:00 p.m.**

*Phylogeography and Population Genetics of *Donax variabilis**  
Sheridan Wilkinson, University of West Florida

### **DUNN HALL 351**

#### **Health Sciences**

##### **12:40-1:00 p.m.**

*Comparison of a Point-of-care Glucometer (POCG) and an Automated Biochemical Analyzer to Measure Glucose Concentrations in Whole Blood, Serum, and Plasma from Porcine Blood Samples*  
Madison Gohlke, Auburn University

##### **1:00-1:20 p.m.**

*Comparison of Various Exercise Types Among Stress Reduction*  
Carolyn Ansel, Radford University

### **ENGINEERING SCIENCE BUILDING 218**

#### **Biomedical Engineering**

##### **12:20-12:40 p.m.**

*Contributions of Mechanical Unloading to Neonatal Brachial Plexus Injury in Rats*  
Sophia Tushak, North Carolina State University

##### **1:00-1:20 p.m.**

*Designing a Superior Means of Textbook Transportation for Specific Individuals with Limited Mobility*  
Richard Fabian, University of Memphis

### **ENGINEERING SCIENCE BUILDING 220**

#### **Civil Engineering**

##### **12:20-12:40 p.m.**

*Lab Evaluation of the Mechanical Responses of Northern Arizona Soil Under Polymer Based Dust Suppressant*  
Yijie Gao, Northern Arizona University

##### **12:40-1:00 p.m.**

*Traffic Signal Optimization Using Simulation Modeling*  
Kamron Jafari, University of Memphis

### **ENGINEERING SCIENCE BUILDING 222**

#### **Engineering/Engineering Technology**

##### **12:20-12:40 p.m.**

*Fusor: Nuclear Fusion Small-Scale Proof of Concept and Demonstration*  
Aaron Garofalo, Oakland University

##### **12:40-1:00 p.m.**

*Investigating Ideation Flexibility Through Incremental to Radical Design Heuristics*  
Ian Baker, Iowa State University

### **ENGINEERING SCIENCE BUILDING 311**

#### **Mechanical Engineering**

##### **12:20-12:40 p.m.**

*The Impact of Red Iron-Oxide and Grain Geometry on Solid Rocket Motors for Amateur Rockets Reaching Mach 3*  
Cameron Kurtz, Embry - Riddle Aeronautical University

## Student Oral Session 2 - Thu 12:20pm-1:20pm

### **12:40-1:00 p.m.**

*The Influence of Geometric Parameters on the Efficiency of a Passive Thermosiphon*  
Austin Cibulka, University of Evansville

### **1:00-1:20 p.m.**

*Using Aerosol Deposition to Develop a Novel Method to Manufacture and Advance Solid-State Batteries*  
Harsh Jhaveri, University of Michigan

## **FOGELMAN CLASSROOM BUILDING 119**

### **Business/Finance/Accounting**

### **12:20-12:40 p.m.**

*A Balanced Approach to Nonprofit Performance Evaluation*  
Michael Daniels, Augustana College

### **12:40-1:00 p.m.**

*Abstract On 'One Belt One Road' Initiative*  
Xinran Li, Bridgewater State University

### **1:00-1:20 p.m.**

*Abstract: Plates and The Irish Bred Pub*  
Carter Brown, University of West Georgia

## **FOGELMAN CLASSROOM BUILDING 125**

### **Marketing**

### **12:20-12:40 p.m.**

*A Comparative Analysis of Marketing Strategies Adopted While Targeting Bottom of the Pyramid (BoP) Consumers : Reading Pa. USA vs. Rural Karnataka, India*  
Elizabeth Weinelt, Albright College

## **FOGELMAN CLASSROOM BUILDING 127**

### **Economics**

### **12:20-12:40 p.m.**

*Causes and Consequences of Inequality*  
Matthew Hosty, Moravian College

### **12:40-1:00 p.m.**

*Causes of South Korea's Low Birth Rate*  
Jisung Yang, Minnesota State University, Mankato

### **1:00-1:20 p.m.**

*China: Electric Power in Transition*  
Rahul Gupta, Guilford College

## **FOGELMAN CLASSROOM BUILDING 131**

### **Economics**

### **12:40-1:00 p.m.**

*Rising Food Prices: The Case of Childhood Poverty in a Developed Economy*  
Megdalynn Fisher, Utah Valley University

### **1:00-1:20 p.m.**

*Russia's Oil Production Policies: A Game Theoretical Approach to Russian Responses to Global Oil Price Changes*  
Dallas Phillips, University of the Pacific

## **FOGELMAN CLASSROOM BUILDING 133**

### **Microbiology & Immunology**

### **12:20-12:40 p.m.**

*Antibiotic Resistance and DNA Profiling of Pseudomonas aeruginosa, Staphylococcus aureus, and Staphylococcus epidermidis in Wet and Dry Eye Makeup Applicators*  
Ashley Rojas, Lubbock Christian University

### **12:40-1:00 p.m.**

*Antibiotic Resistance of Pseudomonas Aeruginosa Recovered from Cystic Fibrosis Patients*  
William Starr, Oklahoma State University

### **1:00-1:20 p.m.**

*Can Baby Bottles and Cans Contribute to the Development of Autoimmune Type 1 Diabetes?*  
Shana Rogan, Saint Cloud State University

## **FOGELMAN CLASSROOM BUILDING 259**

### **Nursing**

### **12:20-12:40 p.m.**

*Does the Use of an Electronic Medication Administration Record Enhance Fidelity in Nursing Simulation?*  
Arwa Salhab, Stevenson University

## Student Oral Session 2 - Thu 12:20pm-1:20pm

### **12:40-1:00 p.m.**

*Electronic Charting in Nursing Simulation: Does It Enhance Safety?*  
Kathleen Chucko, Stevenson University

### **1:00-1:20 p.m.**

*Exploration of Symptoms in Hispanic Adolescents and Young Adults with Cancer*  
Diana Navarro Suarez, University of Wisconsin - Milwaukee

## **FOGELMAN CLASSROOM BUILDING 261**

### **Physics**

### **12:20-12:40 p.m.**

*Effect of Surface Topography on Neuronal Response*  
Martina Rodriguez Sala, University of Memphis

### **12:40-1:00 p.m.**

*Effects of Pressure and Strain on Spin Polarization of IrMnSb*  
Juliana Herran, University of Northern Iowa

### **1:00-1:20 p.m.**

*Efficient Coupling of Acoustic Power into Granular Materials*  
Brandon Morrow, Presbyterian College

## **FOGELMAN CLASSROOM BUILDING 262**

### **Public Health**

### **12:20-12:40 p.m.**

*Birth Experiences of Primiparous African-American Women: The Influence of Birth Stories Heard During Pregnancy*  
Michelle Reissig, Elon University

### **12:40-1:00 p.m.**

*Child Spacing Decision-making and Couple Communication Among Somali Men and Women in the Twin Cities*  
Fathi Ahmed, St. Catherine University

### **1:00-1:20 p.m.**

*Community Health Aid Efficacy: Informed Observations from Himalayan Communities in Northeastern India*  
Joseph Millward, Seattle University

## **FOGELMAN CLASSROOM BUILDING 264**

### **International Studies**

### **12:20-12:40 p.m.**

*Challenging the Dominant Economic and Political Structures of Society: the Emergence of Alternative Media in Spain*  
Ashley Murphy, Illinois College

### **1:00-1:20 p.m.**

*Decoding NGO Action: How the Role of NGOs Propagates Conflict Between Refugee Groups and Host Communities*  
Abby Ragan, American University

## **FOGELMAN CLASSROOM BUILDING 265**

### **International Studies**

### **12:20-12:40 p.m.**

*Torture in Times of Terror: State-Sponsored Torture in Nigeria During the Boko Haram Insurgency*  
Bridget Smith, Elon University

### **12:40-1:00 p.m.**

*Violations of Medical Neutrality in Syria*  
Fatimah Choudhary, Brooklyn College

### **1:00-1:20 p.m.**

*Whispered Screams*  
Fatmata Bah, Long Island University

## **JONES HALL 200**

### **Education**

### **12:20-12:40 p.m.**

*An Archival Study of Grammar Instruction: Looking to the Past for Future Best Practices in Writing Instruction*  
Hannah Patriquin, Bridgewater State University

### **12:40-1:00 p.m.**

*Analysis of Transition Resources for Siblings of Individuals with Disabilities*  
Nicole Green, Eastern Connecticut State University

### **1:00-1:20 p.m.**

*Approaches to Teaching Literature in the 21st Century*  
Allison Niese, The University of Findlay

## Student Oral Session 2 - Thu 12:20pm-1:20pm

### **JONES HALL 212**

#### **Linguistics**

**12:20-12:40 p.m.**

*Meskwaki Language Revitalization*  
Pablo Lopez Alonso, Luther College

**12:40-1:00 p.m.**

*Patwa Is a Language: No Ifs Buts or Maybes*  
Rashana Lydner, State University of New York-Brockport

**1:00-1:20 p.m.**

*The Language Still Duh Gwine Down Yuh: Creole Origins of African American Vernacular English*  
Krystal Briggs, Brooklyn College

### **JONES HALL 214**

#### **Literature**

**12:40-1:00 p.m.**

*Moments of Being: Escaping Performativity in the Fiction of Virginia Woolf*  
Abby Schroering, University of Kentucky

### **JONES HALL 218**

#### **Poetry & Creative Writing**

**12:40-1:00 p.m.**

*Daddy B*  
Veronica Bagby, John Brown University

**1:00-1:20 p.m.**

*Flight Safety Instructions*  
Ocean Scheel, University of Central Oklahoma

### **JONES HALL 226**

#### **English**

**12:20-12:40 p.m.**

*Bridled Candor: Jean Baudrillard and the "Wild Horses of the West"*  
Amanda Dornhecker, College of St Scholastica

**12:40-1:00 p.m.**

*Capitalism and the Commodification of Humanity in Catch-22 and The Catcher in the Rye*  
Grant Looper, Anderson College

**1:00-1:20 p.m.**

*Caulfield's Cognitive Crisis: A Psychoanalytic Approach to Salinger's Catcher in the Rye*  
Catherine Allegretti, Eastern Connecticut State University

### **JONES HALL 237**

#### **Education**

**12:20-12:40 p.m.**

*Oral Language Interactions Between Students and Teachers in One-Way and Two-Way Immersion Programs*  
Kristin Arnold, Bridgewater State University

**12:40-1:00 p.m.**

*Students' Perceptions of the Benefits of Learning Communities*  
Francine Baron, Midwestern State University

**1:00-1:20 p.m.**

*Teaching a Work of Literature Through Its Historical Development: A Unit Plan Format for Romeo and Juliet*  
Robert Russell, Black Hills State University

### **JONES HALL 239**

#### **English**

**12:20-12:40 p.m.**

*The Athlete's Journal: Composition Theory in the Arena of Competitive Sport*  
Kaitlin Wingert, Messiah College

**12:40-1:00 p.m.**

*The Bildungsroman Quest in The Raven King and "The Noble Tale of the Sangrail"*  
Erin Wages, Anderson College

### **JONES HALL 243**

#### **Philosophy & Ethics**

**12:20-12:40 p.m.**

*A Moral Analysis of the Case of Joseph H*  
Kirstiana Brickman, Siena College

**12:40-1:00 p.m.**

*A Return to Tradition*  
West Poindexter, University of West Georgia

## Student Oral Session 2 - Thu 12:20pm-1:20pm

### **1:00-1:20 p.m.**

*An Earth Ethic for the New Millennium: Investigating the Moral Status of the Natural World*  
Benjamin Troupe, University of Kentucky

### **JONES HALL 249**

#### **English**

##### **12:20-12:40 p.m.**

*Literature Is Survival in Ray Bradbury's Fahrenheit 451 and Azar Nafisi's Reading Lolita in Tehran: A Memoir in Books*

Hannah Rice, Anderson College

##### **12:40-1:00 p.m.**

*Looking for Meeps: How Dictionaries Reflect Cultural Trends in Language from Johnson to the Urban Dictionary*

Ricky Finch, Lipscomb University

##### **1:00-1:20 p.m.**

*Misapplications of Darwin's Origin of Species: Nazi Germany and the Eugenics Movement*

Emily Wollmuth, Hamline University

### **MANNING HALL 202**

#### **Physical/Occupational Therapy/Speech Language Pathology**

##### **12:20-12:40 p.m.**

*Post-Therapy Collaboration*

Kary Sheppard, University of Minnesota - Crookston

##### **12:40-1:00 p.m.**

*The Role of Exercise in Persons with Cerebral Palsy*

Lauren Boush, Radford University

#### **Physiology**

##### **1:00-1:20 p.m.**

*Recurrent Hypoglycemia Reduces Severe Hypoglycemia-Induced Fatal Cardiac Arrhythmias in Type 1 Diabetic Rats*

Justin Bayles, University of Utah

### **MANNING HALL 204**

#### **History**

##### **12:20-12:40 p.m.**

*1964 Olympics: More Than Just Sports? How Japan Utilized the Olympic Games for Ulterior Motives*

Christopher Suen, Dominican University of California

##### **12:40-1:00 p.m.**

*Adelicia Acklen: An Unconventional Southern Woman*

Christian Keen, Trevecca Nazarene University

##### **1:00-1:20 p.m.**

*American Court System, Asians, Conception of Race*

Esther Johnson, Illinois College

### **MANNING HALL 222**

#### **History**

##### **12:20-12:40 p.m.**

*George P. Mitchell Father of Hydraulic Fracturing*

Lukas Weiss, San Jacinto College Honors Program

##### **12:40-1:00 p.m.**

*German Resistance Inside of Nazi Germany*

Mary Dickey, Elmhurst College

##### **1:00-1:20 p.m.**

*God Save the Queen's Things: Race, Class, and Theologies of Property in the 2016 Charlotte Uprising*

Casey Aldridge, University of North Carolina, Charlotte

### **MANNING HALL 318**

#### **Communications**

##### **12:40-1:00 p.m.**

*Beautiful Suffering: Structuring Our Vision of Refugees as the Other Through Winning Pulitzer Prize Images in 2016*

Diana Langer, Juniata College

### **MANNING HALL 320**

#### **Communications**

##### **12:20-12:40 p.m.**

*Warped Space-Time: Exploiting Schematic Assumptions in "Ritual in Transfigured Time"*

Grant Brighter, Ithaca College

## Student Oral Session 2 - Thu 12:20pm-1:20pm

**12:40-1:00 p.m.**

*We've Been Trumped! Personality Predictors of Voting Behavior*  
Allie Schultz, Hope College

### **MANNING HALL 332**

**Religious Studies**

**12:40-1:00 p.m.**

*Reverse Discourse: Shariati's Revolutionary Islam*  
Venitia Boyce, Occidental College

### **MANNING HALL 340**

**History**

**12:20-12:40 p.m.**

*The State of Bridgewater: Developments in the Bridgewater State College Campus Through Undergraduate Students Activism*  
Kayla Hoyt, Bridgewater State University

**12:40-1:00 p.m.**

*The Suppression of the African Slave Trade in The Illustrated London News*  
Samuel Mosher, University of Missouri - Columbia

### **MANNING HALL 413**

**Computer Science**

**12:20-12:40 p.m.**

*Bee Audio Frequency Analysis*  
Preston Wilson, Appalachian State University

**1:00-1:20 p.m.**

*Computational Chemistry in the Cloud*  
Nathan Vance, Hope College

### **MANNING HALL 417**

**Computer Science**

**12:40-1:00 p.m.**

*When Is an Algorithm Bias Free?*  
Tyler Delano, University of North Alabama

**Sociology**

**1:00-1:20 p.m.**

*The Kids Are Alt-Right: A Cultural Window into the Disenfranchised*  
Alex Jankowski, Chaminade University of Honolulu

### **MANNING HALL 426**

**Philosophy & Ethics**

**12:20-12:40 p.m.**

*The Theopolitical Vision of the 'De Ordine Palatii' by Hincmar of Rheims*  
Doyle Baxter, Xavier University

**12:40-1:00 p.m.**

*Three Men Walk Into a Bar: A Defense of Plato's Forms*  
Amanda Adie, University of Central Oklahoma

**1:00-1:20 p.m.**

*View from No Where: Husserl and Whitehead on Scientific Modernity and Its Discontents*  
Nathan Deitcher, Juniata College

### **MEEMAN JOURNALISM 106**

**Political Science**

**12:20-12:40 p.m.**

*Narrative, Memory and Identity: Storytelling in the Bosnian Diaspora in St. Louis, Missouri*  
Alex Vandermaas-Peeler, Elon University

**12:40-1:00 p.m.**

*Policy Makers and Entrepreneurs: A Relationship That Seeks Solution*  
Janna Johnson, Wingate University

**1:00-1:20 p.m.**

*Political Negotiations and Government Shutdowns*  
Cassidy Teminsky, Capital University

### **MEEMAN JOURNALISM 112**

**Political Science**

**12:20-12:40 p.m.**

*A Free Trade Deal with China: The Rewards and The Risks for Canada*  
Crystal Wong, Carleton University

**12:40-1:00 p.m.**

*A Just Framing of Healthcare Reform: Distributive Justice Norms and the Success/Failure of Healthcare Reform in America*  
Marisa Parker, Bridgewater State University

## Student Oral Session 2 - Thu 12:20pm-1:20pm

### **1:00-1:20 p.m.**

*A Long Way Back to the Top: A Realist Approach to Russian Foreign Policy*  
Anthony Bellisario, Carthage College

### **MEEMAN JOURNALISM 204**

#### **Political Science**

### **12:20-12:40 p.m.**

*U.S. Social Movements: Where Political and Social Arenas Overlap*  
Ryeshia Farmer, Carthage College

### **12:40-1:00 p.m.**

*Under Pressure: The Nonpartisan League in South Central Minnesota*  
Jonathan Soucek, Minnesota State University, Mankato

### **1:00-1:20 p.m.**

*Why College Students Vote*  
Maribeth Guarino, Susquehanna University

### **PSYCHOLOGY AUDITORIUM A0200**

#### **Experimental Psychology**

### **12:20-12:40 p.m.**

*Center-Embedded Sequence Learning In Children And Non-Human Primates*  
Abigail Haslinger, University of Rochester

### **12:40-1:00 p.m.**

*Characterizing Neglect-Related Cognitive Deficits Following Stroke*  
Margaret Moore, Indiana University

### **1:00-1:20 p.m.**

*Cognitive Tasks*  
Darean Polk, William Peace University

### **PSYCHOLOGY BUILDING 204**

#### **Behavioral Neuroscience**

### **12:20-12:40 p.m.**

*Effects of a Cyclophilin 1 Mutation on Drosophila Locomotion*  
Andrew Wohlschlaeger, Truman State University

### **12:40-1:00 p.m.**

*Effects of Menstrual Cycle Phase, Sex Hormone Levels, and Contraceptive Use On Emotion Regulation*  
Luana Oh Scienza, Kennesaw State University

### **1:00-1:20 p.m.**

*Enrichment Affects Social and Object Preference Differently in Adolescent Rats*  
Sarah Snouse, Appalachian State University

### **PSYCHOLOGY BUILDING 206**

#### **Clinical Psychology**

### **12:20-12:40 p.m.**

*Tell Me About That: A Study of Responses to the Disclosure of Unwanted Sexual Experiences in Undergraduates*  
Kyle Lynch, Elon University

### **1:00-1:20 p.m.**

*The Relationship Between Grade Point Average (GPA) and Locus of Control, and Its Effect on Coping Strategies, Self-Esteem, and Procrastination*  
Lauren Swilley, William Peace University

### **PSYCHOLOGY BUILDING 230**

#### **Geography & Earth Sciences**

### **12:20-12:40 p.m.**

*A Brief Survey on Stormwater Management: A Noble Approach to Tailor the Education and Outreach Efforts of Residents in Flood Affected Areas in Queens County, New York City*  
Mariel Suriel, City University of New York- York College

### **12:40-1:00 p.m.**

*Hydrothermal Vent Particle Analysis Using Experimentally Developed SEM Methods*  
Collin Schladweiler, University of Minnesota, Twin Cities

### **1:00-1:20 p.m.**

*A Refined Estimate of Lava Flow Volume of the Deccan Traps (India) Using Geographic Information Systems*  
Nicholas Barber, Drexel University

## Student Oral Session 3 - Thu 1:40pm-2:40pm

### PSYCHOLOGY BUILDING 244

#### Geography & Earth Sciences

**12:20-12:40 p.m.**

*Temporal Changes in Microbial Composition and Activity in Serpentization-Driven Ecosystems*

Alex Hyer, University of Utah

**12:40-1:00 p.m.**

*The Collapse of Bourgeois Conservation into Utilitarian Waste: Georges Bataille and Alternative Economies of Consumption*

Timothy Lewis, Occidental College

**1:00-1:20 p.m.**

*The Influence of Atmospheric Rivers on Extreme Precipitation Events Observed in the Southern Appalachians*

Lukas Stewart, University of North Carolina - Asheville

### Student Oral Session 3 -

**Thu 1:40pm-2:40pm**

### ART AND COMMUNICATION 247

#### Music

**1:40-2:00 p.m.**

*Christ Lag in Todesbanden: Tracing Early Lutheran Congregational Song*

Hannah Koby, Valparaiso University

**2:00-2:20 p.m.**

*Composing Video Game Music in an Online World*

Noah Copeand, University of Central Oklahoma

**2:20-2:40 p.m.**

*Cymatics: Nature's Hidden Secrets*

Matthew Heim, Capital University

### ART AND COMMUNICATION 257

#### Art History

**1:40-2:00 p.m.**

*Arts & Crafts Stained Glass and Suffrage Banners: How Mary Lowndes Challenged Gendered Binaries in Edwardian London*

Olivia Acker, Colgate University

**2:00-2:20 p.m.**

*Compositional Dissonance: Design of the Periodical Dada and Dada Ideology*

Amelia Goldsby, Truman State University

**2:20-2:40 p.m.**

*Decontextualization of Ukiyo-e Prints in French Impressionism*

Joanne Adams, University of Central Oklahoma

### ART AND COMMUNICATION 310

#### Art History

**1:40-2:00 p.m.**

*The Whitney Plantation: Examining America's First Slavery Trauma-Site Museum*

Mattie Barlow, University of Central Oklahoma

## Student Oral Session 3 - Thu 1:40pm-2:40pm

**2:00-2:20 p.m.**

*Why There Will Still Never Be "Great" Female Artists*  
Victoria Skelton, Greenville Technical College

**Music**

**2:20-2:40 p.m.**

*Text Setting in Colin Britt's Dreamscape*  
Makenzie Spivey, University of North Georgia

### **ART AND COMMUNICATION 314**

**Theatre/Drama**

**1:40-2:00 p.m.**

*The Discordant Historiography of Fashion Studies*  
Grace Bellino, Elmhurst College

**2:00-2:20 p.m.**

*Two Gentlemen of Verona Scenic Design*  
Nicole River, Eastern Connecticut State University

**2:20-2:40 p.m.**

*Under the Helmet: Woyzeck, PTSD, and the Politics of Seeking Help*  
Marcia Harvey, Kennesaw State University

### **DUNN HALL 103 / 105**

**African American Studies**

**1:40-2:00 p.m.**

*Perception vs. Representation: The Impact of Stereotypes and Eurocentric Standards on Black Women*  
Michelle Edward, Kennesaw State University

**2:00-2:20 p.m.**

*Political Efficacy Among African American Women*  
Niara Walden, Fordham University

**2:20-2:40 p.m.**

*The Holistic Community Leadership of African American Educators in Harrisburg, PA, from 1877 to 1954*  
Hannah Eckstrom, Messiah College

**DUNN HALL 107**

**Public Health**

**1:40-2:00 p.m.**

*Evaluation of Distrust in Healthcare and Possible Solution Using Anti-Vaccination Movements*  
Malka Hanukaev, Brooklyn College

**2:00-2:20 p.m.**

*Aging, Health and Neurocognitive Decline: A Cluster Analysis*  
Rachel Ulrich, Montana State University Bozeman

**2:20-2:40 p.m.**

*An Investigation of the Influence of Current Public Health Policies in the United States on the Prevalence of Rural Health Professional Shortage Areas*  
Hayne Noh, Virginia Commonwealth University

**DUNN HALL 109**

**Archeology**

**1:40-2:00 p.m.**

*The Study of Early Aleut Subsistence Patterns Based on Sea Mammal Remains from Kiska Island, Alaska*  
Alexa Hanson, Hamline University, St. Paul

**2:00-2:20 p.m.**

*Stabilization of Waterlogged Wood from a 16th-Century Spanish Shipwreck: The Effectiveness of a Polyethylene Glycol Pretreatment Combined with Lyophilization*  
Shannon Cunningham, University of West Florida

**DUNN HALL 119 / 121**

**Biochemistry**

**1:40-2:00 p.m.**

*Synthesis and Novel Assay of Macrophage Migration Inhibitory Factor (MIF) Inhibitors*  
Nathan Miller, West Chester University

**2:00-2:20 p.m.**

*The Effects of Aroclor 1254 on Estrogen Receptor Alpha in Breast Cancer Cells*  
Victoria Lloyd, Oakland University

## Student Oral Session 3 - Thu 1:40pm-2:40pm

**2:20-2:40 p.m.**

*Where in the World Are Pathogenic Candida Species?*  
Vita Stramaglia, Wayne State University

### DUNN HALL 123/125

**Biology**

**1:40-2:00 p.m.**

*Ethanol Effects on a Developing Zebrafish Thyroid*  
Amanda Sudhoff, Central Connecticut State University

**2:00-2:20 p.m.**

*Exploring the Effect of Rapamycin on T-cell Proliferation and Survival*  
Jenna Dafgek, Elon University

### DUNN HALL 124

**Cell & Molecular Biology**

**1:40-2:00 p.m.**

*Cells Deficient for Krüppel-Like Factor 4 Exhibit Impaired Mitophagy*  
William Rosencrans, Colgate University

**2:00-2:20 p.m.**

*Down-Regulation of RNA 3-Terminal Phosphate Cyclase Attenuates Toll-Like Receptor 3-Mediated Axonal Loss in the Retina and Optic Nerve*  
Naveena Daram, Oakland University

**2:20-2:40 p.m.**

*Enabling Alzheimer's Aβ Phagocytosis by Targeting IRAK-M Innate Immunity*  
Alex Vesling, University of Southern California

### DUNN HALL 129

**Cellular Neuroscience**

**1:40-2:00 p.m.**

*Angiotensin 1-7 Increases NNOS Expression in Cardiac Ganglia Cells of Guinea Pigs*  
Meghann Muldowney, Ithaca College

### DUNN HALL 225 / 227

**Chemistry**

**1:40-2:00 p.m.**

*Molecular Architecture: Building Macrocyclic Complexes with Dirosmium Carbonyl Sawhorse Units and Dicarboxylate Anions*  
David Marolf, Abilene Christian University

**2:00-2:20 p.m.**

*Molecular Dynamics Simulations to Determine Interfacial Partitioning of Ions in Reverse Micelles*  
Gent Prelvukaj, Wagner College

**2:20-2:40 p.m.**

*Novel Binary Reactive Group Functionalized Silsesquioxane Micro-particles and Their Colloidal Self-Assemblies*  
Danielle Chavis, Western Kentucky University

### DUNN HALL 233

**Ecology & Organismal Biology**

**1:40-2:00 p.m.**

*Birds as Vectors for *Borrelia burgdorferi**  
Emily Ostrow, Drexel University

**2:00-2:20 p.m.**

*Comparison of Rate of Predation on Fish-Parasitic Gnathiid Isopods Between Nocturnal Planktivorous Coral Reef Fish and Cleaner Gobies on a Caribbean Coral Reef*  
Alexandra Hook, Arkansas State University

### DUNN HALL 249 / 251

**Biology**

**1:40-2:00 p.m.**

*Population Genetics of *Scaevola* in the Islands of Puerto Rico*  
Adriana Morales Gomez, Ithaca College

**2:00-2:20 p.m.**

*Predictive Seasonal Film Analysis of Honeybee Colonies*  
LaTaunya Tillman, Appalachian State University

## Student Oral Session 3 - Thu 1:40pm-2:40pm

**2:20-2:40 p.m.**

*Put Down the Plastic: BPA and the Developing Brain*  
Joelle Fuchs, North Carolina State University

### **DUNN HALL 351**

#### **Health Sciences**

**1:40-2:00 p.m.**

*Dance Injury Prevention Assessments: A Series of Case Studies*  
Stephanie Pittman, Elon University

**2:00-2:20 p.m.**

*Decreased Testosterone Levels Resulting from Sleep Deprivation and Decreased Muscle Hypertrophy in Male Recreationally Active College Students*  
Alwin Hollebrandse, Virginia Commonwealth University

**2:20-2:40 p.m.**

*Development and Testing of Food Behaviors Questionnaire for Non-Alcoholic Fatty Liver Disease Population*  
Nadia Busekrus, George Mason University

### **ENGINEERING SCIENCE BUILDING 218**

#### **Biomedical Engineering**

**1:40-2:00 p.m.**

*Determination of Anti-fibrotic Effects of Possible Scar-collagen Antagonists on TGF- $\beta$  Treated Dermal Fibroblasts*  
Janelle De Jong, Dominican University of California

**2:20-2:40 p.m.**

*Development of Antigen Specific ELISPOT Assays for Single Cell Determination of Antibodies Elicited by Different Influenza Vaccines*  
Estefania Sablan, University of Utah

### **ENGINEERING SCIENCE BUILDING 220**

#### **Electrical Engineering**

**1:40-2:00 p.m.**

*3D Printed Cartridge Holder for Long Duration Storage of Dimatix 2831 Material Deposition Printer Cartridge with Ink*  
James Palmer, University of Memphis

**2:00-2:20 p.m.**

*A Comparative Analysis of Competing Solar Photovoltaic Technologies: Device Principles, Fabrication Techniques, and Energy Economics*  
Baker Nour, Kennesaw State University

**2:20-2:40 p.m.**

*Automating Electrical Load Shifting at the Residential Level*  
Darby Hudnall, University of North Carolina - Asheville

### **ENGINEERING SCIENCE BUILDING 222**

#### **Mechanical Engineering**

**1:40-2:00 p.m.**

*3D Bin Picking and Placing of Ping Pong Balls Using Robotic Vision and Depth Data*  
Jennifer Leaf, Eastern Washington University

**2:00-2:20 p.m.**

*A Parametric Study of The Mechanical Properties of 3D Printed Parts*  
Hiroshi Yanagida, University of Tennessee at Chattanooga

**2:20-2:40 p.m.**

*Characterization of Functionally Graded Ti6Al4V-mo Material Via Laser Metal Deposition*  
Elizabeth Paoli, Milwaukee School of Engineering

### **ENGINEERING SCIENCE BUILDING 311**

#### **Mechanical Engineering**

**2:00-2:20 p.m.**

*Bingo Bot*  
Tanya Jordan, Eastern Washington University

**2:20-2:40 p.m.**

*Breeze Batt*  
Christian Sroka, Metropolitan State University of Denver

## Student Oral Session 3 - Thu 1:40pm-2:40pm

### **FOGELMAN CLASSROOM BUILDING 125**

#### **Marketing**

**2:20-2:40 p.m.**

*Estimate the Key Growth Determinants of the "Mindfulness Market" by Analyzing the Elements of Supply Chain That Drive the Industry*  
Marissa Scalese, Albright College

### **FOGELMAN CLASSROOM BUILDING 127**

#### **Economics**

**1:40-2:00 p.m.**

*Climate Change and Ecological Debt: a New Perspective*  
Arthur Moss Hawkins, Seattle University

**2:00-2:20 p.m.**

*Computational Modeling of the Macroeconomy with Directed Graphs*  
Linnea Peterson, Luther College

**2:20-2:40 p.m.**

*Consumer Confidence: The Role of Language Among Hispanics*  
Sandra Castro, Florida Atlantic University

### **FOGELMAN CLASSROOM BUILDING 131**

#### **Economics**

**2:00-2:20 p.m.**

*Statistical Analysis of Policy Solutions to Ocean Pollution*  
Phillip Hoeps, Eastern Connecticut State University

### **FOGELMAN CLASSROOM BUILDING 133**

#### **Microbiology & Immunology**

**1:40-2:00 p.m.**

*Characterization of Bacteriophages Specific for *Vibrio* Spp. from the St. Johns River of Jacksonville, Florida*  
Lyndsey Lane, Jacksonville University

**2:00-2:20 p.m.**

*Comparative Functional Analysis of the Bacterial Antibiotic Resistance Protein, TolC*  
Elise Sloey, Wisconsin Lutheran College

**2:20-2:40 p.m.**

*Definition of the Function of the Atg8 Protein in the Malaria Parasite, *Plasmodium falciparum**  
Kieran Tebben, Ohio State University

### **FOGELMAN CLASSROOM BUILDING 259**

#### **Nursing**

**1:40-2:00 p.m.**

*Exploring Black Women's Perceptions of Midwifery and Antenatal Care in Knoxville*  
Hannah Yoder, University of Tennessee at Knoxville

**2:00-2:20 p.m.**

*Family Caregivers of Primary Malignant Brain Tumors Needs Over Time and at Key Transition Points*  
Emilie Hausmann, University of Pittsburgh School of Nursing

**2:20-2:40 p.m.**

*Is Temporal Artery Thermometry a Useful Indicator of Core Body Temperature in Patients Receiving General Anesthesia?*  
Grace Paik, University of Pittsburgh School of Nursing

### **FOGELMAN CLASSROOM BUILDING 261**

#### **Physics**

**1:40-2:00 p.m.**

*Ex Vivo Testing of Basal Cell Carcinomas and Melanomas with High-frequency Ultrasound*  
Christine Dalton, Utah Valley University

**2:00-2:20 p.m.**

*Interlayer Phonons in ReS<sub>2</sub> and NbSe<sub>2</sub> Atomic Layers*  
Gaihua Ye, University of Northern Iowa

**2:20-2:40 p.m.**

*Investigating the Defect and Dopant Properties of CsCa<sub>3</sub>:Eu<sup>2+</sup> for Scintillator Applications: A First-principles Study*  
Jonathan Mize, Arkansas State University

## Student Oral Session 3 - Thu 1:40pm-2:40pm

### **FOGELMAN CLASSROOM BUILDING 262**

#### **Public Health**

**1:40-2:00 p.m.**

*Community Ideology, State Law, School Policy, and the Production of Massachusetts Public Sexual Education*  
Nykia Leach, Wheaton College

**2:20-2:40 p.m.**

*Disease Prevention Practices in Adolescent Females: A Microscopic Analysis of Water Quality, Sanitation Methods, and Perceptions of Vector-borne Illnesses in a Rural Region of the Dominican Republic*  
Sneha Krish, Virginia Commonwealth University

### **FOGELMAN CLASSROOM BUILDING 264**

#### **International Studies**

**1:40-2:00 p.m.**

*Education Opportunities For Migrants In Thailand*  
Tatyana Dejean, Long Island University

**2:00-2:20 p.m.**

*Exploring Precious Metal Mining in Peru Through Film*  
Madi Sachs, University of Minnesota, Duluth

**2:20-2:40 p.m.**

*Fair Trade: Successes and Shortcomings for Indigenous People in Peru*  
Margaret O'Connor, The George Washington University

### **FOGELMAN CLASSROOM BUILDING 265**

#### **International Studies**

**1:40-2:00 p.m.**

*Why Do States Comply with International Law*  
Samantha Danish, Susquehanna University

**2:00-2:20 p.m.**

*Work and Peace: Economic Opportunity as a Determinant of Political Stability in Sub-Saharan Africa, 1997-2014*  
Trevor Owens, Indiana University

**2:20-2:40 p.m.**

*The Rise of Tourism in Sothern Bali, Indonesia: The Balance Between Women's Economic Empowerment and Environmental Degradation*  
Olivia Alden, Long Island University

### **JONES HALL 200**

#### **Education**

**1:40-2:00 p.m.**

*Best Practices for Institutional Transformation in Serving Undocumented Students*  
Edith Melendez, Eastern Washington University

**2:00-2:20 p.m.**

*Bilingualism, Spanglish, and Phenomenon of Code-Switching*  
Casey Anthony, Juniata College

**2:20-2:40 p.m.**

*Breaking Barriers: English Language Learners and Technology in and Beyond the Classroom*  
Emily Ruggiero, State University of New York-Brockport

### **JONES HALL 212**

#### **Literature**

**2:00-2:20 p.m.**

*"Familial Relations in The Oresteia: Breaking Categories in the Struggle for Power"*  
Daniela Rodriguez, Carthage College

**2:20-2:40 p.m.**

*"Intention V. Result: "The Lady's Dressing Room" and Feminism"*  
Maggie Heaps, University of Central Oklahoma

### **JONES HALL 214**

#### **Literature**

**1:40-2:00 p.m.**

*Moths to Misogyny: The Influence of Feminism on the Male's Heroic Journey in The Great Gatsby*  
Erin Broberg, Black Hills State University

## Student Oral Session 3 - Thu 1:40pm-2:40pm

### **2:00-2:20 p.m.**

*Mr. Wind-Up Bird and The Prince of Denmark:  
Shakespeare's Hamlet as Influence in Murakami's The  
Wind-Up Bird Chronicle*  
Bridget Sellers, University of Tennessee at Knoxville

### **2:20-2:40 p.m.**

*Nevermore of Peace: Lost Cause as Malady in  
"Absalom, Absalom!"*  
Hunter Flynn, Loyola University Maryland

### **JONES HALL 218**

#### **Poetry & Creative Writing**

### **2:00-2:20 p.m.**

*Jules Verne, Grizzly Bears, and Minecraft: An  
Exploration of Exploration*  
Eliot Costic, Virginia Commonwealth University

### **JONES HALL 226**

#### **English**

### **2:00-2:20 p.m.**

*Culture and Training in Music-Narrative Cognition*  
Viktoria Teneqexhi, Michigan State University

### **2:20-2:40 p.m.**

*Daisy Buchanan: The Forces of Feminism*  
Tessa Burford, University of Nebraska at Kearney

### **JONES HALL 237**

#### **Education**

### **1:40-2:00 p.m.**

*Teaching Sexual Education to 21st Century Students*  
Brooke Rodriguez, The University of Findlay

### **2:00-2:20 p.m.**

*The Bridges and Barriers to Environmental Education  
on an ECO Campus*  
Amber Adams-Kuebler, Elon University

### **2:20-2:40 p.m.**

*The Effect of Both Per Pupil and Science Expenditure  
on Fifth Grade Science MCAS Scores in Three School  
Districts in Massachusetts*  
Kaitlin Kummer, Bridgewater State University

### **JONES HALL 239**

#### **English**

### **2:00-2:20 p.m.**

*The Education of the Monster*  
Abigail Kirby, Carthage College

### **JONES HALL 243**

#### **Philosophy & Ethics**

### **1:40-2:00 p.m.**

*An Ethical Analysis of Psychological Testing of Human  
Subjects Code of Conduct*  
Kirsten Duff, Morehead State University

### **2:00-2:20 p.m.**

*Bioethics and Depression: How Antidepressants May  
Decrease a Patient's Autonomy*  
Monica Maxino, Siena College

### **2:20-2:40 p.m.**

*Climate Change and Moral Obligations*  
Loni Taber, Eastern Washington University

### **JONES HALL 249**

#### **English**

### **1:40-2:00 p.m.**

*Mispereceptions: The Comic Use of the Gothic in Herman  
Melville's "Bartleby the Scrivener"*  
Mark Tyler, John Brown University

### **2:20-2:40 p.m.**

*Nudity and Femininity: Genre Analysis and 20th  
Century Art*  
Margaret Rippe, University of Wisconsin - La Crosse

### **MANNING HALL 202**

#### **Kinesiology & Exercise Science**

### **2:00-2:20 p.m.**

*Chronic Knee Injury and Performance of the Saut De  
Chat*  
Ashley King, Elon University

### **2:20-2:40 p.m.**

*Correlating Knee Flexion Angles and Shoulder Range of  
Motion During the Tennis Serve*  
Alexis Axtell, University of Kentucky

## Student Oral Session 3 - Thu 1:40pm-2:40pm

### **MANNING HALL 204**

#### **History**

**1:40-2:00 p.m.**

*Arguments Against Amalgamation: The Citizen's Council Battles Integration Through Language*  
Evelyn Kerns, Eastern Kentucky University

**2:00-2:20 p.m.**

*Arkansas' Newspaper War*  
Megan Prettyman, Hendrix College

**2:20-2:40 p.m.**

*Auguste and Jean-pierre Chouteau: The Two Princes of the Missouri River Fur Trade, 1794-1820*  
Luke Provenzano, University of Central Oklahoma

### **MANNING HALL 222**

#### **History**

**2:00-2:20 p.m.**

*Hail the Victorious Dead: A Comparative Analysis of the Creation and Maintenance of Collective Memory of the Great War in London, 1920 & 2015*  
Katherine Dickson, North Central College

**2:20-2:40 p.m.**

*History in Deed: Toward a Biography of Place*  
Jennifer Iiles, Stevenson University

### **MANNING HALL 318**

#### **Communications**

**1:40-2:00 p.m.**

*Differences Between Men's and Women's Communication*  
Olivia Godin, Eastern Connecticut State University

**2:00-2:20 p.m.**

*Effects of Live Tweeting on User Engagement in Premium Sporting Events*  
Bryan Anderson, Elon University

**2:20-2:40 p.m.**

*Encouraging Talk at a Wellness Bar*  
Aunteia Lovett, University of Central Oklahoma

### **MANNING HALL 320**

#### **Women, Gender, and Sexuality Studies**

**1:40-2:00 p.m.**

*Afropolitanism as National Identity: Unraveling the "Pre" and "Post" Dynamics in Decolonization*  
Tiwaladeoluwa Adekunle, University of Kentucky

**2:00-2:20 p.m.**

*Bodies on Display: An Analysis of the Intersection of Gender, Race, and Socioeconomic Status and Their Effects on Dancers*  
Alayna Williams, Mercer University

**2:20-2:40 p.m.**

*Bronze Roses, Pink Crosses, and Feminicide: The Art of Lament and Liberation in Ciudad Juárez*  
Elizabeth Cleary, St. Catherine University

### **MANNING HALL 332**

#### **Religious Studies**

**1:40-2:00 p.m.**

*Solomon and the Temple: the Theological Framework of the Psalms of Solomon*  
Wilson Whitener, St. Edward's University

**2:00-2:20 p.m.**

*The Decline of Moral Reasoning*  
Ashley Van Meter, Lubbock Christian University

**2:20-2:40 p.m.**

*The Effects of the Bori Cult on the Practice of Islam Among the Hausa of Africa*  
Clare Warrington, John Brown University

### **MANNING HALL 340**

#### **History**

**1:40-2:00 p.m.**

*The Supreme Court and Civil Rights from Plessy to Brown*  
Joe Rossi, Hendrix College

**2:00-2:20 p.m.**

*The War of The Two Kings: The Williamite War in Ireland of 1689 and the Formation of Parliamentary Sovereignty*  
Zachery Lau, University of Nebraska at Kearney

## Student Oral Session 3 - Thu 1:40pm-2:40pm

**2:20-2:40 p.m.**

*Through Pain and Sacrifice: The Emotional Outcry of the Citizens of New Ulm, Minnesota, 154 Years After the U.S.-Dakota War*

John Legg, Macon State College

### **MANNING HALL 413**

**Computer Science**

**1:40-2:00 p.m.**

*Controllable Weather Balloon*

Kerlin Michel, Florida International University

**2:00-2:20 p.m.**

*Cyber-Security Mapping of a Research Nuclear Reactor*

Charles Bales, University of Tulsa

### **MANNING HALL 417**

**Sociology**

**1:40-2:00 p.m.**

*The Third Reconstruction: A Discursive Analysis of the Moral Mondays Movement*

Alexander Skarr, University of Illinois at Springfield

**2:00-2:20 p.m.**

*Tombstone Tourism: Negotiating the Space Identity of the Cemetery as a Multi-use Community Venue*

Kristy Bowen, Wittenberg University

**2:20-2:40 p.m.**

*Understanding Changing Attitudes Toward Suicide Between 1985 and 2014 in the United States*

Yi Tong, City University of New York- Queens College

### **MANNING HALL 426**

**Philosophy & Ethics**

**2:00-2:20 p.m.**

*Why Factory Farms Are Morally Abhorrent*

Elizabeth Rhodes, Appalachian State University

**2:20-2:40 p.m.**

*With Thunder and Blood: Dismantling Elitism in Poverty-Related Environmental Discourse*

Shelby Roberts, The University of Virginia's College at Wise

### **MEEMAN JOURNALISM 106**

**Political Science**

**1:40-2:00 p.m.**

*Preemptive Prosecutions: How Fear of the Religious "Other" Drives Us to Abandon Constitutional Values*

Sarah Sturm, Luther College

**2:00-2:20 p.m.**

*Professional Qualifications of Women Serving in State Legislatures: The Impact of Education and Occupation*

Meghan Vogel, Xavier University

**2:20-2:40 p.m.**

*Proximity to Terrorism: An Impact Study on American Public Preferences*

Madison McCauley, Texas Christian University

### **MEEMAN JOURNALISM 112**

**Political Science**

**2:00-2:20 p.m.**

*Allegory of the Cave*

Mitchell Oliver, University of West Florida

**2:20-2:40 p.m.**

*Amped Up, Turning Out: Polarization's Impact on Voter Turnout*

Barrett Goodwin, Hendrix College

### **MEEMAN JOURNALISM 204**

**Law & Legal Studies**

**1:40-2:00 p.m.**

*Can Congress Restrict State-Sponsored Displays of Historically Oppressive Symbols?*

Casey Phillips, Ithaca College

**2:20-2:40 p.m.**

*Examining the Role of Race, Risk Assessments, and Preventative Sanctions in the Pretrial Justice System*

Christopher Rudolph, University of Wisconsin - La Crosse

## Student Oral Session 3 - Thu 1:40pm-2:40pm

### **PSYCHOLOGY AUDITORIUM A0200**

#### **Experimental Psychology**

**1:40-2:00 p.m.**

*College Students' Perceptions of Persuasive Writing and Essentialist Language*

Lauren Salig, Elon University

### **PSYCHOLOGY BUILDING 204**

#### **Behavioral Neuroscience**

**1:40-2:00 p.m.**

*Enrichment Effects on Object in Place Task Performance Are Due to Task Novelty Not Subject Age*

Hannah Johnson, Appalachian State University

**2:00-2:20 p.m.**

*Enrichment Influences Social Preference Behavior in Older Female and Male Adolescent Rats*

Holly Skinner, Appalachian State University

**2:20-2:40 p.m.**

*Study of Furoxans in a Murine Model of Ischemic Stroke*

Megan Post, University of Toledo

### **PSYCHOLOGY BUILDING 206**

#### **Clinical Psychology**

**1:40-2:00 p.m.**

*The Somatization of Mental Illness in Bangladeshi American Women*

Oneeka Khan, Macaulay Honors College at CUNY

**2:00-2:20 p.m.**

*Time for a Change: Examining Help-Seeking Behaviors in the First-Year Experience*

Mary-Margaret Koch, American University

### **PSYCHOLOGY BUILDING 230**

#### **Geography & Earth Sciences**

**1:40-2:00 p.m.**

*Analyzing P-Surge Exceedances to Improve Storm Surge Watches and Warnings*

Cody Yeary, Saint Cloud State University

**2:00-2:20 p.m.**

*Anthropogenic Climate Change on the Atlantic Meridional Overturning Circulation*

Kalley Swift, University of Wisconsin - River Falls

**2:20-2:40 p.m.**

*Assessing Global Adaptation Finance*

Beverly Harp, George Mason University

### **PSYCHOLOGY BUILDING 244**

#### **Geography & Earth Sciences**

**1:40-2:00 p.m.**

*The Spatial Relationship Between Lightning and CAPE*

Stephanie Bradshaw, Carthage College

**2:20-2:40 p.m.**

*Transport and Occurrences of Fecal Indicative Bacteria (FIB) in New York City Lakes*

Ace Vladimir Alcantara, City University of New York- York College

## Student Oral Session 4 - Thu 3:00pm-4:00pm

### **Student Oral Session 4 - Thu 3:00pm-4:00pm**

#### **ART AND COMMUNICATION 247**

##### **Music**

###### **3:00-3:20 p.m.**

*Adorno and Popular Music: A Case Study of Artistic Viability Within the Standardized Music Machine*  
Tanner Cassidy, North Central College

###### **3:20-3:40 p.m.**

*Dance Instruction Songs and Cultural Exchange*  
Elizabeth Karras, University of Illinois at Springfield

###### **3:40-4:00 p.m.**

*French Society Abroad: The Popularization of French Dance Throughout Europe, 1600-1750*  
Adam Rinehart, Cedarville University

#### **ART AND COMMUNICATION 257**

##### **Art History**

###### **3:00-3:20 p.m.**

*Discovering The Great Work of Carleton Watkins in A Journey Through Time*  
Teresa Richardson, Jacksonville University

###### **3:20-3:40 p.m.**

*Doodling Double Term Presidents of the Past: How We Can Use Doodles to Determine the Elite*  
Jordan Rockwell, Virginia Commonwealth University

#### **ART AND COMMUNICATION 310**

##### **Music**

###### **3:20-3:40 p.m.**

*The Hero of Hyrule: Musical Topics in The Legend of Zelda*  
Nicole Hamel, Kennesaw State University

#### **ART AND COMMUNICATION 314**

##### **Music**

###### **3:00-3:20 p.m.**

*Keepin' It in the Groove: A Study of Contemporary Fusion*  
Jacob Secor, University of North Carolina - Asheville

###### **3:20-3:40 p.m.**

*Manufactured Artistry: Kpop Through Baudrillard*  
Maria Braun, College of St Scholastica

###### **3:40-4:00 p.m.**

*Mastering Atonal Voice Leading as an Undergraduate: Utilizing Standard Curriculum in Learning Atypical Repertoire*  
Elizabeth Bemis, University of South Alabama

#### **COMMUNICATION AND FINE ARTS 124**

##### **Music**

###### **3:40-4:00 p.m.**

*Promise That You Will Sing About Me: Kendrick Lamar In Posterity*  
Brandon Apol, Cedarville University

#### **DUNN HALL 103 / 105**

##### **African American Studies**

###### **3:40-4:00 p.m.**

*Victims of Social Inequality: An Insight to Historical Events and Their Effect on African Americans*  
Fatima Albrehi, Wayne State University

#### **DUNN HALL 107**

##### **History**

###### **3:00-3:20 p.m.**

*Integrating into Society: Jews, Nationalism, and the World*  
Rebecca Szczupakiewicz, City University of New York-Brooklyn College

###### **3:20-3:40 p.m.**

*The Roots from Where Our Stories Grown: Hair Assists in Reclaiming the Black Identity*  
Olivia Britton, Union College

###### **3:40-4:00 p.m.**

*"Leave Your Jewels and Buy a Revolver": Irish Women, the Rising, and Nationalism*  
Heyley Bowman, University of Central Oklahoma

## Student Oral Session 4 - Thu 3:00pm-4:00pm

### **DUNN HALL 109**

#### **Architecture & Interior Design**

**3:00-3:20 p.m.**

*Chandigarh: A 21st Century Smart City?*  
Dhruvee Patel, Kennesaw State University

**3:40-4:00 p.m.**

*Constructed Reality: A Study in Perspective Through Virtual Reality*  
Jose Rodriguez, Kennesaw State University

### **DUNN HALL 119 / 121**

#### **Biological Engineering**

**3:00-3:20 p.m.**

*Application of Laser Etching and 3D Printed Polymers for Modeling Ice Vein Habitats*  
Taylor Oeschgger, Montana State University Bozeman

#### **Biology**

**3:40-4:00 p.m.**

*A Study on Use of Ichip Technology to Isolate Diverse Groups of Microorganisms*  
Pratima Thapaliya, University of Minnesota

### **DUNN HALL 123/125**

#### **Biology**

**3:00-3:20 p.m.**

*Extended-spectrum beta-lactamase-producing Enterobacteriaceae in North Georgia Water*  
Lindsay McCuen, University of North Georgia

**3:20-3:40 p.m.**

*Forces That Drive Low Complexity Region Evolution*  
Aaron Helander, Oakland University

**3:40-4:00 p.m.**

*Genetics of Reed Canary Grass (*Phalaris Arundinacea*) Populations at the Cedar Creek Ecosystem Science Reserve*  
Danielle Meyer, St. Catherine University

### **DUNN HALL 124**

#### **Cell & Molecular Biology**

**3:00-3:20 p.m.**

*Examining the Effect of Convallatoxin, a Cardiac Glycoside, on the Growth of Colorectal Cancer Cells*  
Sarah Anderson, Belmont University

### **DUNN HALL 129**

#### **Cellular Neuroscience**

**3:00-3:20 p.m.**

*Determining the Expression of Dpr and DIP Proteins in A08a and Dbd Neurons*  
Rebekah Rashford, University of Maryland, Baltimore County

**3:20-3:40 p.m.**

*Exogenous Adenosine Protects BV-2 Microglial Cells in Simulated Ischemia*  
Anya Kim, University of Iowa

### **DUNN HALL 225 / 227**

#### **Chemistry**

**3:00-3:20 p.m.**

*Optimization of Laser Ablation-Laser Induced Fluorescence for Arsenic Detection in Steel*  
Patrick Tribbett, Arkansas State University

**3:20-3:40 p.m.**

*Single-Electron Activation of CO<sub>2</sub> on Graphene-Supported ZnO Nanoclusters: Effects of Doping in the Support*  
Stephen Sekouopoulos, Valparaiso University

**3:40-4:00 p.m.**

*Sonochemical Synthesis of Superparamagnetic Nanoparticles*  
Amanda Miller, Texas Tech University

### **DUNN HALL 233**

#### **Ecology & Organismal Biology**

**3:00-3:20 p.m.**

*Does Wolbachia Cause Higher Queen Development in *Temnothorax longispinosus* When Nutrition Is Low?*  
Samantha Phelps, Russell Sage College

## Student Oral Session 4 - Thu 3:00pm-4:00pm

**3:20-3:40 p.m.**

*Effect of Drought Conditions on Culex Mosquitoes*  
Faurest Nelson Wicks, Eastern Washington University

**3:40-4:00 p.m.**

*Effects of Spring Moisture on Ventenata dubia Abundance in Eastern Washington*  
Rachael Hamby, Eastern Washington University

### **DUNN HALL 249 / 251**

#### **Biology**

**3:00-3:20 p.m.**

*Sequencing Reveals Integral Proteins in Arion Subfuscus Slug Glue*  
Cassandra Papaleo, Ithaca College

**3:20-3:40 p.m.**

*Quantitative Trait Locus Analysis of Cold Tolerance in Maize*  
Raeann Goering, Hamline University

**3:40-4:00 p.m.**

*The Chronobiology of Fertility*  
Mugdha Mokashi, University of Alabama at Birmingham

### **DUNN HALL 351**

#### **Health Sciences**

**3:20-3:40 p.m.**

*Female Athlete Triad and Incidence of Phantom Pain in Adolescent Female Athletes Following Tibial Stress Fracture*  
Charly Sager, Virginia Commonwealth University

**3:40-4:00 p.m.**

*Harmonization of Sensor Measurements to Support Exposomic Research*  
Nicole Burnett, University of Utah

### **ENGINEERING SCIENCE BUILDING 220**

#### **Electrical Engineering**

**3:00-3:20 p.m.**

*Carbon Nanotube Inductors*  
Eric Williams, Eastern Washington University

**3:20-3:40 p.m.**

*Conflict Forecasting Using Deep Neural Architecture*  
J. Grayson Cupit, University of Memphis

### **ENGINEERING SCIENCE BUILDING 222**

#### **Mechanical Engineering**

**3:00-3:20 p.m.**

*Control of Asymmetric Periodic Motions in a Duffing Oscillatory Circuit*  
Xin Hu, Midwestern State University

**3:40-4:00 p.m.**

*Determination of Flow in Whistle-Based Woodwind Instruments*  
Laurie King, Norwich University

### **ENGINEERING SCIENCE BUILDING 311**

#### **Mechanical Engineering**

**3:00-3:20 p.m.**

*Usability of Humanoid Robots in Autism Therapy Using a Tablet Controller*  
Jennifer Leaf, Eastern Washington University

**3:20-3:40 p.m.**

*Vapor-Liquid-Solid Growth of One-Dimensional Nanostructures*  
Federico Gasbarri, Lamar University

### **FOGELMAN CLASSROOM BUILDING 119**

#### **Business/Finance/Accounting**

**3:20-3:40 p.m.**

*Bound to Fail: The Coming Disruption of the College Textbook Market*  
Brendan Brozen, Fordham University

**3:40-4:00 p.m.**

*Impact of Updates to 4 Areas of FASB Codification*  
Katelyn Woten, Black Hills State University

### **FOGELMAN CLASSROOM BUILDING 125**

#### **Marketing**

**3:00-3:20 p.m.**

*Exploring Millennials' Social Media Usage and Green Consumption*  
Stephanie Bedard, Elon University

## **Student Oral Session 4 - Thu 3:00pm-4:00pm**

### **3:20-3:40 p.m.**

*Fighting Student Hunger*

Emily Faulds, Westmoreland County Community College

### **3:40-4:00 p.m.**

*How Complexity Induced Construal Affects the Perception of Advertising Messages*

Gabrielle Corner, Elon University

## **FOGELMAN CLASSROOM BUILDING 127**

### **Economics**

#### **3:20-3:40 p.m.**

*Crossing Frontiers on Economics: The Determinants of Economics Major Choice Among Domestic and International Female Students*

Alexandre Baude, Pitzer College

#### **3:40-4:00 p.m.**

*Debunking Welfare Myths: Factors That Lead Low-income Women to Participate in Government Programs*

Gabrielle Minassian, Lafayette College

## **FOGELMAN CLASSROOM BUILDING 131**

### **Economics**

#### **3:00-3:20 p.m.**

*The Effect of Health Status on Economic Growth*

Desiree Domini, Pacific Lutheran University

#### **3:20-3:40 p.m.**

*The Effect of the Hemlock Wooly Adelgid on Property Values in Watauga County, NC*

Ben Sullivan, Appalachian State University

#### **3:40-4:00 p.m.**

*The Effectiveness of the Best-Practices Approach to Getting Institutions Right in African Countries*

Neysa Braimah, Lafayette College

## **FOGELMAN CLASSROOM BUILDING 133**

### **Microbiology & Immunology**

#### **3:20-3:40 p.m.**

*Environmental Impact on Mycobacteriophage Isolation and Characterization*

Shea Morris, Georgia College and State University

## **FOGELMAN CLASSROOM BUILDING 259**

### **Nursing**

#### **3:00-3:20 p.m.**

*Predictors of Mental Health-Related to Quality of Life in Adults with Type 2 Diabetes*

Aminata Kamara, University of Pittsburgh School of Nursing

#### **3:20-3:40 p.m.**

*Self Efficacy and Moral Distress in Bachelor of Science Nursing Students*

James Bolt, Abilene Christian University

#### **3:40-4:00 p.m.**

*Self-Efficacy and Self-Management in Children Transitioning to Insulin Pumps*

Anesha Lee, University of South Alabama

## **FOGELMAN CLASSROOM BUILDING 261**

### **Physics**

#### **3:00-3:20 p.m.**

*Investigation of Emittance Analysis Methods Using the MuCool Test Area Beamline*

Alicia Casacchia, North Central College

#### **3:40-4:00 p.m.**

*Novel Tests of Gravity Below Fifty Microns*

Jeremy Johnson, Humboldt State University

## **FOGELMAN CLASSROOM BUILDING 262**

### **Public Health**

#### **3:20-3:40 p.m.**

*Evaluation of the Utility of the American College Health Association's National College Health Assessment II Survey for Identification of Health Behaviors Associated with Academic Performance*

David Nguyen, Eastern Washington University

#### **3:40-4:00 p.m.**

*Evidence of Critical Slowing Down Prior to Malaria Resurgence in Kericho, Kenya. Odum School of Ecology, University of Georgia, Athens, GA*

Mallory Harris, University of Georgia

## Student Oral Session 4 - Thu 3:00pm-4:00pm

### **FOGELMAN CLASSROOM BUILDING 264**

#### **International Studies**

**3:00-3:20 p.m.**

*Forecasting the Coming Storm: A Discourse Analysis on the Construction of Extreme Weather Threats in Central America*

Erin Campbell, American University

**3:20-3:40 p.m.**

*German Language Acquisition for Refugees, Schöneberg-Berlin Case Study*

Mary Kate Mueller, Long Island University

**3:40-4:00 p.m.**

*Grammar and Agency in U.S. Media Constructions of Latin American Immigrants*

Bill Kakenmaster, American University

### **FOGELMAN CLASSROOM BUILDING 265**

#### **International Studies**

**3:00-3:20 p.m.**

*The Road to Paris 2015: An In-depth Look at Multilateral Negotiation Strategy*

Kay Tyson, Hendrix College

**3:20-3:40 p.m.**

*The Role Of Community Activism In Integrating Immigrants In Spain*

Erin Washington, Illinois College

### **FOGELMAN CLASSROOM BUILDING 267**

#### **International Studies**

**3:00-3:20 p.m.**

*Orthostatic Hypotension in Patients with Sensory and Sensorimotor Peripheral Neuropathy*

Anup Chalia, White Station High School, University of Memphis2958]

### **JONES HALL 200**

#### **Education**

**3:00-3:20 p.m.**

*Bright/Bleak Futures: The Link Between Socioeconomic Status and Quality Education*

William Gottlob, Black Hills State University

**3:20-3:40 p.m.**

*Building Faculty-Student Partnerships Through Community Engaged Classes*

Katherine Burt, Siena College

**3:40-4:00 p.m.**

*Causes of Unintentional Segregation in Low-Income Charter Schools*

Lauren Prather, Carthage College

### **JONES HALL 212**

#### **Literature**

**3:00-3:20 p.m.**

*"Reduced Circumstances": The Power of Female Knowledge and Public Memory*

Samantha Swan, State University of New York-Brockport

**3:20-3:40 p.m.**

*A Critique of American Reality T.V. in Collins' The Hunger Games*

Madison Choi, Chaminade University of Honolulu

**3:40-4:00 p.m.**

*A Gender Study Through the Lens of American Poetry*

Bethany Kuiken, Houghton College

### **JONES HALL 214**

#### **Literature**

**3:00-3:20 p.m.**

*One Legendarium to Rule Them All: J.R.R. Tolkien's The Silmarillion*

Bailee Christiansen, Dixie State College of Utah

**3:20-3:40 p.m.**

*Our Islands, Our Stories: Narrative Voice in Kristiana Kahakauwila's "This Is Paradise" (Abstract)*

Amanda Monke, University of Illinois at Springfield

**3:40-4:00 p.m.**

*Regulating the Bodies of the Body Politic: Chaos, Homosexuality, and Mutiny in Herman Melville's Billy Budd*

Samuel Hersh, Kent State University

## Student Oral Session 4 - Thu 3:00pm-4:00pm

### **JONES HALL 218**

#### **English**

**3:40-4:00 p.m.**

*The Burden of Emotions: The Manipulation of Love and Fear in Shakespeare's Julius Cesar and George Lucas's Star Wars Episode III: Revenge of the Sith*  
T'quavious Johnson, Anderson College

#### **Poetry & Creative Writing**

**3:00-3:20 p.m.**

*The Absorbed World*  
Terin Weinberg, Salisbury University

**3:20-3:40 p.m.**

*The Therapeutic Benefits of Keeping a Daily Journal*  
Grace MacKay, Houghton College

### **JONES HALL 226**

#### **English**

**3:20-3:40 p.m.**

*Destroy to Create: The Young Female Artist's Formation of Personal Identity*  
Olivia Whitney, Carthage College

**3:40-4:00 p.m.**

*Developing a Theology of Darkness: J.R.R. Tolkien & C.S. Lewis on Caves*  
Kyriana Lynch, John Brown University

### **JONES HALL 237**

#### **Education**

**3:00-3:20 p.m.**

*The Effect of Pedagogical Approach to Content Delivery on Student Success Within the Context of an Introductory and Foundational STEM Course*  
Jessica Mundy, Radford University

**3:20-3:40 p.m.**

*The Effect of Teaching Strategies on Student Engagement in High School Science*  
Bridget Alaniz, Midwestern State University

**3:40-4:00 p.m.**

*The Effects of Social-Emotional Learning on Children With Adverse Childhood Experiences*  
Danielle O'Reilly, Dominican University of California

### **JONES HALL 239**

#### **English**

**3:00-3:20 p.m.**

*The Failings of Directive and Nondirective Etymology*  
Tyler Begg, Wittenberg University

**3:20-3:40 p.m.**

*The Foci of Race and Religion Amongst Authors William Apess, Mary Rowlandson, and Zitkala Ša*  
Abigail Powers, Western Carolina University

**3:40-4:00 p.m.**

*The Futility of Human Action and the Need for the Divine: Self-Sacrifice in the Poetry of T.S. Eliot*  
Caitlyn Alario, Valparaiso University

### **JONES HALL 243**

#### **Philosophy & Ethics**

**3:40-4:00 p.m.**

*Covenantal Justice*  
Adam Henley, John Brown University

### **JONES HALL 249**

#### **English**

**3:20-3:40 p.m.**

*Painting the Whole Picture: Understanding the Many Functions of Art in Literature*  
Emily Gray, University of Tennessee at Chattanooga

**3:40-4:00 p.m.**

*Performing Identity in Oscar Wilde's The Picture of Dorian Gray*  
Heather Zima, Carthage College

### **MANNING HALL 202**

#### **Kinesiology & Exercise Science**

**3:00-3:20 p.m.**

*Effects of Aging, Fall History, and Fear of Falling on Lower Extremity Muscular Strength and Muscle Architectural Characteristics*  
Claire Dull, University of Nebraska at Kearney

## Student Oral Session 4 - Thu 3:00pm-4:00pm

### **3:20-3:40 p.m.**

*Effects of Lower Extremity Instability on Upper Extremity Throwing Kinematics*  
Gabrielle Gilmer, Auburn University

### **3:40-4:00 p.m.**

*Effects of Virtual Reality-Based Training on Upper Body Movement and Activities of Daily Life in Older Adults with Parkinson's Disease*  
Adanna Cheek, Radford University

## **MANNING HALL 204**

### **History**

### **3:40-4:00 p.m.**

*Big History: Latest Intellectual Fad or Toxic Neoliberal Ideology?*  
Elizabeth Savant, University of St. Francis

## **MANNING HALL 222**

### **History**

### **3:20-3:40 p.m.**

*India Through the British Lens: British Perceptions of India in the Nineteenth Century*  
Megan Owens, University of Evansville

### **3:40-4:00 p.m.**

*Lessons from California: Josiah Dwight Whitney, Legitimacy in Scientific Exploration, and the Failed California Geological Survey, 1860-1874.*  
Autymn Garvisch, Dominican University of California

## **MANNING HALL 318**

### **Communications**

### **3:00-3:20 p.m.**

*Establishing an Online Presence for a Rural Business: Creating Congruency Between Internet Strategies and Brand to Enhance Audience Reach*  
Brittany Mlynek, Juniata College

### **3:40-4:00 p.m.**

*Food System Design Inquiry: Counter-Systeming the Wicked Problem*  
Mikayla Lydon, Ithaca College

### **Computer Science**

### **3:20-3:40 p.m.**

*Lyrical Sentiment Has Decreased Over the Past 50 Years*  
Alexander Lacey, Ohio State University

## **MANNING HALL 320**

### **Women, Gender, and Sexuality Studies**

### **3:00-3:20 p.m.**

*Can Pornography Consumption Be Beneficial For Romantic Relationships?*  
Jordyn Randall, University of Nebraska at Kearney

### **3:20-3:40 p.m.**

*Chinese American Female Identity*  
Christine Lee, Brooklyn College

## **MANNING HALL 332**

### **Religious Studies**

### **3:00-3:20 p.m.**

*The Impact of a Youth Theology Institute on Spiritual and Moral Discernment in Adolescents*  
Jamie Stewart, Lubbock Christian University

### **3:20-3:40 p.m.**

*The Third Gender: Investigating Authority, Legitimacy, and the 21st Century in India's Hijra Community*  
Justin Brown, Elon University

### **3:40-4:00 p.m.**

*Thomas Aquinas and the Resurrected Body*  
Victoria Burdette, Winthrop University

## **MANNING HALL 340**

### **History**

### **3:00-3:20 p.m.**

*Velleius' Tiberius: A Literary Analysis of the Extent a Soldier Will Go to Preserve the Reputation of His Deranged Leader*  
Maddie Parrish, University of North Carolina at Greensboro

## Student Oral Session 4 - Thu 3:00pm-4:00pm

**3:20-3:40 p.m.**

*Where the Wild Things Are: Examining the Hercynian Animals in Julius Caesar's Gallic Wars*  
Elizabeth Ussery, University of Central Oklahoma

### **MANNING HALL 413**

**Computer Science**

**3:20-3:40 p.m.**

*Efficient and Scalable Protocol for Mobile Ad Hoc Networks*  
Anatoliy Zinovyev, George Mason University

**3:40-4:00 p.m.**

*Ensuring Fairly Timed Network Communication*  
James Andrus, The Citadel

### **MANNING HALL 417**

**Sociology**

**3:20-3:40 p.m.**

*Utah Valley University Leadership Classes and Motivation*  
Camron Robinson, Utah Valley University

**3:40-4:00 p.m.**

*What's Wrong with Being Colorblind? the Role of Social Dominance in Adopting Racial Attitudes*  
Alyssa Milosz, Trinity Christian College

### **MANNING HALL 426**

**Religious Studies**

**3:00-3:20 p.m.**

*Muslim Women: A French Provocation*  
Nora Hand, Lafayette College

**3:20-3:40 p.m.**

*A Comparative Analysis of the Sociological Construction of Heresy as Exhibited Through Marguerite Porete and Charles Curran*  
Amelia Giancarlo, Rhodes College

**3:40-4:00 p.m.**

*All Roads Lead to the Reformation: the Protestant Reformation, Natural Philosophy, and the Rise of Science*  
Wilson Whitener, St. Edward's University

### **MEEMAN JOURNALISM 106**

**Political Science**

**3:20-3:40 p.m.**

*Puerto Rico: Crisis and a Renewed Case for Self Determination*  
Brandon Vick, Eastern Washington University

**3:40-4:00 p.m.**

*Radicalization of the Redneck*  
Kadijah Almarales, Southern Nazarene University

### **MEEMAN JOURNALISM 112**

**Political Science**

**3:20-3:40 p.m.**

*Assessing Academic Accessibility at California University of Pennsylvania*  
Claudia Pehowic, California University of Pennsylvania

**3:40-4:00 p.m.**

*Candidate Positioning In U.S. House Elections: The Case of Donald Trump*  
Jason Altabet, University of Rochester

### **MEEMAN JOURNALISM 204**

**Law & Legal Studies**

**3:00-3:20 p.m.**

*Fourth Amendment Implications on the Search of a Smartphone*  
Joshua Marshall, Ithaca College

**3:20-3:40 p.m.**

*From Victim to Victimizer: The Case of Dominic Ongwen*  
Nicole Ang, Ithaca College

**3:40-4:00 p.m.**

*Hazardous Chemical Dumping*  
Shannon Davis, Ithaca College

## Student Oral Session 4 - Thu 3:00pm-4:00pm

### **PSYCHOLOGY AUDITORIUM A0200**

#### **Experimental Psychology**

**3:00-3:20 p.m.**

*Depression and Aggression in Children: Parent Perspective*

Mayra Ortega, St. Edward's University

**3:20-3:40 p.m.**

*Dissociating Visual Neglect and Neglect Dyslexia*

*Following Stroke*

Margaret Moore, Indiana University

**3:40-4:00 p.m.**

*Drink Up: A Closer Look at Cognitive Factors and Their Relationship with Habit and Behavior Change in the Context of Drinking Water for Improved Health in Emerging Adults*

Olivia Godfrey, University of North Carolina - Asheville

### **PSYCHOLOGY BUILDING 204**

#### **Behavioral Neuroscience**

**3:00-3:20 p.m.**

*The Effects of Diet and Exercise on Brain-Derived Neurotrophic Factor and Activity-Regulated Cytoskeletal Protein in Rats Following a Working Memory Task*

Raven Davis, University of Memphis

**3:20-3:40 p.m.**

*The Nature of Neural Activity in Hippocampus Evoked by an Object in Place Task*

Meghan Pavelka, Appalachian State University

### **PSYCHOLOGY BUILDING 206**

#### **Clinical Psychology**

**3:20-3:40 p.m.**

*Us vs Them: The Impact of Viral Footage of Police Shootings on Civilian and Law Enforcement Populations*

Imani Rivers, Clark Atlanta University

#### **Sociology**

**3:40-4:00 p.m.**

*Women's Involvement in the Inside Out Prison Exchange Program*

Emily Grubbs, University of Toledo

### **PSYCHOLOGY BUILDING 230**

#### **Geography & Earth Sciences**

**3:00-3:20 p.m.**

*Bioaccumulation of PCB and Trace Metals in Fish from Utah Lake*

Victor Sanjinez, Utah Valley University

**3:20-3:40 p.m.**

*Capturing the Lake Michigan Nearshore Ice Complex: The Development of Photogrammetric Field Methods*

James Van Eerden, University of Wisconsin - Milwaukee

**3:40-4:00 p.m.**

*Characterization of Aquatic Humic Substances in the Potomac River Watershed*

Allison O'Neill, George Mason University

### **PSYCHOLOGY BUILDING 244**

#### **Geography & Earth Sciences**

**3:00-3:20 p.m.**

*Unmanned Aerial Systems Utilizing Multispectral Techniques to Classify Wild Oyster Reefs*

Owen Nicely, Jacksonville University

**3:20-3:40 p.m.**

*Water Availability and Access: Household Water Use in Samburu, Kenya*

Holly Cox, Colorado State - Colorado State University-Cooperative Extension- Jefferson Co

**3:40-4:00 p.m.**

*When Oceans Rise: Causes and Impacts of Sea Level Rise in the Pacific Islands*

Elayne Apol, Dordt College

## Student Oral Session 5 - Fri 9:00am-10:00am

### **Student Oral Session 5 - Fri 9:00am-10:00am**

#### **ART AND COMMUNICATION 247**

##### **Visual Arts**

**9:00-9:20 a.m.**

*Feminist Zine Culture in Los Angeles*  
Maria Carmier, Mount Saint Mary's University

**9:20-9:40 a.m.**

*Here Is Not Here*  
Daniel Berry, Colgate University

**9:40-10:00 a.m.**

*Methods Used to Produce Waterscape Photographs:  
Filters Versus Digital Post-Processing*  
Ryan Hill, Virginia Commonwealth University

#### **ART AND COMMUNICATION 257**

##### **Art History**

**9:00-9:20 a.m.**

*Examining Austin Peay State University's Permanent Art Collection: Rediscovering the Jim and Nan Robertson Photographs*  
Sara Straussberger, Austin PEAY State University

**9:20-9:40 a.m.**

*Imagery in the Congo: Provocative and Emotional Elements Forward the Movement*  
Meredith Hutchings, State University of New York-Brockport

**9:40-10:00 a.m.**

*In the Beginning: Mayan Ceramics and Comparative Religion*  
Laurel Diciuccio, Anderson College Rainey Annex

#### **ART AND COMMUNICATION 310**

##### **Graphic Design**

**9:00-9:20 a.m.**

*Are E-cigarettes Just as Bad as Regular Cigarettes?*  
Synclaire Moffatt, University of the Pacific

**9:40-10:00 a.m.**

*Deconstructing Values of the Everyday Object*  
Anna Olinger, Iowa State University

#### **COMMUNICATION AND FINE ARTS 124**

##### **Dance History and Theory**

**9:00-9:20 a.m.**

*Dance Education in Low Socio Economic Environments*  
Rebekah Sauls, Kennesaw State University

**9:20-9:40 a.m.**

*Spectacular Spaces of Consumption*  
Ellen Watkins, Kennesaw State University

**9:40-10:00 a.m.**

*The Jam: The Collaboration of Music and Dance Through Video*  
Sarah Givens, University of Southern Mississippi

#### **DUNN HALL 103 / 105**

##### **African American Studies**

**9:00-9:20 a.m.**

*White Racial Formation In William Attaway's "Blood On The Forge"*  
Samuel Clendenning, Occidental College-

#### **DUNN HALL 107**

##### **Anthropology**

**9:00-9:20 a.m.**

*Performance and Perception of Gender Transgressions in Japanese Virtual Markets*  
Abigail Spanier, Wheaton College

**9:40-10:00 a.m.**

*Responding to Zika: Community Health Workers and the Politics of Care in Nicaragua*  
Peter Lee, Brooklyn College

#### **DUNN HALL 109**

##### **Architecture & Interior Design**

**9:00-9:20 a.m.**

*Floor Vibration Serviceability: Evaluation and Control*  
Kevin Duke, Virginia Polytechnic Institute & State University

**9:20-9:40 a.m.**

*The Fenestration as Educator of the Exterior*  
Ida Pruitt, The Cooper Union

## Student Oral Session 5 - Fri 9:00am-10:00am

### **DUNN HALL 119 / 121**

#### **Biology**

**9:00-9:20 a.m.**

*Improving Bull Trout (*Salvelinus confluentus*) Passage at Dams: Testing the Efficacy of Three Fish Ladder Attractants Using Brook Trout (*Salvelinus fontinalis*) as a Surrogate Species*

Ashley Bromberg, Eastern Washington University

**9:20-9:40 a.m.**

*A Common Garden Herbicide Inhibits Tunneling Behavior in Harvester Ants*  
Joseph Elfrink, Webster University

**9:40-10:00 a.m.**

*A Comparative Study of Capture Behaviors Between Domesticated and Wild Mice*  
Courtney Kourie, Ashland University

### **DUNN HALL 123/125**

#### **Biology**

**9:00-9:20 a.m.**

*Genomic Analysis: A Reflection on Biology, Counseling, and Ethics*

Madeleine Tjoelker, Trinity Christian College

**9:20-9:40 a.m.**

*Geometric Morphometrics of Median Fins in Basal Bony Fishes*  
Austin Parrish, Eastern Illinois University

**9:40-10:00 a.m.**

*Hairy-related 9 (*her9*) and Vasculogenesis in the Vertebrate Retina*  
Vince Gouge, University of Kentucky

### **DUNN HALL 124**

#### **Cell & Molecular Biology**

**9:00-9:20 a.m.**

*Ginkgo biloba as a Potential Neuroprotectant for Stroke*  
Kelcy McIntyre, Cedar Crest College

**9:20-9:40 a.m.**

*Hairy Roots of *Bixa orellana* as a Platform for the Study of Delta-tocotrienol Bioproduction and Anti-inflammatory Activity*

Jarrod Creameans, Arkansas State University

**9:40-10:00 a.m.**

*Harnessing the Plant Lectin RTB for Improved Delivery of Therapeutic Fish Cytokine Interleukin-22*  
Brandi Mize, Arkansas State University

### **DUNN HALL 129**

#### **Cellular Neuroscience**

**9:00-9:20 a.m.**

*Role of USP14 in the Degradation of Aggregate-Prone Proteins*

Tina Tian, University of Alabama at Birmingham

**9:20-9:40 a.m.**

*$\beta$ -amyloid Aggregation in Alzheimer's Neurodegeneration: Using *Bacillus subtilis Natto* to Degrade *E. coli* Induced Amyloids*

Monika Devanaboyina, Virginia Commonwealth University

### **DUNN HALL 225 / 227**

#### **Chemistry**

**9:00-9:20 a.m.**

*Speedy Breedy Analysis in Quantification of *Saccharomyces cerevisiae* Cell Concentrations*  
Boukar Faye, Appalachian State University

**9:20-9:40 a.m.**

*Synthesis and Antibacterial Studies of Naphthalene Containing Pyrazole-derived Hydrazones*  
Evan Delancey, Arkansas State University

**9:40-10:00 a.m.**

*Synthesis and Characterization of a 4-(*N,N*-dimethylamino) Phthalimide-Substituted Amino Acid, a Polarity-Sensitive Fluorophore*  
Stephen Sekoulopoulos, Valparaiso University

## Student Oral Session 5 - Fri 9:00am-10:00am

### **DUNN HALL 233**

#### **Ecology & Organismal Biology**

**9:00-9:20 a.m.**

*Evolution of Genome Size in Snapping Shrimp (Family Alpheidae)*

Dylan Gnatz, Seattle University

**9:20-9:40 a.m.**

*Hungry Hungry House Sparrows: Communicating Need in Passer Domesticus*

Olivia Utley, University of Kentucky

**9:40-10:00 a.m.**

*Nutrient Cycling in a Human Dominated Coastal Ecosystem*

Brooke Blosser, North Carolina State University

### **DUNN HALL 249 / 251**

#### **Biology**

**9:00-9:20 a.m.**

*The Evolution of Human Pregnancy*

Kevin Jones, Montana State University Bozeman

**9:20-9:40 a.m.**

*The Expression of Marchantia polymorpha AMT Genes in a Mutant Strain of Saccharomyces Cerevisiae*

Livianna Myklebust, St. Catherine University

### **DUNN HALL 351**

#### **Health Sciences**

**9:00-9:20 a.m.**

*Heating Things Up to Improve Type 2 Diabetes*

Lanazha Belfield, Winston-Salem State University

**9:20-9:40 a.m.**

*Marketing an Exercise Program Through Active Participation by the Target Audience*

Dana Rodriguez, Radford University

**9:40-10:00 a.m.**

*Maternal Nicotine Exposure Prior to and During Pregnancy and Nursing Increases Offspring Obesity Risk*

Joshua Preston, University of Kentucky

### **ENGINEERING SCIENCE BUILDING 218**

#### **Biomedical Engineering**

**9:40-10:00 a.m.**

*In Situ Quantification of Adsorbed Human Serum Proteins on Electrospun Polydioxanone Templates*

Lauren Wilson, University of Memphis

### **ENGINEERING SCIENCE BUILDING 220**

#### **Electrical Engineering**

**9:00-9:20 a.m.**

*Emergency Gsm Network for Disaster Rescue Operations*

ERIN BRATU, University of Mississippi

**9:20-9:40 a.m.**

*Evaluation and Characterization of Laser Treated Poly(methyl Methacrylate) Substrate*

Israel Palacios, University of Central Oklahoma

### **ENGINEERING SCIENCE BUILDING 222**

#### **Mechanical Engineering**

**9:00-9:20 a.m.**

*Determination of Specific Heat for a Compound RTV-655 Polyimide Aerogel Material*

Ken Mitchell, University of Memphis

**9:20-9:40 a.m.**

*Development of a Hybrid Rocket to Achieve Precise Altitudes*

Daniel Dyck, Embry - Riddle Aeronautical University

**9:40-10:00 a.m.**

*Diffuser Optimization for Harnessing Hydrokinetic Energy*

Caleb Harris, University of Memphis

### **ENGINEERING SCIENCE BUILDING 311**

#### **Biomedical Engineering**

**9:00-9:20 a.m.**

*Effects of Harness Pretensioner Loading on Pediatric Subjects Explored Through Finite Element Simulation*

Evan Bisirri, Drexel University

## **Student Oral Session 5 - Fri 9:00am-10:00am**

**9:20-9:40 a.m.**

*Extracellular Matrix Improves the in Vitro Cytocompatibility of Titanium*  
Anindita Das, University of Central Oklahoma

### **Electrical Engineering**

**9:40-10:00 a.m.**

*Impact of Coupled Fiber End Cleanliness on Bit Error Rate of Standard Multimode Optical Cable*  
Kevin Puett, Western Carolina University

### **FOGELMAN CLASSROOM BUILDING 119**

#### **Business/Finance/Accounting**

**9:00-9:20 a.m.**

*Interest Rate Projections*  
Taulant Gashi, Ithaca College

**9:20-9:40 a.m.**

*Leaning Out the Education System*  
Katrina Schiedemeyer, University of Wisconsin - Oshkosh

### **FOGELMAN CLASSROOM BUILDING 125**

#### **Marketing**

**9:00-9:20 a.m.**

*How The Globalization Of Western Beauty Standards Through Marketing Has Effected Chinese Women of the Millennial Era*  
Savannah Worcester, University of Memphis

**9:20-9:40 a.m.**

*Increasing International Enrollment at UW-P*  
Anthony Domanico, University of Wisconsin - Parkside

### **FOGELMAN CLASSROOM BUILDING 127**

#### **Economics**

**9:00-9:20 a.m.**

*Demographic Transition, Family Structure, and Elderly Care: Applying the Lessons of Singapore to Iran*  
Erik Dale, Hamline University, St. Paul

**9:20-9:40 a.m.**

*Does Financial Aid Impact Student Success at Regional Comprehensive Universities in the U.S.? A Panel Data Approach*  
Donya Quarnstrom, Eastern Washington University

### **FOGELMAN CLASSROOM BUILDING 131**

#### **Economics**

**9:00-9:20 a.m.**

*The Effects of Immigration on the Low-Skilled Labor Force in the US*  
Joshua Silver, Lafayette College

### **FOGELMAN CLASSROOM BUILDING 133**

#### **Microbiology & Immunology**

**9:20-9:40 a.m.**

*Isolating Novel Bacteria from the Cecum of a Hibernating Ground Squirrel*  
Sarah Dettle, University of Minnesota, Duluth

**9:40-10:00 a.m.**

*Long-chain Acyl-CoA Synthetase (ACSL) Blockade in Cell Lines of Diverse Host Species Has Unique Effects on Chlamydia Trachomatis Growth*  
Ian Wolf, Ithaca College

### **FOGELMAN CLASSROOM BUILDING 259**

#### **Nursing**

**9:00-9:20 a.m.**

*Skin-to-Skin Care During Cesarean Births: A Mother's Fears and Expectations*  
Kristen Bertrand, University of Alabama in Huntsville

**9:20-9:40 a.m.**

*Sleep in the Caregivers of Children with Type 1 Diabetes*  
Anna Allende, University of Pittsburgh School of Nursing

**9:40-10:00 a.m.**

*The Experience of Disease-Related Stigma Among Ebola Survivors in a Western Uganda Community*  
Jeanette Spanjers, University of Minnesota, Twin Cities

## Student Oral Session 5 - Fri 9:00am-10:00am

### **FOGELMAN CLASSROOM BUILDING 261**

#### **Physics**

**9:00-9:20 a.m.**

*Optical Properties of Graphene-polymer Matrix Composite: Determining Composition Via Back Scattering Light Spectroscopy*  
Larry Baker, University of Memphis

**9:20-9:40 a.m.**

*Optimization of Multiple-Cavity Systems for Dark Matter Axion Searches*  
Asiyah Din, Indiana University

**9:40-10:00 a.m.**

*Protein Hydrogel Dynamics Described Using Force Spectroscopy*  
Kirill Shmilovich, University of Wisconsin - Milwaukee

### **FOGELMAN CLASSROOM BUILDING 262**

#### **Public Health**

**9:00-9:20 a.m.**

*Examining Reallocation of Routine Dental Procedures: Using Dental Practitioners to Perform Routine Procedures in Order to Unburden Lower Socioeconomic Classes*  
Argie Limberis, Virginia Commonwealth University

**9:20-9:40 a.m.**

*Exploring the Fiscal & Societal Impact of a Chronic Disease Management Program*  
Megan Woody, University of North Carolina, Charlotte

**9:40-10:00 a.m.**

*Factors Affecting Super-spreading of Epidemics: A Study of Infection in Peromyscus*  
Anastasia Toumpas, Wells College

### **FOGELMAN CLASSROOM BUILDING 264**

#### **International Studies**

**9:00-9:20 a.m.**

*Fractured Europe*  
Patrick Isacks, Louisiana State University

**9:20-9:40 a.m.**

*Healthcare Systems: The Role of Medical Education and Doctors in the Functioning of the Healthcare Systems of the United States and Ecuador*  
Kathryn Brueggeman, Illinois College

**9:40-10:00 a.m.**

*How to Improve Japanese People's Global and National Identity?: Effects of Foreign Experience, Value Orientation, and Life Satisfaction*  
Alva Soong, Musashino University

### **FOGELMAN CLASSROOM BUILDING 265**

#### **International Studies**

**9:20-9:40 a.m.**

*The Visegrad Curtain? Central Europe's Response to the Migration Crisis*  
Andrew Wargofchik, Lafayette College

**9:40-10:00 a.m.**

*Decolonizing Jurisprudence: Utilizing Human Rights Reinterpretations from the Inter-American Court of Human Rights for Mapuche Rights Claims*  
Emily Kawahigashi, Seattle University

### **JONES HALL 200**

#### **Education**

**9:00-9:20 a.m.**

*Preparing Teacher Candidate For Diverse Classroom*  
Ryan Borges, Northern Michigan University

**9:20-9:40 a.m.**

*Changes in Intercultural Competency Among Undergraduate Students in Elementary Education*  
Mercedez Johnson, Minnesota State University, Mankato

**9:40-10:00 a.m.**

*Characteristics of Curriculum to Promote Self-Determination Skills for Students with Severe Disabilities:*  
Erin Ohnemus, Bridgewater State University

## Student Oral Session 5 - Fri 9:00am-10:00am

### **JONES HALL 212**

#### **Literature**

**9:20-9:40 a.m.**

*Aquinas' Hymns and Classical Criticism*  
David Nussman, Xavier University

**9:40-10:00 a.m.**

*Assimilation: A Debunked Notion*  
Victoria Rodriguez, University of the Pacific

### **JONES HALL 214**

#### **Literature**

**9:00-9:20 a.m.**

*Renegotiating Beckett's Fourth Wall: The Naturalist Space as the Crucible for Tragedy in the Later Works*  
Carter Wenger, University of Memphis

**9:20-9:40 a.m.**

*Resolving the Infinite Gest: Don Gately as Narrator of "Infinite Jest"*  
Jessica Berchtold, Capital University

**9:40-10:00 a.m.**

*Science and Literature: An Exploration Through a Shared Language*  
Maura Stovall, Eastern Kentucky University

### **JONES HALL 218**

#### **English**

**9:20-9:40 a.m.**

*"A Ruin So Strange It Must Never Have Happened": The Silencing of Narratives in *The Poisonwood Bible* and *Lord of the Flies**  
Virginia Harris, Anderson College

**9:40-10:00 a.m.**

*"A Still Moment" of Colonial Impulse*  
Leslie Robertson, University of West Georgia

#### **Poetry & Creative Writing**

**9:00-9:20 a.m.**

*This Marble Monument: Penning Elegies and Eulogies in the Style of W. H. Auden*  
Emma Carpenter, Houghton College

### **JONES HALL 226**

#### **English**

**9:00-9:20 a.m.**

*Dialogue in Trauma Poetry*  
Abigail Goodhart, Capital University

**9:20-9:40 a.m.**

*Dick Diver's Demise: Mimetic Desire and the American Dream in *Tender Is the Night**  
Shaley Lensegrav, Black Hills State University

**9:40-10:00 a.m.**

*Do You Hear What I Hear: The Rhetorical Styles of God and Satan in Milton's *Paradise Lost**  
Makayla Smith, Western Carolina University

### **JONES HALL 237**

#### **Education**

**9:00-9:20 a.m.**

*The Impact of a Residential Program on the Lives of Urban Public Charter School Students*  
Brandan Persaud, American University

**9:40-10:00 a.m.**

*The Investigation of Similarities and Differences Between Perceptions of Male and Female Teachers Regarding Male Teachers in the Elementary Grades*  
Benjamin Dickey, Stephen F. Austin State University

#### **Journalism**

**9:20-9:40 a.m.**

*Gen Z's First Election and Use of Social Media*  
Sydney O'Shaughnessy, Ithaca College

### **JONES HALL 239**

#### **English**

**9:00-9:20 a.m.**

*The Pen Is Mightier: Creative Undergraduate Expression on Social Justice*  
Stephanie Karpeuk, Cedar Crest College

**9:20-9:40 a.m.**

*The Plague of Neoliberalism in Colson Whitehead's *Zone One**  
Brendan Kehoe, Seattle University

## Student Oral Session 5 - Fri 9:00am-10:00am

### **9:40-10:00 a.m.**

*The Politics of Pathos: The Aesthetic Presence of Dante in The Story of Rimini*  
Meredith Hilliard, Mississippi State University

### **JONES HALL 243**

#### **Philosophy & Ethics**

##### **9:20-9:40 a.m.**

*Dissolving Harrop's Semantic Paradox Concerning Moral Error Theory*  
Melvin Davila Martinez, Utah Valley University

### **JONES HALL 249**

#### **English**

##### **9:00-9:20 a.m.**

*Permitting No Enemies: The Defeat of Determinism by Free Will in Cormac McCarthy's No Country for Old Men*  
Starlina Rose, William Peace University

##### **9:20-9:40 a.m.**

*Poe and Whitman: Leaving Similar Marks of Beauty*  
Kendall Kartaly, Valparaiso University

##### **9:40-10:00 a.m.**

*Poe's Place in American Cannon: Analysis of The Narrative of Arthur Gordon Pym of Nantucket and Melville's Moby Dick*  
Carra Hurley, Western Carolina University

### **MANNING HALL 202**

#### **Kinesiology & Exercise Science**

##### **9:00-9:20 a.m.**

*Factors Contributing to the Walk-to-Run Transition in Human Gait*  
Thomas Otley, Asbury University

##### **9:20-9:40 a.m.**

*Impact of an Affect-Based Exercise Prescription on Aerobic Fitness and Exercise Adherence*  
Nicole Doolen, Elon University

##### **9:40-10:00 a.m.**

*Impact of Regular Exercise on Communication and Quality of Life for People with Aphasia*  
Adam Peronto, University of Wisconsin - Eau Claire

### **MANNING HALL 204**

#### **History**

##### **9:00-9:20 a.m.**

*Blood Will Tell: The Modern Legacy of the American Eugenics Movement*  
Holley Hughes, University of Central Oklahoma

##### **9:20-9:40 a.m.**

*Boston's Bicentennial Blues: How the Unraveling of Boston's Expo '76 Revealed America's Crisis of Confidence, 1967-1976*  
Cullen Smith, Hope College

##### **9:40-10:00 a.m.**

*Breaking New Ground: A Deeper Look into Two of North Carolina's Earliest Public Universities*  
Kiara Hines, Western Carolina University

### **MANNING HALL 222**

#### **History**

##### **9:00-9:20 a.m.**

*Linguistic Purism in Croatia and the Faroe Islands*  
Arnbjoern Mortensen, University of Wisconsin - Superior

##### **9:20-9:40 a.m.**

*Migration or Conquest?: German Identity in the United States, 1860-1920*  
Noah Bender, University of Rochester

##### **9:40-10:00 a.m.**

*Minnesota's Miracles: Education Reforms That Took Minnesota to the Head of the Class*  
James Zimmerman, Hamline University

### **MANNING HALL 318**

#### **Communications**

##### **9:00-9:20 a.m.**

*How Do Kenyan Women Living in Diaspora Shape Their Sexual Reproductive Health Through Narrative?*  
Stephanie Njeru, Juniata College

##### **9:20-9:40 a.m.**

*How Romantically Themed Television Influences College Students' Views on Relationships*  
Kaitlyn Macisco, Eastern Connecticut State University

## Student Oral Session 5 - Fri 9:00am-10:00am

### **MANNING HALL 320**

#### **Women, Gender, and Sexuality Studies**

**9:00-9:20 a.m.**

*Devadasi Practice, Criminalization, and Reform: A Strengthening of Patriarchal Authority*  
Brianna Birchett, Elon University

**9:20-9:40 a.m.**

*Diaspora, Displacement, and Disidentification: Queer Spaces of Limited Resistance*  
Elijah Castillo, City University of New York- Brooklyn College

**9:40-10:00 a.m.**

*Effect of News Media on Female Politicians*  
Anna Dore, University of Central Oklahoma

### **MANNING HALL 332**

#### **Religious Studies**

**9:00-9:20 a.m.**

*Troubling Binaries: Exploring Femininity in Hagiographies of the Early Monastic Period*  
Madison Kuenzli, Rhodes College

**9:20-9:40 a.m.**

*Walking the Line: An Analysis of the Museum on the Seam in Jerusalem and Its Artful Address to the Holy City and Its Religious and Secular Inhabitants*  
Eileen Yohannes, University of California, Davis

**9:40-10:00 a.m.**

*Welcoming Refugees: A Theological Perspective*  
Natalia Rivera, Our Lady of the Lake University

### **MANNING HALL 340**

#### **Criminology**

**9:20-9:40 a.m.**

*Relationships Between Black Students and Authority; Alleviating the Social Unrest Between Black Students and Law Enforcement at the University of Central Oklahoma*  
Jaylon Thomas, University of Central Oklahoma

**9:40-10:00 a.m.**

*The War on Drugs and Mass Incarceration*  
Dominique Malone, University of Tennessee at Chattanooga

### **MANNING HALL 413**

#### **Computer Science**

**9:00-9:20 a.m.**

*Automatic Generation of Optimal Quantum Key Distribution Protocols*  
Michael Nelson, Iona College

**9:20-9:40 a.m.**

*Estimating Daily Beehive Activities Using Image Processing*  
Jonathan Brotherton, Appalachian State University

**9:40-10:00 a.m.**

*Frequency Spectrum Sharing and Priority Assignment in Communication Systems*  
Branden Austin, University of Toledo

### **MANNING HALL 417**

#### **Sociology**

**9:00-9:20 a.m.**

*Exploration of Capitalistic Encroachment on Sense of Place Within the La Crosse Communities Relationship to the La Crosse Marsh*  
Samantha Beilfuss, University of Wisconsin - La Crosse

**9:20-9:40 a.m.**

*Family, God, and Womanhood: Latina Higher Education Decision Making*  
Amanda Hernandez, University of Texas at San Antonio

**9:40-10:00 a.m.**

*Female Facial Beauty Enhanced by Cosmetics and Perceived Fertility*  
Vibha Shekhar, Virginia Commonwealth University

### **MANNING HALL 426**

#### **Religious Studies**

**9:20-9:40 a.m.**

*Atheist Discrimination in America Real or Imagined?*  
Lauren Stogner, Western Carolina University

**9:40-10:00 a.m.**

*Changes in Core Identity and Cultural Engagement After Expansion of Theological Understanding*  
Jonathan Wynne, Lubbock Christian University

## Student Oral Session 5 - Fri 9:00am-10:00am

### **MEEMAN JOURNALISM 106**

#### **Political Science**

**9:20-9:40 a.m.**

*Regime Type and Its Effect on Life Expectancy*  
Randall King, Hendrix College

### **MEEMAN JOURNALISM 112**

#### **Political Science**

**9:00-9:20 a.m.**

*Case Study: A Political-Economic Analysis of the American Taxpayer Relief Act of 2012*  
Martin Maldonado, American University

**9:20-9:40 a.m.**

*Changing Gender Roles in Post-Reform Vietnam*  
Anvy Tran, Juniata College

### **MEEMAN JOURNALISM 204**

#### **Law & Legal Studies**

**9:00-9:20 a.m.**

*Impact of States' Farm Animal Welfare Legislation on CAFOs*  
Morgan Harris, American University

**9:40-10:00 a.m.**

*Barriers to Renewable Energy: The U.S. Government and Fossil Fuels*  
Zachary Luckin, Ithaca College

### **PSYCHOLOGY AUDITORIUM A0200**

#### **Experimental Psychology**

**9:20-9:40 a.m.**

*Familiarity and Reinforcement Interact to Predict Performance in the Presence of Others*  
Sydney Batchelder, Eastern Connecticut State University

### **PSYCHOLOGY BUILDING 204**

#### **Behavioral Neuroscience**

**9:00-9:20 a.m.**

*The Role of Postsynaptic Phosphorylation in Synaptic Plasticity in Drosophila*  
Kristin Schlueter, Truman State University

### **Clinical Psychology**

**9:20-9:40 a.m.**

*Association Between Trauma, Body Modification, and Self Harm*  
Rachel Ulozas, William Peace University

### **PSYCHOLOGY BUILDING 206**

#### **Cognitive Neuroscience**

**9:00-9:20 a.m.**

*Anxiety and Nostalgia: Implementation of Nostalgic-based Strategies in University Counseling Practices*  
Rashmi Naidu, Virginia Commonwealth University

**9:20-9:40 a.m.**

*Attentional Connectivity Networks and Their Implications in Reading and Memory*  
Lana Grasser, Michigan State University

**9:40-10:00 a.m.**

*Detecting Wading Bird Presence in Time-Lapse Images with a Convolutional Neural Network*  
Michael Teti, Florida Atlantic University

### **PSYCHOLOGY BUILDING 230**

#### **Geography & Earth Sciences**

**9:40-10:00 a.m.**

*Delta Hands for Hope: A Force for Reconciliation and Sustainable Development in the Delta?*  
Mary Travis, University of Southern Mississippi

### **PSYCHOLOGY BUILDING 244**

#### **Behavioral Neuroscience**

**9:00-9:20 a.m.**

*The Religiosity of LSD Users with Pre-existing Schizophrenic Tendencies*  
Kailey Babcock, Virginia Commonwealth University

#### **Geography & Earth Sciences**

**9:20-9:40 a.m.**

*Surface Layer Climatological Analyses of Atmospheric Data at the VCU Rice Rivers Center*  
Joseph Robinson, Virginia Commonwealth University

## Student Oral Session 6 - Fri 12:00pm-1:00pm

### Student Oral Session 6 - Fri 12:00pm-1:00pm

#### ART AND COMMUNICATION 257

##### Art History

**12:00-12:20 p.m.**

*Judith of Bethulia: Deceitful Seductress or Chaste Savior*  
Amy Orner, Juniata College

**12:20-12:40 p.m.**

*Kabuki and Dumb Type*  
Joanne Adams, University of Central Oklahoma

**12:40-1:00 p.m.**

*Kim Kardashian and the Interruption of the Male Gaze in the Historic Female Self Portraits of the Countess De Castiglione*  
Dorothe Santistevan, University of North Carolina - Asheville

#### ART AND COMMUNICATION 310

##### Graphic Design

**12:00-12:20 p.m.**

*Genetically Modified Organisms*  
Kellie Macauley, University of the Pacific

**12:20-12:40 p.m.**

*Stop the Shortage on Education*  
Kirsten Doting, University of the Pacific

**12:40-1:00 p.m.**

*Switching to Sustainable Palm Oil Production*  
Kristina Davis, University of the Pacific

#### ART AND COMMUNICATION 317

##### Music

**12:20-12:40 p.m.**

*Defining Music Performance Anxiety: Causes and Coping Strategies*  
Rachel Whitman, Appalachian State University

#### COMMUNICATION AND FINE ARTS 124

##### Art History

**12:00-12:20 p.m.**

*Intersections in Contemporary Chinese Art: Where Tradition Meets Innovation*  
Amanda Matta, Juniata College

##### Music

**12:20-12:40 p.m.**

*Radiohead and the Evolution of Music Theory*  
Jackson Van Horn, Appalachian State University

**12:40-1:00 p.m.**

*Redefining Femininity Through Music From A New Hope to The Force Awakens*  
Hannah Blanchette, Ithaca College

#### DUNN HALL 103 / 105

##### African American Studies

**12:20-12:40 p.m.**

*To Be Black, Female, and Already Dead: Black Women, Discourses on Value, and Disposability*  
Itane' Coleman, University of North Carolina at Greensboro

#### DUNN HALL 107

##### Anthropology

**12:00-12:20 p.m.**

*Self, Agency, and Community in Houseless Settlements in Portland, Oregon*  
Asher Trout, Wheaton College

**12:20-12:40 p.m.**

*Sex Determination from Hand and Foot Bone Lengths: An Experimental Application*  
Alexander Dawes, California University of Pennsylvania

**12:40-1:00 p.m.**

*Shared Identities and Displacement: Gathering Rwandan Perceptions of Burundian Refugees*  
Lacy Myrman, The George Washington University

## Student Oral Session 6 - Fri 12:00pm-1:00pm

### **DUNN HALL 119 / 121**

#### **Biology**

**12:00-12:20 p.m.**

*A Link Between Endemism and Seed Morphology in Solidago Shortii*

Evan Singleton, Eastern Kentucky University

**12:20-12:40 p.m.**

*A Modified Ketogenic Diet Attenuates Motor Disability and Cognitive Impairment in a Murine Model of Multiple Sclerosis (MS)*

Jenny Willis, Saint Vincent College

**12:40-1:00 p.m.**

*A Survey of  $\beta$ -lactam Antibiotic Resistance in Minnesota Soils*

Emily Wollmuth, Hamline University

### **DUNN HALL 123/125**

#### **Biology**

**12:00-12:20 p.m.**

*Halsted's "see One, Do One, and Teach One" Versus Peyton's Four-Step-Approach – a Randomized Trial for Training of Laparoscopic Suturing and Knot Tying*

Sarah Trent, Loyola University Maryland

**12:20-12:40 p.m.**

*Harvester Ants - Herbicide Components Responsible for Behavioral Inhibition*

Krystal Meza, Webster University

**12:40-1:00 p.m.**

*How Do Sand Boas Capture Prey They Cannot See?*

Michelle Pomposello, Moravian College

### **DUNN HALL 124**

#### **Cell & Molecular Biology**

**12:00-12:20 p.m.**

*Hepatotoxicity Testing of Acetaminophen in Two- and Three-Dimensional Rat Hepatocyte Cultures*

Margaret Clapham, Drake University

**12:40-1:00 p.m.**

*High-frequency Ultrasound as a Means for Monitoring Changes in Biomechanics of Cancer Cells*

Caitlin Carter, Utah Valley University

### **DUNN HALL 129**

#### **Cellular Neuroscience**

**12:00-12:20 p.m.**

*The Neurodegenerative Effects of Zinc Buildup in the Brain Following Methamphetamine Treatment*

Alyssa Thompson, University of North Georgia

**12:20-12:40 p.m.**

*Ultrastructure of the Substantia Nigra in Schizophrenia and Treatment Response*

Courtney Walker, University of Alabama at Birmingham

### **DUNN HALL 225 / 227**

#### **Chemistry**

**12:20-12:40 p.m.**

*Synthesis and Characterization of Smart Polymer-Grafted Silica*

Maria Brandel, University of Wisconsin - Eau Claire

**12:40-1:00 p.m.**

*Synthesis and Reactivity of New Borohydride Compounds*

Brena Thompson, Eastern Washington University

### **DUNN HALL 233**

#### **Ecology & Organismal Biology**

**12:00-12:20 p.m.**

*Soil Microbial Diversity and Ecology in Response to Nitrogen Additions*

Emmi Mueller, University of Michigan

**12:20-12:40 p.m.**

*The In Vitro and In Vivo Effects of PolyDOTs on the Eastern Oyster, Crassostrea virginica.*

Daniel Smith, University of North Carolina, Charlotte

**12:40-1:00 p.m.**

*The Influence of Arbuscular Mycorrhizal Fungi on Above Ground Species Interactions*

Isabelle Katz, University of Michigan

## Student Oral Session 6 - Fri 12:00pm-1:00pm

### **DUNN HALL 249 / 251**

#### **Biology**

##### **12:00-12:20 p.m.**

*The Roles of Non-structural Protein 1 in Flavivirus Assembly*

Morgan Schafer, Purdue University Main Campus

##### **12:20-12:40 p.m.**

*Understanding SIN3 Regulation and Recruitment in Drosophila melanogaster*

Maksymilian Pilecki, Wayne State University

#### **Mathematics**

##### **12:40-1:00 p.m.**

*A Mathematical Approach to Characterize the Transmission Dynamics of Yersinia pestis*

Heather Polgreen, Mount Saint Mary College

### **DUNN HALL 351**

#### **Health Sciences**

##### **12:00-12:20 p.m.**

*Misunderstandings of Type 1 and Type 2 Diabetes Among Uninsured Primary Care Patients*

Shannon Weaver, University of Utah

##### **12:20-12:40 p.m.**

*Ontology-based Representation and Analysis of Adverse Events Associated with Neuropathy-inducing Drugs*

Noemi Garg, University of Michigan

##### **12:40-1:00 p.m.**

*Pretherapy Work Limitations in Postmenopausal*

*Women with Early Stage Breast Cancer*

Erin Zita, University of Pittsburgh School of Nursing

### **ENGINEERING SCIENCE BUILDING 218**

#### **Biomedical Engineering**

##### **12:00-12:20 p.m.**

*Laboratory Model of Inner Ear Mechano-Transduction*

Ibrahim Mohammad, University of Rochester

##### **12:20-12:40 p.m.**

*Measuring Complex Biomarkers in Human Cell Lysate Using Arrayed Imaging Reflectometry (AIR)*

Hayden Carder, University of Rochester

##### **12:40-1:00 p.m.**

*Novel Endothelium-Mimicking Nanomatrix Coating to Enhance Healing of Ruptured Intracranial Aneurysms Treated with Coil Embolization*

Maggie Collier, University of Alabama at Birmingham

### **ENGINEERING SCIENCE BUILDING 220**

#### **Electrical Engineering**

##### **12:00-12:20 p.m.**

*Improved Model for Current Feedback Operational Amplifiers*

Michael Aceto, Milwaukee School of Engineering

##### **12:20-12:40 p.m.**

*Limits of Heintzmann and Cremer's Super Resolution Technique*

William McCray, Western Carolina University

### **ENGINEERING SCIENCE BUILDING 222**

#### **Mechanical Engineering**

##### **12:00-12:20 p.m.**

*Effects of Confinement Geometry on Diblock Copolymer Systems Using Finite Element Analysis*

Jonathan Green, Iowa State University

##### **12:20-12:40 p.m.**

*Experimental and Simulated Analysis of 3D Printed Parts Under Impact*

Matthew Hoffman, California State University - Long Beach

##### **12:40-1:00 p.m.**

*Experimental Characterization of the Tensile Strength of Titanium Parts Manufactured by Direct Metal Laser Sintering Process*

Katherine Ludeman, Metropolitan State University of Denver

## Student Oral Session 6 - Fri 12:00pm-1:00pm

### **FOGELMAN CLASSROOM BUILDING 119**

#### **Business/Finance/Accounting**

**12:20-12:40 p.m.**

*Overcoming the Great Wall of Business*  
Emily Turner, Appalachian State University

**12:40-1:00 p.m.**

*Preparing for the Nuclear Option: How Can Christian Colleges Plan to Survive the Loss of Tax-Exempt Status?*  
Oluwaseyi Matthew Ojo, Dordt College

### **FOGELMAN CLASSROOM BUILDING 125**

#### **Marketing**

**12:20-12:40 p.m.**

*On Campus Dining Options: Subway & Market Fresh Deli*  
Jessica Jervis-Viville, University of West Georgia

**12:40-1:00 p.m.**

*Online User Satisfaction of Far Out Galaxy*  
Alexandra Gunter, University of West Georgia

### **FOGELMAN CLASSROOM BUILDING 127**

#### **Economics**

**12:00-12:20 p.m.**

*Effect of Skills on Golfers' Rank:  
An In-Depth Look at the PGA Tour*  
Desirae Haselwood, Pacific Lutheran University

**12:20-12:40 p.m.**

*Empirical Evidence for Mixed Strategy Equilibria in One on One Basketball Games*  
Patrick Long, University of Memphis

**12:40-1:00 p.m.**

*Federally Funded Student Loan Debt and the Individual's Propensity to Default*  
Sara Christensen, Pacific Lutheran University

### **FOGELMAN CLASSROOM BUILDING 131**

#### **Economics**

**12:00-12:20 p.m.**

*The Relationship Between Income and the Hospitalization Rates of Ambulatory Care Sensitive Conditions*  
Justin Morin, Elon University

**12:20-12:40 p.m.**

*Transit Subsidies and Their Effect on Ridership and Optimal Transit Supply*  
Anna Jessen, Pacific Lutheran University

### **FOGELMAN CLASSROOM BUILDING 133**

#### **Microbiology & Immunology**

**12:00-12:20 p.m.**

*Lysine Acetylation Regulates Biofilm Formation in Mycobacterium smegmatis*  
Gema Hernandez, William Peace University

**12:40-1:00 p.m.**

*Resistance of Multi-species Biofilms to Ultrasonic Disruption*  
Taryn McFadden, Guilford College

### **FOGELMAN CLASSROOM BUILDING 259**

#### **Nursing**

**12:00-12:20 p.m.**

*The Influence of Individual Factors and Common Variants of Catechol-O-methyltransferase on Symptoms Experienced by Postoperative Orthopedic Patients*  
Christina Kudach, University of Pittsburgh School of Nursing

**12:20-12:40 p.m.**

*The Use of Video Calls in Early Labor Care: Exploring Provider Perceptions*  
Sarah Smeltzer, Baylor University

**12:40-1:00 p.m.**

*Zapping Zika Through Education*  
Averi Edwards, Abilene Christian University

### **FOGELMAN CLASSROOM BUILDING 261**

#### **Physics**

**12:00-12:20 p.m.**

*Search for the Z-Prime Boson Using the ATLAS Detector at the Large Hadron Collider(LHC) at CERN*  
Veronica Winters, Bellarmine University

**12:40-1:00 p.m.**

*Selective Electroless Nickel Deposition on PMMA Using Chloroform Pre-Treatment*  
Nicholas Sipes, James Madison University

## Student Oral Session 6 - Fri 12:00pm-1:00pm

### **FOGELMAN CLASSROOM BUILDING 262**

#### **Public Health**

##### **12:00-12:20 p.m.**

*Going to War With Type II Diabetes: Insights into Improved Insulin Sensitivity*

Zakiyah Henry, Winston-Salem State University

##### **12:20-12:40 p.m.**

*Healing the Brain: Mild Traumatic Brain Injury in Central Vancouver Island*

Amanda Inglis, Vancouver Island University

##### **12:40-1:00 p.m.**

*Healthcare for All: A Roadmap for a Healthier Georgia*

Vineet Raman, University of Georgia

### **FOGELMAN CLASSROOM BUILDING 264**

#### **International Studies**

##### **12:00-12:20 p.m.**

*Institutionalized Xenophobia: The Effects of an Electorate's Prejudice on Swiss Institutions*

Nadia Almasalkhi, University of Kentucky

##### **12:20-12:40 p.m.**

*Machismo and Language: A Comparative Study of Gendered Linguistics and Gender Relations in Society*

Sophia Angst, Elon University

### **FOGELMAN CLASSROOM BUILDING 265**

#### **International Studies**

##### **12:00-12:20 p.m.**

*Why Do They Leave? The Status of Guatemalan Female Migrants Under International Law*

Caroline Moot, The George Washington University

#### **Political Science**

##### **12:20-12:40 p.m.**

*Political Privilege and a Free Pass on Justice*

Santana Batts, William Peace University

### **JONES HALL 200**

#### **Education**

##### **12:00-12:20 p.m.**

*Cracking the Code: Redefining Text Complexity, Complicating Reading Pedagogy, Creating Lifelong Readers and Learners*

Sarah Bruns, Bridgewater State University

##### **12:20-12:40 p.m.**

*Developing 5th Graders' Understanding of Fraction Multiplication*

Kayla Davis, Salisbury University

##### **12:40-1:00 p.m.**

*Developing an Application for Interdisciplinary Wikipedia Content Search Using Network-Based Models*

Avisha Sabaghian, University of Utah

### **JONES HALL 212**

#### **Literature**

##### **12:00-12:20 p.m.**

*Can a Hero Be a Feminist? - A Question That Baffles Hollywood, but Glorifies in YA Literature.*

Jade Hall, University of Central Oklahoma

##### **12:40-1:00 p.m.**

*Don't Go Breaking My Troth: Contrasting "The Franklin's Tale" and Sir Gawain and the Green Knight*

J'Lecia Jones, University of Central Oklahoma

### **JONES HALL 214**

#### **Literature**

##### **12:00-12:20 p.m.**

*Slaughterhouse-Five and Not-Slaughterhouse-Five: A Zen Reading of the Tralfamadorian Philosophy*

Thanh Huynh, University of Central Oklahoma

##### **12:20-12:40 p.m.**

*Social Justice and Critical Literacy in Annie on My Mind*

Callie Newman, University of Central Oklahoma

##### **12:40-1:00 p.m.**

*Social Justice for Immigrants in Young Adult Literature*

Isra Cheema, University of Central Oklahoma

## Student Oral Session 6 - Fri 12:00pm-1:00pm

### **JONES HALL 218**

#### **English**

**12:00-12:20 p.m.**

*"A Voice of Her Own: Jane Austen's Mansfield Park"*  
Mardell Fisher, Carthage College

**12:20-12:40 p.m.**

*"As They Are Approved by the Word of God": Mirrored Acts of Knowledge Transmission in Lady Grace Mildmay's Meditations and Medical Papers"*  
Eileen Jakeway, University of North Carolina, Charlotte

**12:40-1:00 p.m.**

*"An Ethiop Tells You": Methodist Teachings in the Poetry of Phillis Wheatley*  
Amelia Fuss, Bridgewater State University

### **JONES HALL 226**

#### **English**

**12:20-12:40 p.m.**

*Elephant in the Room- Bringing Homosexuality to the American Literary Conversation*  
Clay Whisler, University of Northern Iowa

**12:40-1:00 p.m.**

*Fandom and the Compositional Power of Transformative Fiction*  
Keshia Mcclantoc, University of Montevallo

### **JONES HALL 237**

#### **Education**

**12:00-12:20 p.m.**

*Two Sides to Every Story: An Ethnographic Analysis of Experiences of Strength and Challenge Within the First Generation College Student Experience at Siena College*  
Emily Heald, Siena College

**12:20-12:40 p.m.**

*Uncovering Racial Microaggressions at a Liberal Arts College: Experiences and Strengths of Black and Middle-Eastern Undergraduates*  
Joshua Gonzalez, Luther College

**12:40-1:00 p.m.**

*Use of Classroom Technology to Promote Learning Among Students with Autism*  
Kelsey Rising, State University of New York-Brockport

### **JONES HALL 239**

#### **English**

**12:00-12:20 p.m.**

*The Supervillain as Modern-Day Vice*  
Ethan Samerdyke, The University of Virginia's College at Wise

**12:20-12:40 p.m.**

*This Paper Examines the Sincerity and Possibility of Briony Tallis's Plea for Forgiveness and Her Consequent Reparation in Ian McEwan's Novel Atonement.*  
Sydney Bollinger, University of West Georgia

**12:40-1:00 p.m.**

*Time as a Human Construction: Time Consciousness in Alice in Wonderland*  
Ashley Farley, State University of New York-Brockport

### **JONES HALL 243**

#### **Philosophy & Ethics**

**12:00-12:20 p.m.**

*Feminist Bioethics and Psychiatry: Critiques of and Remedies for Psychiatric Practices*  
Morgan Shaw, Siena College

**12:20-12:40 p.m.**

*Finding Chora: The Continuity of the Maternal Feminine in the Ancient World*  
Kristin Courville, Wayne State University

**12:40-1:00 p.m.**

*Fredrick Nietzsche's Philosophy: Evaluating Nietzsche's Values*  
Loni Taber, Eastern Washington University

### **JONES HALL 249**

#### **English**

**12:00-12:20 p.m.**

*Political Joyce: A Literary Analysis of James Joyce's Political Essays and Literature*  
Shelby Lauzon, North Central College

## Student Oral Session 6 - Fri 12:00pm-1:00pm

### **12:20-12:40 p.m.**

*Postcolonial Themes in George W. Bush's Address to Joint Session of Congress Following the 9/11 Attacks*  
Lauren Meyers, The University of Findlay

### **12:40-1:00 p.m.**

*Racial Roots of Romanticism*  
James Flynn, University of Massachusetts Boston

### **MANNING HALL 202**

#### **Kinesiology & Exercise Science**

### **12:00-12:20 p.m.**

*Factors Contributing to the Walk-to-Run Transition in Human Gait*  
Nicholas Kulaga, Asbury University

### **12:20-12:40 p.m.**

*Measurements of Acromiohumeral Distance with the Application of Kinesio Tape at 30, 60, 90, and 120 Degrees of Glenohumeral Abduction*  
Leanne Oakes, North Dakota State University (Nlt)

### **12:40-1:00 p.m.**

*The Effects of Statins on Heart Rate Variability and Resting Heart Rate in Older Adults*  
Sallee Brandt, Hamline University

### **MANNING HALL 204**

#### **History**

### **12:00-12:20 p.m.**

*British Images of West Africa*  
Nathaniel Plemons, Rhodes College

### **12:20-12:40 p.m.**

*Building Visualizing Abolition: A Digital Approach to the History of the Suppression of the African Slave Trade*  
Humera Lodhi, University of Missouri

### **12:40-1:00 p.m.**

*Capturing Farmers' Perspectives Through Oral History*  
Madeline Hass, University of Wisconsin - Oshkosh

### **MANNING HALL 222**

#### **History**

### **12:00-12:20 p.m.**

*More Than the Guillotine: The Reign of Terror's Approach to Criminal Justice in the French Revolution*  
Madeleine Anthony, Ithaca College

### **12:20-12:40 p.m.**

*Oral Histories of the 20th Century*  
Aina Suemitsu, University of Wisconsin - River Falls

### **12:40-1:00 p.m.**

*Peripherality: Du Bois and the Woman Question*  
JohnMorgan Baker, Birmingham- Southern College

### **MANNING HALL 318**

#### **Communications**

### **12:00-12:20 p.m.**

*Mood Changes and Themes from Color Techniques in Film*  
Caroline O'Malia, Appalachian State University

### **12:20-12:40 p.m.**

*Multi-Level Marketing Perception Among University Students*  
Lincoln Op't Hof, Utah Valley University

### **12:40-1:00 p.m.**

*Notes of a Non-Native Son*  
Joel Johnson, Messiah College

### **MANNING HALL 320**

#### **Women, Gender, and Sexuality Studies**

### **12:00-12:20 p.m.**

*Feminist Motherhood Through Memoir in Maggie Nelson's "The Argonauts"*  
Sebastián Maldonado-Vélez, Truman State University

### **12:20-12:40 p.m.**

*From Edmond to Edinburgh: An Examination of the International Fringe Arts Festival on the Global BGLTQIA+ Movement*  
Gabrielle Glidewell, University of Central Oklahoma

## Student Oral Session 6 - Fri 12:00pm-1:00pm

### **MANNING HALL 332**

#### **Interdisciplinary Studies**

**12:40-1:00 p.m.**

*Forest Cover and Change in the Kashmir Valley: Militarization, Environmental Degradation, and Adaptation*

Emily Doerner, University of Northern Colorado

#### **Religious Studies**

**12:00-12:20 p.m.**

*Women in Biblical Law: How the Daughters of Zelophehad Won and Lost*

Shannon Tacheny, St. Catherine University

#### **Sociology**

**12:20-12:40 p.m.**

*Woher Kommst Du Wirklich? Where Do You Really Come? A Qualitative Study of Afro-German Identity*

Amerin Idell, Carthage College

### **MANNING HALL 340**

#### **Social Work**

**12:00-12:20 p.m.**

*Contributing Factors: The Social Workers Role in the Effects of Unemployment*

Samantha Rodriguez, Tarleton State University

**12:20-12:40 p.m.**

*Food Pantry Utilization*

Sean Cochrane, Siena College

**12:40-1:00 p.m.**

*Marked for Life: The Far Reaching Impact of Parental Military Deployment on Young Adults*

Megan Humlcek, University of Nebraska at Kearney

### **MANNING HALL 413**

#### **Computer Science**

**12:00-12:20 p.m.**

*Fully-Stateless Steganography*

Jesse Stern, University of Rochester

### **MANNING HALL 417**

#### **Sociology**

**12:00-12:20 p.m.**

*How Non-White Bodies Navigate Society Before and After a Trump Election*

Hanna Niner, Trinity University

**12:20-12:40 p.m.**

*Inconsistency and Inequality in LGBTQ Housing: A Fair Housing Study*

Melissa Roberts, University of North Carolina at Greensboro

**12:40-1:00 p.m.**

*Latin American Love: Religion and Relationships Among Colombian Catholics*

Alexandria Corriveau, North Central College

### **MANNING HALL 426**

#### **Religious Studies**

**12:00-12:20 p.m.**

*Christianity and African Traditional Religion*

Alleyah Caesar, Spelman College

**12:20-12:40 p.m.**

*Constructing and Performing Authority in Yoga Traditions: An Ethnographic Approach*

Anya Fredsell, Elon University

### **MEEMAN JOURNALISM 106**

#### **Political Science**

**12:00-12:20 p.m.**

*Representation and Health: The Effects of Women Legislators on Infant and Maternal Mortality in the Developing World*

Julia Zellers, Texas Christian University

**12:20-12:40 p.m.**

*Residency Laws: Explaining Its Impact on Local Property Values*

Adam Kuhn, University of Wisconsin - La Crosse

**12:40-1:00 p.m.**

*Sanctions: Imprisoning the Nuclear Genie*

Michael Knaak, Carthage College

## Student Oral Session 6 - Fri 12:00pm-1:00pm

### **MEEMAN JOURNALISM 112**

#### **Political Science**

**12:20-12:40 p.m.**

*Contemplating Corrections in an Era of Mass Incarceration*

Ryan Gephart, Messiah College

**12:40-1:00 p.m.**

*Definition of Terrorism and Its Application in Today's World*

Aya-Nay Haddad, University of Rochester

### **MEEMAN JOURNALISM 204**

#### **Law & Legal Studies**

**12:00-12:20 p.m.**

*S.B. 1070: A Transgression of Civil Liberties*

Theophilus Alexander, Ithaca College

**12:20-12:40 p.m.**

*Sexual Violence and Collegiate Athletes*

Samantha Reilly, Ithaca College

**12:40-1:00 p.m.**

*Should the FAA Require Civilian Commercial Aircraft Manufacturers to Place Real Time Tracking Technology Device on All Aircraft?*

Stephanie Lipari, Ithaca College

### **PSYCHOLOGY AUDITORIUM A0200**

#### **Experimental Psychology**

**12:00-12:20 p.m.**

*Impact of Exercise and Mindfulness Activities on Cognitive Performance*

Kayla Setzer, University of North Carolina - Asheville

**12:20-12:40 p.m.**

*Impression Management and Social Capital on Social Networking Sites: Post Like Everyone's Watching*

Brigid Lockard, Christian Brothers University

**12:40-1:00 p.m.**

*In the Midst of Political Divide: Impact of Social Value Orientation Manipulation on Political Prejudice*

Anna-Catherine McCrary, Davidson College

### **PSYCHOLOGY BUILDING 204**

#### **Clinical Psychology**

**12:00-12:20 p.m.**

*Depression in Rural and Urban Areas*

Amanda Terry, William Peace University

**12:20-12:40 p.m.**

*Dying for a Diagnosis: The Impact of Racial Discrimination in Healthcare*

Danielle Owusu, Dominican University of California

**12:40-1:00 p.m.**

*Examining Caregivers' Knowledge, Empathy and Interventions for Autism Spectrum Disorder*

Angelina Lombardi, Dominican University of California

### **PSYCHOLOGY BUILDING 206**

#### **Cognitive Neuroscience**

**12:00-12:20 p.m.**

*Effect of Sleep Quality and Duration on Decision Making and Empathy in Prospective Jurors*

Lauren Homer, Weber State University

**12:20-12:40 p.m.**

*Emotional Stimuli Reduce Distractibility to Irrelevant Stimuli*

Daniel Gabriel, Christian Brothers University

**12:40-1:00 p.m.**

*How to Kill an Idea: An Investigation of the Effects of Cognitive Dissonance and "DoubleThink" on the Psyche of Marginalized People*

Alexa Marshall, City University of New York-Brooklyn College

### **PSYCHOLOGY BUILDING 230**

#### **Geography & Earth Sciences**

**12:00-12:20 p.m.**

*Effects of Competitive Growth on Survival and Fitness of Native *Asclepias syriaca* and Invasive *Cynanchum rossicum**

Holly Jackson, State University of New York-Brockport

**12:20-12:40 p.m.**

*Efficient Mosquito Vector Abundance Comparison Between Developed and Protected Natural Areas*

Jaquelin Ortuno, St. Edward's University

## **Student Oral Session 7 - Fri 1:20pm-2:20pm**

**12:40-1:00 p.m.**

*Excess: A Transportation Based Food Recovery Model*  
Olivia Juarez, University of Utah

### **PSYCHOLOGY BUILDING 244**

#### **Geography & Earth Sciences**

**12:00-12:20 p.m.**

*Climate Change Denial and Skepticism in China and the United States: Evidence from a Topic Prevalence Analysis of Open-Ended Survey Question Responses*  
Dylan Wilson, University of Wisconsin - Eau Claire

**12:20-12:40 p.m.**

*A Continuing Analysis of Chinese and American Public Support for an International Climate Change Mitigation Treaty Including Willingness-to-Pay for Climate Policy Action*

Ryan Hammer, University of Wisconsin - Eau Claire

## **Student Oral Session 7 - Fri 1:20pm-2:20pm**

### **ART AND COMMUNICATION 257**

#### **Art History**

**1:20-1:40 p.m.**

*Legitimizing Cultural Dominance Through Spectacle: A Comparative Study of Bushoong Performance and American Sporting Events*  
Olivia Musgrove, University of Central Oklahoma

**1:40-2:00 p.m.**

*Manet and Zola*  
Savannah Herrera, Hendrix College

### **ART AND COMMUNICATION 310**

#### **Graphic Design**

**1:20-1:40 p.m.**

*The Reality of Animal Agriculture*  
Kaila Munson, University of the Pacific

#### **Music**

**1:40-2:00 p.m.**

*The Impacts of the Industrial Revolution and the Following Hundred Years on Music Education in the Twenty-First Century*  
Sarah Liberti, Adelphi University

### **COMMUNICATION AND FINE ARTS 124**

#### **Dance History and Theory**

**1:20-1:40 p.m.**

*The Next Steps for Dance Reviews*  
Chloe London, State University of New York-Brockport

### **DUNN HALL 103 / 105**

#### **Anthropology**

**1:20-1:40 p.m.**

*Imperialism and Rebellious Ritualization: Female Genital Cutting Among the Jola of Casamance, Southern Senegal*  
Michelle Gaspari, George Mason University

**1:40-2:00 p.m.**

*Ya da fi wi Belize: Examining Nationality and Identity Through Belizean Carnival*  
Jazmin Miller, Brooklyn College

## Student Oral Session 7 - Fri 1:20pm-2:20pm

### **2:00-2:20 p.m.**

*"Only the Short Die Young": An Analysis of Growth and Development in Prehistoric Communities*  
Chrysanthi Violaris, George Mason University

### **DUNN HALL 107**

#### **Anthropology**

##### **1:20-1:40 p.m.**

*Shared Worlds: The Archaeologists, the Maya, and the Shadows of the Past. Indigenous Inclusivity in Maya Archaeology*  
Erik Pearl, University of Wisconsin - Stout

##### **1:40-2:00 p.m.**

*Silicon Valley Immigrants: The Benefited and the Marginalized*  
Sonja Chen, University of California, San Diego

##### **2:00-2:20 p.m.**

*Songwriting and the Arts as a Driving Force of Empowerment Among Indigenous and Migrant Youth in Thailand*  
Kora Feder, Long Island University

### **DUNN HALL 109**

#### **Astronomy**

##### **1:20-1:40 p.m.**

*Characteristics of Ion Upflow and Downflow Observed with the Poker Flat Incoherent Scatter Radar (PFISR)*  
Jiayue Lu, University of Michigan

##### **1:40-2:00 p.m.**

*Examining Globular Clusters in the Blanco DECam Bulge Survey*  
Doryan Miller, Indiana University

##### **2:00-2:20 p.m.**

*Simulations of Black Hole Accretion Disks*  
Sarina Etheridge, College of Charleston

### **DUNN HALL 119 / 121**

#### **Biology**

##### **1:20-1:40 p.m.**

*Altered MAP-7 Expression in Renal Cell Carcinoma*  
Kaitlin Budd, Oakland University

### **1:40-2:00 p.m.**

*Analysis of Reproductive Segments and Sperm from the Freshwater Annelid, *Lumbriculus*, for Protamine-like Molecules*  
Kelsey McKenna, St. Catherine University

##### **2:00-2:20 p.m.**

*Are You Mocking Me? Northern Mockingbird Vocal Mimicry*  
Reagan Monteith, Elon University

### **DUNN HALL 123/125**

#### **Biology**

##### **1:20-1:40 p.m.**

*Identification and Molecular Characterization of a High Light-Sensitive *Chlamydomonas reinhardtii* Mutant, 10E35*  
JaVon Swint, University of West Georgia

##### **1:40-2:00 p.m.**

*Identification of Gene Expression Within the Interpeduncular Nucleus*  
Darby Kozan, Guilford College

##### **2:00-2:20 p.m.**

*Identifying Cancer Drug Targets Using a Novel Yeast Small Compound Screen*  
Elvira An, University of North Carolina, Charlotte

### **DUNN HALL 124**

#### **Cell & Molecular Biology**

##### **1:20-1:40 p.m.**

*HOTAIR: The Role of Long Non-coding RNA Regulation in Breast Cancer*  
Sara Lohbauer, Florida Gulf Coast University

##### **1:40-2:00 p.m.**

*Interleukin-22 Induces Epithelial-to-Mesenchymal Transition in Pancreatic Cancer*  
Alexander Girgis, University of Michigan

##### **2:00-2:20 p.m.**

*Intrinsic Replication Stress from BRCA2 Deficiency Induces Chromosome Instability*  
Kayla Pederson, University of Minnesota, Twin Cities

## Student Oral Session 7 - Fri 1:20pm-2:20pm

### **DUNN HALL 129**

#### **Chemistry**

**1:40-2:00 p.m.**

*Addition of Cationic Dyes to Silica Sol-Gel*  
Zachary Struzik, Lewis University

**2:00-2:20 p.m.**

*Analysis of the Effect of Alkaline Hydrolysis Cremation on Mineral and Trace Metals in Bone*  
Rebekah Quickel, California University of Pennsylvania

### **DUNN HALL 225 / 227**

#### **Chemistry**

**1:20-1:40 p.m.**

*Synthesis of a Tetra-aza Ligand for the Separation of Lanthanides and Actinides*  
Rachel Stadler, Salisbury University

**1:40-2:00 p.m.**

*Synthesis, Electrochemistry and Spectroscopic Characterization of Substituted Metallo-bis-dipyrromethene Complexes*  
Gael Gonzalez-Peltier, Midwestern State University

**2:00-2:20 p.m.**

*Virtual Reality In Chemistry*  
Daniel Heinen, Massachusetts College of Liberal Arts

### **DUNN HALL 233**

#### **Ecology & Organismal Biology**

**1:20-1:40 p.m.**

*The Scouring Effect of Flooding from Hurricane Matthew on Community Structure in Lotic Ecosystems.*  
Cecilia Moya, William Peace University

**1:40-2:00 p.m.**

*Understanding and Visualizing the Spatial Ecology of Painted Turtle Populations in Eastern Pennsylvania*  
Shelby Does, Moravian College

### **DUNN HALL 249 / 251**

#### **Mathematics**

**2:00-2:20 p.m.**

*A Sharp Upper Bound on the K-Color Connection Number of a Graph*  
Adam Jump, Salisbury University

### **DUNN HALL 351**

#### **Health Sciences**

**1:20-1:40 p.m.**

*Relationships Between Sleep Quality and Cognitive Function in Postmenopausal Women with Early Stage Breast Cancer*  
Michelle Sech, University of Pittsburgh School of Nursing

**1:40-2:00 p.m.**

*The Analysis of Kinematic Variables in the Snatch: Are Bar Trajectories Predictive of Successful Performance*  
Donald Tredway, Radford University

**2:00-2:20 p.m.**

*The Effect of Fatigue on the King-Devick Concussion Test: Wheelchair Rugby*  
Amanda Joyce, Radford University

### **ENGINEERING SCIENCE BUILDING 218**

#### **Biomedical Engineering**

**1:20-1:40 p.m.**

*Real-Time Analysis of Electrical Activity in Cardiac Tissue*  
Reggie Pruitt, University of Memphis

**1:40-2:00 p.m.**

*Scaffold-Free Tissue Engineering of Lower Limb Peripheral Nerve Tissue with Ultrasound*  
Samantha Hamner, Utah Valley University

**2:00-2:20 p.m.**

*Utilizing SRS Microscopy for Detection of Human Brain Tumor Infiltration*  
Mia Garrard, University of Michigan

## Student Oral Session 7 - Fri 1:20pm-2:20pm

### **ENGINEERING SCIENCE BUILDING 220**

#### **Electrical Engineering**

**1:40-2:00 p.m.**

*Water Quality Study for Microcystin Detection Using Colorimetric Gold Nanoparticles*  
Devesh Mohan, Iowa State University

#### **Environmental Engineering**

**2:00-2:20 p.m.**

*Developing Carbon Nitride for Improved Chemical Waste Treatment*  
Areeg Abd-Alla, Hamline University

### **ENGINEERING SCIENCE BUILDING 222**

#### **Mechanical Engineering**

**1:20-1:40 p.m.**

*Generating Real-Time Musculoskeletal Models Using a Motion Capture System*  
Aminah Tamimi, California State University - Long Beach

**1:40-2:00 p.m.**

*Heat Transfer Technology to Convert Plastic Trash to Oil Fuel*  
Zhiqi Mao, Midwestern State University

### **FOGELMAN CLASSROOM BUILDING 125**

#### **Marketing**

**1:40-2:00 p.m.**

*Social Media as a Hollywood Marketing Tool*  
Sarah Murray, Fordham University

### **FOGELMAN CLASSROOM BUILDING 127**

#### **Economics**

**1:20-1:40 p.m.**

*Financing Public Service Delivery Through Voluntary Neighborhood Associations*  
Turner Clark, University of Illinois at Springfield

**1:40-2:00 p.m.**

*Gender Equality Development: A Study of the Effects of Gender Equality on Economic Growth*  
Jason Hall, Seattle University

### **FOGELMAN CLASSROOM BUILDING 131**

#### **Economics**

**1:20-1:40 p.m.**

*Head Trauma in Mixed Martial Arts: An Analysis of Fighter Earnings at the Expense of Mental Health*  
Mitchell Clements, Eastern Washington University

**1:40-2:00 p.m.**

*Unintended Impacts: The Impact of the Harlem Children's Zone on Housing Prices in New York City*  
Owen Goetze, Seattle University

**2:00-2:20 p.m.**

*Preservation Through Revitalization: Economic Impact of Historic Macon Foundation*  
Aaron Scherf, Mercer University

### **FOGELMAN CLASSROOM BUILDING 133**

#### **Microbiology & Immunology**

**1:20-1:40 p.m.**

*Surface Proteins of Infection Derived Exosomes Induce Bacterial Clearance in Naïve Human Monocytes and Monocyte to Macrophage Differentiation*  
Veronika Lozano, George Mason University

**1:40-2:00 p.m.**

*Triclosan Exposure and Its Impact on Multidrug Resistance in Enterobacter and Staphylococcus Environmental Isolates*  
Julianna Marotta, Cedar Crest College

### **FOGELMAN CLASSROOM BUILDING 259**

#### **Physics**

**1:20-1:40 p.m.**

*A Matched-Filter Search for Binary Black Hole Mergers in Advanced LIGOs First Observing Run*  
Hannah Hamilton, Abilene Christian University

**1:40-2:00 p.m.**

*Acoustic Investigation of Buried Objects*  
William Grismore, Presbyterian College

**2:00-2:20 p.m.**

*Beam-foil Measurement of the Lifetime of Ge II 4s<sup>2</sup> 4d ^2D\_3/2 Level.*  
Sanskars Basnet, University of Toledo

## Student Oral Session 7 - Fri 1:20pm-2:20pm

### **FOGELMAN CLASSROOM BUILDING 261**

#### **Physics**

**1:40-2:00 p.m.**

*Spectral Peak Density as a Robust Parameter for the Analysis of Breast Cancer Surgical Margins and Sentinel Lymph Nodes*

Zachary Coffman, Utah Valley University

**2:00-2:20 p.m.**

*Stacking Fault Energies of Ni<sub>3</sub>Al*

Hunter Gore, University of Memphis

### **FOGELMAN CLASSROOM BUILDING 262**

#### **Public Health**

**1:20-1:40 p.m.**

*How Do Hispanic/Latino Children View Their Health?*

Maricruz Moya, Wayne State University

**1:40-2:00 p.m.**

*Incentivizing Quality in Government Healthcare*

*Programs: Do Shared Saving Programs Improve Health Outcomes?*

Katherine Stevens, Lafayette College

**2:00-2:20 p.m.**

*Perceived Value of Eye Care Services Among Inhabitants of Southern Ghana*

Darius Baradaran, Brigham Young University

### **FOGELMAN CLASSROOM BUILDING 264**

#### **International Studies**

**1:40-2:00 p.m.**

*Power Relations in Development Work: The Experiences of Ethiopian Women in a Gender Development INGO*

Temer Gaim, Long Island University

**2:00-2:20 p.m.**

*Pragmatic or Ideological? A Discourse Analysis of the Government of Recep Tayyip Erdogan*

Elena Woods, American University

### **JONES HALL 200**

#### **Education**

**1:20-1:40 p.m.**

*Educational Experience of Undocumented Students in the New Political Climate*

Natalie Giron, American University

**1:40-2:00 p.m.**

*Effects of Proficient Reader Strategies on Reading Comprehension and Writing Proficiency*

Ronnie Roberts, Austin PEAY State University

**2:00-2:20 p.m.**

*Emotional Behavioral Disability Prevalence Trends in Virginia and Teacher Efficacy*

Amanda Kousen, James Madison University

### **JONES HALL 212**

#### **Literature**

**1:40-2:00 p.m.**

*Escapee Veiled in a Seduced Suicide: Achieving Autonomy in Lin Yutang's Moment in Peking*

Anesce Dremen, Carthage College

**2:00-2:20 p.m.**

*Examining Parallels Between 20th Century Evangelical Fundamentalism, 20th Century Feminist Liberation Theology, and Expressions of Spirituality in Margaret Atwood's The Handmaid's Tale*

Kirby Jones, Meredith College

### **JONES HALL 214**

#### **Literature**

**1:20-1:40 p.m.**

*Sunrise to Sunset: The Relationship Between Science Fiction and Medical Advances in Reproductive and Longevity Technologies*

Nicole Cotton, Ohio State University

**1:40-2:00 p.m.**

*Teaching Critical Literacy Through Dystopian Young Adult Fiction*

Amanda Liu, University of Central Oklahoma

## Student Oral Session 7 - Fri 1:20pm-2:20pm

### **2:00-2:20 p.m.**

*Tensions and Truths: Nathaniel Hawthorne's Literary Reputation and Biographical Criticism as Evaluative Standards for The Scarlet Letter*  
Alyssa Rogan, Houghton College

### **JONES HALL 218**

#### **English**

##### **1:20-1:40 p.m.**

*"Injuring Her Beauty by Study": Women and Classical Learning in Frances Burney's Novels*  
Stephanie Diehl, Bridgewater State University

##### **1:40-2:00 p.m.**

*"Once More Unto the Breach, (Again)": An In-Depth Analysis of the Representation of Conflict in Film Adaptations of Shakespeare's Henry V*  
Charles Hawes, Elon University

##### **2:00-2:20 p.m.**

*"The Sun Shines To-day Also": A Modern Reflection of Transcendental Tradition in the Works of Wendell Berry*  
Nikki Jones, Western Carolina University

### **JONES HALL 226**

#### **English**

##### **1:20-1:40 p.m.**

*Far from "Mere": Similarities in Poe's "The Black Cat" and Gilman's "The Yellow Wall-paper"*  
Hallie West, Western Carolina University

##### **1:40-2:00 p.m.**

*Female Liberation and Spiritual Freedom in The Invention of Wings and Esther*  
Emma Culler, Anderson College

##### **2:00-2:20 p.m.**

*From "Thieves Literature" and Dicken's Oliver Twist to Working Class "Penny Readings"*  
Shannon Barry, Salisbury University

### **JONES HALL 237**

#### **Education**

##### **1:20-1:40 p.m.**

*Using Computer Programming to Improve the Ability to Generalize Mathematical Concepts*  
Katelyn Payton-Page, University of North Alabama

##### **1:40-2:00 p.m.**

*What Do Undergraduates Learn About Human Intelligence?*  
Mayson Astle, Utah Valley University

##### **2:00-2:20 p.m.**

*Writing for a Better World: An Examination of Differences Between 3 Student Populations in Benefits Associated with Write Local Workshops*  
Kirra Lent, California University of Pennsylvania

### **JONES HALL 239**

#### **English**

##### **1:20-1:40 p.m.**

*The Nether: "You Want to Sell It to Disney?; a Closer Look at the Language of Spaces, Power, and Identity*  
Kendall Kartaly, Valparaiso University

##### **1:40-2:00 p.m.**

*Traces of the Past: Neo-colonialism in Jessica Hagedorn's Dream Jungle*  
Jennifer Khin, University of the Pacific

##### **2:00-2:20 p.m.**

*Transcending Modernism: The Graphic Novel as Postmodern Form*  
Stephanie Passialis, North Central College

### **JONES HALL 243**

#### **Philosophy & Ethics**

##### **1:20-1:40 p.m.**

*Humanization of the Enemy: The Pacifist Soldier and France in World War One*  
Daniel Stockman, Dominican University of California

##### **1:40-2:00 p.m.**

*Kant, Habermas, and the Cosmopolitan Agenda*  
Corey Horn, Eastern Washington University

## Student Oral Session 7 - Fri 1:20pm-2:20pm

### **2:00-2:20 p.m.**

*Language in Politics: A Philosophical and Rhetorical Analysis of How Language Has Shaped the Clinton Email Debate*

Jonathan Toronto, Utah State University

### **JONES HALL 249**

#### **English**

##### **1:20-1:40 p.m.**

*Railroad Literature as Seen by an Engineer: The Junction of Two Trains of Thought*

Silvia Smith, Utah State University

##### **1:40-2:00 p.m.**

*Raphael: The Arch-angel Who Said Too Much or The Right Being for The Job in Milton's Paradise Lost?*

Jordan Freeman, Western Carolina University

##### **2:00-2:20 p.m.**

*Reader, I Reject Your Incredulity: Direct Address of the Reader in Jane Eyre and Incidents in the Life of a Slave Girl*

Emily Osborne, Luther College

### **MANNING HALL 202**

#### **Kinesiology & Exercise Science**

##### **1:20-1:40 p.m.**

*The Infamous Freshman 15: Freshman Behaviors Related to Weight Gain*

Brisa Rodriguez, Our Lady of the Lake University

#### **Nutrition**

##### **2:00-2:20 p.m.**

*Dietary Supplementation with Tart Cherries for Prevention of Inflammation-associated Colorectal Cancer in Mice*

Ashli Hunter, Utah State University

### **MANNING HALL 204**

#### **History**

##### **1:20-1:40 p.m.**

*Chilean Winter*

Samuel Pickett, Indiana University

### **1:40-2:00 p.m.**

*Christian Minority Status in the Late Ottoman Empire*

Taylor Jipp, University of Oklahoma Norman Campus

##### **2:00-2:20 p.m.**

*Comfort Zoned: The Culture Within American Discretionary Zoning as Seen Through Longview, Texas*

Hannah Ratzlaff, John Brown University

### **MANNING HALL 222**

#### **History**

##### **1:20-1:40 p.m.**

*Post-Traumatic Stress Disorder: The Endless War in the Life of North Vietnamese Veterans*

Chi Ha, Texas Tech University

##### **1:40-2:00 p.m.**

*Rafael Leonidas Trujillo*

Yisely Arias, Kean University

##### **2:00-2:20 p.m.**

*Reagan's Framing of the Iran-Contra Affair*

Blake Bergstrom, James Madison University

### **MANNING HALL 318**

#### **Communications**

##### **2:00-2:20 p.m.**

*Peace on the Homefront: Addressing Moral Injury in Monterey County Veterans*

Robert Jensen, California State University Monterey Bay

### **MANNING HALL 320**

#### **Women, Gender, and Sexuality Studies**

##### **2:00-2:20 p.m.**

*Las Lentes Violetas: Feminist Movements in the Universities in the Region of Valparaiso, Chile*

Rachel Willis, Duquesne University

### **MANNING HALL 332**

#### **Interdisciplinary Studies**

##### **1:20-1:40 p.m.**

*Scripture Like a River: The Appeal of Modern Adult Catechetical Programs to Jungian Psychological Preferences*

Elise Ketch, Virginia Commonwealth University

## Student Oral Session 7 - Fri 1:20pm-2:20pm

### **1:40-2:00 p.m.**

*Study of Western Media on Urbanization in China from 1978 to 2012*  
Colleen Kremer, Hendrix College

### **2:00-2:20 p.m.**

*The Hadhrami Diaspora: Islam and Indian Ocean Connectivity*  
Tawfiq Alhamed, Lafayette College

### **MANNING HALL 340**

#### **Social Work**

### **1:20-1:40 p.m.**

*Police Assisting Addicts Towards Recovery*  
Sherah Dickinson, University of Nebraska at Kearney

### **1:40-2:00 p.m.**

*Reducing Food Insecurity by Organizing Resources Within Rural Communities*  
Andrea Bird, Tarleton State University

### **2:00-2:20 p.m.**

*Temporal Analysis for Runaways at Residential Youth Centers*  
Paisley Heckman, Eastern Washington University

### **MANNING HALL 413**

#### **Computer Science**

### **1:40-2:00 p.m.**

*Investigating and Developing a Cost-Effective Modular Drone-Based Sensor Package with a Raspberry Pi*  
Philip Costello, Randolph - Macon College

### **2:00-2:20 p.m.**

*Is Dating Advice from Artificial Intelligence More Trustworthy Than Dating Advice Received from Humans?*  
Hannah Hopkins, University of North Alabama

#### **Information Technology**

### **1:20-1:40 p.m.**

*Developing a Deformable Prototype to Control a Mobile Screen Read for Blind Users*  
Travis Swan, Carleton University

### **MANNING HALL 417**

#### **Sociology**

### **1:20-1:40 p.m.**

*Misunderstanding the Modern Maya*  
Sierra Sotelo, Middle Tennessee State University

### **1:40-2:00 p.m.**

*Music Deserts: How Social Inequality Affects Accessibility to Musical Resources Important to Actively Participating in Music*  
Everardo Reyes, University of Northern Colorado

### **MANNING HALL 426**

#### **Religious Studies**

### **1:20-1:40 p.m.**

*Desmond Tutu's Influence in Apartheid South Africa: The Reconciliation of a Broken Gospel in the Restoration of a Divided Nation*  
Emily Owens, Valparaiso University

### **1:40-2:00 p.m.**

*Developing a Religious Diversity Profile of San Antonio*  
Benjamin Collinger, Trinity University

### **2:00-2:20 p.m.**

*Distinctive Coexistence: A Look at Balancing the Identities of the Institution and the Individual in Pluralistic Societies*  
Maria Bruno, Valparaiso University

### **MEEMAN JOURNALISM 106**

#### **Political Science**

### **1:20-1:40 p.m.**

*Short and Focused: An Analysis of the Evidentiary Struggles of the International Criminal Court on Sex Crimes Prosecution*  
Eric Smith, Valparaiso University

### **2:00-2:20 p.m.**

*Supranational Unions' Effect on Bilateral Trade*  
Jamie Livingston, Sonoma State University

## Student Oral Session 7 - Fri 1:20pm-2:20pm

### **MEEMAN JOURNALISM 112**

#### **Political Science**

**1:20-1:40 p.m.**

*Democracy in Plato's Republic and Aristotle's Politics*  
Meredith Gerber, University of West Florida

**1:40-2:00 p.m.**

*Demographic Change and the Decline of Japanese Power*  
Jacob Riddle, University of Memphis

**2:00-2:20 p.m.**

*Effects of Polarization in Congress on Government Relations*  
Samantha Maciel, Dominican University of California

### **MEEMAN JOURNALISM 204**

#### **Law & Legal Studies**

**1:40-2:00 p.m.**

*The Effects of Unequal State Funding on Criminal Justice Outcomes*  
Ryne Duffy, American University

**2:00-2:20 p.m.**

*The Historical Evolution of Laws Involving Sex Trafficking Within the United States*  
Casey Phillips, Ithaca College

### **PSYCHOLOGY AUDITORIUM A0200**

#### **Experimental Psychology**

**1:20-1:40 p.m.**

*Joining Hands: Constructing Childhood Agency in the Context of Ageism*  
Brittany Churchill, Bridgewater State University

**1:40-2:00 p.m.**

*Linguistic Framing Effects on Charitable Donation Requests*  
Anne Phelan, Elon University

### **PSYCHOLOGY BUILDING 204**

#### **Clinical Psychology**

**1:20-1:40 p.m.**

*Examining the Relationship Between Hawaiian Cultural Practices and Moral Development*  
Christina Rezentes, Dominican University of California

**1:40-2:00 p.m.**

*Extending the Behavioral Risk Factor Surveillance System to the Bethel College Campus for Assessment of Mental Health and Mental Health Stigma*  
Lila Tibbets, Bethel College

**2:00-2:20 p.m.**

*Fredrickson's Broaden and Build Theory Correlate with Adolescent Life and Educational Satisfaction*  
Fabiola Vargas, Abilene Christian University

### **PSYCHOLOGY BUILDING 206**

#### **Cognitive Neuroscience**

**1:20-1:40 p.m.**

*Influence of Proprioception and Vision in Motor Generalization*  
Katrina Colucci Chang, George Mason University

**1:40-2:00 p.m.**

*Meta-analysis of Face Processing in Autism Spectrum Disorders and Its Relationship to Neuroanatomical Divisions of the Fusiform Gyrus*  
Mary-Elizabeth Winslett, University of Alabama at Birmingham

**2:00-2:20 p.m.**

*Methylene Blue: A Novel Disease Modifying Drug for Early Intervention in Parkinson's Disease*  
Natalie Rosas, Our Lady of the Lake University

### **PSYCHOLOGY BUILDING 230**

#### **Geography & Earth Sciences**

**1:20-1:40 p.m.**

*Geochemical and Sociological Study of Backyard Wells in Utah Valley, Utah*  
Janelle Gherasim, Utah Valley University

## **Student Oral Session 8 - Fri 2:40pm-3:40pm**

### **1:40-2:00 p.m.**

*Greenhouse Gas Emission and Water Quality Quantification Along Saturated Buffer Strip of Bear Creek*  
Timothy King, Iowa State University

### **2:00-2:20 p.m.**

*Health of Women and Families in Samburu, Kenya: Chief Concerns and Treatments*  
Sara Hines, Colorado State - Colorado State University-Cooperative Extension- Jefferson Co

## **PSYCHOLOGY BUILDING 244**

### **Nutrition**

### **1:20-1:40 p.m.**

*Implementing a Successful Elementary School Vegetable Snack Program*  
Josh Bodnar, University of Wisconsin - Eau Claire

### **1:40-2:00 p.m.**

*Analyzing Group and Individual Consumption Effects from an Elementary School Vegetable Snack Program*  
Kjirstin Martell, University of Wisconsin - Eau Claire

## **Student Oral Session 8 - Fri 2:40pm-3:40pm**

## **ART AND COMMUNICATION 257**

### **Art History**

### **2:40-3:00 p.m.**

*Meaning-making Through Signage in the Virginia Museum of Fine Arts*  
Caroline Meyers, Virginia Commonwealth University

### **3:00-3:20 p.m.**

*Minkisi and Mintadi of the Kongo Kingdom: Symbols of Religious Identity and Cultural Exchange*  
Mattie Barlow, University of Central Oklahoma

### **3:20-3:40 p.m.**

*Pompeii: An Erotic Experience*  
Emma Osle, Kutztown University

## **ART AND COMMUNICATION 310**

### **Music**

### **2:40-3:00 p.m.**

*The Partimento Tradition in the Shadow of Enlightenment Thought*  
Deborah Longenecker, Cedarville University

### **3:20-3:40 p.m.**

*What Mozart Is in the Mozart Effect?*  
Timothy Malone, William Paterson University

## **COMMUNICATION AND FINE ARTS 124**

### **Theatre/Drama Performance**

### **2:40-3:00 p.m.**

*Erin Pike: Unapologetic Feminist*  
Kallie Ford, University of Central Oklahoma

## **DUNN HALL 103 / 105**

### **Anthropology**

### **2:40-3:00 p.m.**

*Academic Success of 1.5 Generation Cambodian American Students*  
Kassandra Chhay, California State University - Long Beach

## Student Oral Session 8 - Fri 2:40pm-3:40pm

**3:00-3:20 p.m.**

*An Exploration of the Multifaceted Dakota Access Pipeline Issue*  
Rohini Singh, University of Wisconsin - Stout

**3:20-3:40 p.m.**

*An Inside View: Childhood Stress at the Greek Colony, Himera*  
Melissa Chowning, University of Northern Colorado

### **DUNN HALL 107**

**Anthropology**

**2:40-3:00 p.m.**

*The Deviant Burials of Classical Athens*  
Ena Prskalo, University of North Carolina at Greensboro

**3:20-3:40 p.m.**

*The Queer Agenda: Post-Structuralism*  
Zac Jones, University of Kentucky

### **DUNN HALL 119 / 121**

**Biology**

**2:40-3:00 p.m.**

*Bacterial Endophytes in Seeds with High and Low Melatonin Content: Survival Implications*  
Meaghan Rose, Midwestern State University

**3:20-3:40 p.m.**

*Bioproduction and Anti-Obesity Properties of Peanut Stilbenoids*  
Alexis Philippe, Arkansas State University

### **DUNN HALL 123/125**

**Biology**

**3:00-3:20 p.m.**

*Incorporating Model Selection in Predicting the Spread of Invasive Fungal Pathogen Batrachochytrium salamandrivorans*  
Tatum Katz, Occidental College-

**3:20-3:40 p.m.**

*Investigating Diptera Arrival Times in Southern Wisconsin and Cadaver Temperatures*  
Reyna Buchroeder, University of Wisconsin - Whitewater

### **DUNN HALL 124**

**Cell & Molecular Biology**

**2:40-3:00 p.m.**

*Investigating RLS1 Localization and the Evolutionary Origins of Cellular Differentiation*  
Rima Sakhawala, University of Maryland, Baltimore County

**3:00-3:20 p.m.**

*Investigating the Role of Feeding-Related Peptides on Mammalian Suckling*  
Fathima Mohamed, Hamline University

**3:20-3:40 p.m.**

*JMJD3 Binding Sites Interact with Promoter Regions in Naïve CD4+ T Cell Activation*  
Alicia Aguilar, Oklahoma State University

### **DUNN HALL 129**

**Chemistry**

**2:40-3:00 p.m.**

*Application of Ascorbic Acid for the Remediation of Hexavalent Chromium Contaminated Water*  
Erika Pacas, City University of New York- Guttman Community College

**3:00-3:20 p.m.**

*Augmented Reality In Chemistry*  
Peter Chase, Massachusetts College of Liberal Arts

**3:20-3:40 p.m.**

*Complexation of Borinic Acid Derivatives with Lewis Bases*  
Nancy Wiebelhaus, Western Carolina University

### **DUNN HALL 225 / 227**

**Chemistry**

**2:40-3:00 p.m.**

*Tuning Smart Properties of mPEG-block-PDMAEMA Through Polymer Composition*  
Brianna Shoulak, University of Wisconsin - Eau Claire

## Student Oral Session 8 - Fri 2:40pm-3:40pm

### **3:00-3:20 p.m.**

*The Engineering of Metal Complexes: Synthesizing Mixed Carboxylate Diisomium Carbonyl Sawhorse Compounds*  
James Johnstone, Abilene Christian University

### **3:20-3:40 p.m.**

*Symmetric Complexation of Boronic Acids with Ditopic Lewis Bases*  
Emily Pounds, Western Carolina University

### **DUNN HALL 233**

#### **Environmental Studies & Sciences**

### **2:40-3:00 p.m.**

*Effects of Metformin on Growth and Appetite in Juvenile Fathead Minnows (*Pimephales promelas*) After 7-Day Chronic Exposures*  
Caitlyn Patullo, Ithaca College

### **3:00-3:20 p.m.**

*Fish and Pharmaceuticals: The Effect of Venlafaxine on Swimming Behavior of Fathead Minnows*  
Rachel Barone, Ithaca College

### **3:20-3:40 p.m.**

*Effects of Mangrove Deforestation on Near-shore Coral Reefs*  
Aislyn Keyes, University of Minnesota, Twin Cities

### **DUNN HALL 249 / 251**

#### **Mathematics**

### **2:40-3:00 p.m.**

*An Insertion Algorithm for Acyclic Orientations*  
Robert Ross, Drexel University

### **3:00-3:20 p.m.**

*Analyzing the Protein-Protein Interaction Network of TNF-alpha*  
Alan Amaya, University of the Incarnate Word

### **3:20-3:40 p.m.**

*Convexity of Neural Codes*  
Ruby Bayliss, St. Catherine University

### **DUNN HALL 351**

#### **Health Sciences**

### **2:40-3:00 p.m.**

*The Impact of Contraceptive Counseling on College-aged Women*  
Grace King, University of North Carolina - Asheville

### **3:00-3:20 p.m.**

*The Moderating Effects of Sex and Personality on Heart Rate Variability and Blood Pressure Response to Stress*  
Jonathan Golden, Georgia College and State University

### **3:20-3:40 p.m.**

*The Racial Diversity of Residency Programs and Medical Interns' Depression*  
Jad Elharake, University of Michigan

### **ENGINEERING SCIENCE BUILDING 218**

#### **Chemical Engineering**

### **2:40-3:00 p.m.**

*Cannabinoid Pharmacokinetic Modeling*  
Jacquelyn Lane, Oklahoma State University

### **3:00-3:20 p.m.**

*Characterization of Antarctic Algae for Biofuel Potential*  
Emily Hultin, Montana State University Bozeman

### **3:20-3:40 p.m.**

*Effect of Additives on Reduction Potential for Electroplating Battery Anodes*  
Callum Breene, University of Rochester

### **ENGINEERING SCIENCE BUILDING 220**

#### **Engineering/Engineering Technology**

### **2:40-3:00 p.m.**

*52 Card Robotic Vision System Sort Process*  
Kyle Schmidkofler, Eastern Washington University

### **3:00-3:20 p.m.**

*APSU High Altitude Ballooning*  
Jacob Robertson, Austin PEAY State University

### **3:20-3:40 p.m.**

*Bicycle Device Charger*  
Tristen Bryce, Metropolitan State University of Denver

## Student Oral Session 8 - Fri 2:40pm-3:40pm

### **ENGINEERING SCIENCE BUILDING 222**

#### **Mechanical Engineering**

**2:40-3:00 p.m.**

*Influence of Submergence Depth on Harvesting River Kinetic Energy*

David Palmer, University of Memphis

**3:00-3:20 p.m.**

*Intelligent Robotics Using Computer Vision*

Xitong Li, Midwestern State University

**3:20-3:40 p.m.**

*Investigation of Mechanical Property Sensitivity With Respect to Processing Temperatures for A-2 Steel*

Martin Mekhail, James Madison University

### **FOGELMAN CLASSROOM BUILDING 125**

#### **Marketing**

**3:00-3:20 p.m.**

*Versions of the Truth: Exploring the Motivating Factors for Consumers to Create Inaccurate Rating and Reviews*

Ravon Bonds, University of Wisconsin - Whitewater

### **FOGELMAN CLASSROOM BUILDING 127**

#### **Economics**

**3:00-3:20 p.m.**

*Lake Erie Water Quality Survey, A Natural Treatment Option to Reduce Harmful Algal Blooms*

Quinton Babcock, University of Toledo

### **FOGELMAN CLASSROOM BUILDING 131**

#### **Economics**

**2:40-3:00 p.m.**

*What Have You Done for Me Lately? A Model of Past Performance on Major League Baseball Player Compensation*

Tamerlane Asher, Lafayette College

### **FOGELMAN CLASSROOM BUILDING 133**

#### **Microbiology & Immunology**

**2:40-3:00 p.m.**

*Understanding the Mechanisms by Which Rho\* Alters Biological Fitness*

Benancio Rodriguez, University of Michigan

**3:00-3:20 p.m.**

*What's an Old Book Good For? Testing an Ayurvedic Cure for Acne*

Byron Hamilton, Guilford College

### **FOGELMAN CLASSROOM BUILDING 259**

#### **Physics**

**3:00-3:20 p.m.**

*Characterization of Cadmium Stannate as a Transparent Conducting Oxide*

Tristan Cabrera, Georgia College and State University

**3:20-3:40 p.m.**

*Characterization of Magnetron Sputtering Plasma Using Optical Emission Spectroscopy*

Rylan Gordon, Georgia College and State University

### **FOGELMAN CLASSROOM BUILDING 261**

#### **Physics**

**2:40-3:00 p.m.**

*Stimulating Sn Whisker Growth with Etchants and Investigating Whisker Growth Mechanisms*

Jonathan Turnley, Presbyterian College

**3:00-3:20 p.m.**

*Superposed Epoch Analysis of Physiological Fluctuations: Possible Space Weather Connections*

Denzel Brown, Presbyterian College

**3:20-3:40 p.m.**

*The Effect of Grain Shape on Side-Wall Pressure in Model Grain Silos*

Salem Wright, Presbyterian College

### **FOGELMAN CLASSROOM BUILDING 262**

#### **Public Health**

**2:40-3:00 p.m.**

*Pokémon Go: Can Catching Them All Motivate People to Walk More?*

Rachael Nevin, Eastern Washington University

**3:20-3:40 p.m.**

*Providing Audiological Services Globally*

Catherine Felicetti, Ithaca College

## Student Oral Session 8 - Fri 2:40pm-3:40pm

### **FOGELMAN CLASSROOM BUILDING 264**

#### **International Studies**

**2:40-3:00 p.m.**

*Providing a Voice to the Voiceless Through Text in Ciro Guerra's "Embrace of the Serpent"*  
Miranda Haney, Salisbury University

**3:00-3:20 p.m.**

*Racial Bias in Epidemic Control in Modern Peru*  
Kaylee Hicks, University of Kentucky

**3:20-3:40 p.m.**

*Radical Islam in Morocco: Are Education and Political Islam Real Solutions?*  
Noelle Zuelke, Long Island University

### **JONES HALL 200**

#### **Education**

**2:40-3:00 p.m.**

*Examining Predictive Efficacy of Dropout Risk Factors at a D.C. Charter School*  
Saagar Gupta, American University

**3:00-3:20 p.m.**

*Expanding Educational Opportunity for Black, Latino and Other Marginalized Youth*  
Fanta Sissoko, Siena College

**3:20-3:40 p.m.**

*Capital in the Colony*  
Marcus Forbes, Occidental College

### **JONES HALL 212**

#### **Literature**

**2:40-3:00 p.m.**

*Frenemies: Disunity of Women in "The Handmaid's Tale"*  
Abigail Fate, Valparaiso University

**3:20-3:40 p.m.**

*From Victorian Fairy Tale to Fantasy Novel: Lilith, "The Golden Bird," "The Twelve Dancing Princesses," and "The Salad"*  
Melissa Allbrandt, Virginia Commonwealth University

### **JONES HALL 214**

#### **Literature**

**2:40-3:00 p.m.**

*That Which We Kindle: Sparks of Fahrenheit 451*  
Kelsey Schaelein, Carthage College

**3:00-3:20 p.m.**

*The Dividing Line Between Us: An Analysis of the Actualized Self in Henry James Novellas*  
Julianna Crame, Eastern Washington University

**3:20-3:40 p.m.**

*The Double and the Uncanny in the Writing of Poe and Dostoyevsky*  
Anastasia Steblina, Truman State University

### **JONES HALL 218**

#### **English**

**2:40-3:00 p.m.**

*"Whoa, Wait. That's Racist": Flannery O'Connor's Critique of Her Contemporary Social Justice Artists*  
Joseph Hawkins, University of West Georgia

**3:00-3:20 p.m.**

*A Man Among Heroes: The Reception of Patroclus in Homer's Iliad*  
Katherine Nazzaro, Bridgewater State University

**3:20-3:40 p.m.**

*A Queer Sense of Place: Elizabeth Bishop's Poetic Cartography and the Resignification of Environments*  
Victoria McCandless, University of Massachusetts Boston

### **JONES HALL 226**

#### **English**

**2:40-3:00 p.m.**

*From Page to Stage: Gender Dynamics in Shakespearean Theater*  
Kathryn Harlan-Gran, University of the Pacific

**3:20-3:40 p.m.**

*Gendered Self-Knowledge and Disempowering Laughter: A Feminist Examination of Humor Dynamics in Jane Austen's Pride and Prejudice*  
Shay King, Carthage College

## Student Oral Session 8 - Fri 2:40pm-3:40pm

### **JONES HALL 237**

#### **Journalism**

**2:40-3:00 p.m.**

*A Vicious Cycle: Do Black Lives Matter to the Media?*  
Ahana Dave, Ithaca College

**3:00-3:20 p.m.**

*Fighting the Floods: An Interactive Documentary Contextualizing Hancock County's Floods and Flood Mitigation*  
Sarah Stubbs, The University of Findlay

**3:20-3:40 p.m.**

*Framing Spatial Anxiety: Joe Sacco's Palestine and the Use of Comics Form for Spatial Critique*  
Marisa Pesa, Capital University

### **JONES HALL 239**

#### **English**

**2:40-3:00 p.m.**

*True Crime as a Literature of Advocacy*  
Leslie Rowen, Bellarmine University

**3:00-3:20 p.m.**

*Ugwu's Biafra: Individual and National Modes of Sovereignty and Resistance in Chimamanda Adichie's Half of a Yellow Sun*  
Samantha Tirrell, Russell Sage College

**3:20-3:40 p.m.**

*Unfocused Rage: A Legal Interpretation of Racial Oppression*  
Angela Grate, Capital University

### **JONES HALL 243**

#### **Philosophy & Ethics**

**2:40-3:00 p.m.**

*Liminal Pawns, Limited Justice: Aristotle's Ethics and Unlearned History*  
Jessica Treijs, Brooklyn College

**3:20-3:40 p.m.**

*Mocking or Memorializing: The Commonalities Between Open Casket Funerals and Posed Homicides*  
Carolyn Click, University of Central Oklahoma

### **JONES HALL 249**

#### **English**

**2:40-3:00 p.m.**

*Real Bodies: Understanding the Importance of Representation in Disability*  
Ashlyn Hart, Eastern Connecticut State University

**3:00-3:20 p.m.**

*Reimagining The Classics: To Kill a Mockingbird, Cognitive Theory, and Interdisciplinary Studies for Secondary Students*  
Kelly Mahaffy, Truman State University

**3:20-3:40 p.m.**

*Remaining in Limbo: The Gray Space of Reproductive Futurity and Queer Time on One's Body as Demonstrated in Arturo Islas' The Rain God*  
Rachel Campbell, State University of New York-Brockport

### **MANNING HALL 202**

#### **Nutrition**

**2:40-3:00 p.m.**

*Establishment of a High Performance Liquid Chromatography Method for Vitamin A in Nutrition Department*  
Marcel Holman, University of Tennessee at Knoxville

**3:20-3:40 p.m.**

*Investigating the Effects of a Non-Profit's Nutrition and Wellness Class on an Immigrant Community*  
Nicole Barnes, American University

### **MANNING HALL 204**

#### **History**

**2:40-3:00 p.m.**

*Connecting the Dots: The Suppression of the African Slave Trade Mapped*  
Katelyn Ziegler, University of Missouri - Columbia

**3:20-3:40 p.m.**

*Digital Autobiographies: the Future of Preservation*  
Kate Albrecht, Creighton University

## Student Oral Session 8 - Fri 2:40pm-3:40pm

### **MANNING HALL 222**

#### **History**

**3:00-3:20 p.m.**

*Road to the Red Olympics: British Responses to the 1980 Moscow Games, 1974-1980.*

Reba Weatherford, Guilford College

**3:20-3:40 p.m.**

*Ross Perot's Quixotic 1992 Presidential Campaign*

Muhammad Sheikh, San Jacinto College Honors Program

### **MANNING HALL 318**

#### **Communications**

**2:40-3:00 p.m.**

*Perceptions of Sequel, Remake, and Superhero Films*

*Among College Students in Utah*

Aaron Hall, Utah Valley University

**3:00-3:20 p.m.**

*Racist Discourse on the Internet: A Study on 4chan.org*

Parker Weaver, Hope College

**3:20-3:40 p.m.**

*Raising Your Own Hero*

Savannah Sasser, University of Central Oklahoma

### **MANNING HALL 320**

#### **Women, Gender, and Sexuality Studies**

**2:40-3:00 p.m.**

*Memes & Methodologies: Internet Scholarship, Gendered Analysis, and Concepts of Success*

Katie Atwell, Appalachian State University

**3:00-3:20 p.m.**

*Narrative of a Dope Black Queen Misunderstood*

Aissatou Diallo, Macaulay Honors College at CUNY

**3:20-3:40 p.m.**

*Observing How Women Are Portrayed on the Covers of Women's Health Magazine*

Melanie King, Eastern Illinois University

### **MANNING HALL 332**

#### **Interdisciplinary Studies**

**2:40-3:00 p.m.**

*The Patron's Pyramid: Social Networks, Patronage, and Collective Action in Turkish Politics*

Matthew Lillehaugen, Concordia College - Moorhead

**3:00-3:20 p.m.**

*Understanding Factors That Influence Young Adult Leaders in Their Guidance of Young Adults Regarding Perceptions of the Compatibility of Origins Issues and the Christian Faith*

Bryson Menke, Point Loma Nazarene University

#### **Religious Studies**

**3:20-3:40 p.m.**

*On the Many Names of C.S. Lewis's Aslan*

Christopher Thiessen, Trevecca Nazarene University

### **MANNING HALL 340**

#### **Social Work**

**2:40-3:00 p.m.**

*The Opiate Epidemic's Ground Zero: An Interpretative Phenomenological Analysis of Scioto County, Ohio Residents' Lived Experiences of Residing in the Heart of the Nation's Opiate Epidemic*

Mary Martin, Miami University

**3:00-3:20 p.m.**

*The Perpetuation of Victorian Sexual Mores in Modern American Culture*

Emily Long, Capital University

#### **Sociology**

**3:20-3:40 p.m.**

*Integrating Cultural and Ethnic Programming: Syrian Refugees in Germany*

Lauren Kanady, North Central College

### **MANNING HALL 413**

#### **Computer Science**

**2:40-3:00 p.m.**

*Modeling eBook Sales Rank in the Amazon Marketplace: A Machine Learning Approach*

Kevin Alvarez, Appalachian State University

## Student Oral Session 8 - Fri 2:40pm-3:40pm

### **3:00-3:20 p.m.**

*Personality Traits Across Multiple Tasks*  
Kyler Ross, Southern Nazarene University

### **3:20-3:40 p.m.**

*Programming Modern Design*  
Alisha Sprinkle, Appalachian State University

## **MANNING HALL 417**

### **Sociology**

### **2:40-3:00 p.m.**

*Poor Housing and Poor Health: Housing Conditions in Greensboro NC*  
Holly Brown, University of North Carolina at Greensboro

### **3:00-3:20 p.m.**

*Power in Connectivity: Social Capital and BMP Lease Agreements*  
Alexis Econie, Illinois State University

### **3:20-3:40 p.m.**

*Qualitative Study: Intergenerational Intimate Partner Violence*  
Ella McCalidaine, Eastern Washington University

## **MANNING HALL 426**

### **Religious Studies**

### **2:40-3:00 p.m.**

*Early Israelite Henotheism*  
Jacob Oakley, University of Central Oklahoma

### **3:00-3:20 p.m.**

*Examining Religion's Role in Shaping Sexual Attitudes and Behaviors Among U.S. Latinas*  
Daniela Sostaita, Elon University

### **3:20-3:40 p.m.**

*Finding Meaning Despite Suffering and Trauma: The Myth of Sisyphus and the Book of Ecclesiastes*  
Amanda Nameniuk, Concordia College - Moorhead

## **MEEMAN JOURNALISM 106**

### **Political Science**

### **2:40-3:00 p.m.**

*The Crisis of Modernity: Liberal Democracy and the Road Toward Illiberal Democracy in the West*  
John Bevacqua, American University

### **3:20-3:40 p.m.**

*The Effect of Previous Economic Performance on Hispanic Voting at Future Presidential Elections*  
Bryce Redmond, Florida Atlantic University

## **MEEMAN JOURNALISM 112**

### **Political Science**

### **2:40-3:00 p.m.**

*Elbridge Gerry-A Man of Compromise*  
Rebecca Cote, University of West Florida

### **3:00-3:20 p.m.**

*Exploring Utopia: Imagining the Possible*  
Alyssa Massey, Salisbury University

### **3:20-3:40 p.m.**

*Foreign Direct Investment's Effect on Political Stability in Developing Countries: Solving the Endogeneity Problem*  
Timothy Melton, University of Kentucky

## **MEEMAN JOURNALISM 204**

### **Law & Legal Studies**

### **2:40-3:00 p.m.**

*The Legal Aspects of the Technology Providing Captioning for Broadway Productions*  
Nicole Cardascia, Ithaca College

### **3:00-3:20 p.m.**

*The Philosophical and Legal Implications of the Animal Welfare Act and Their Definition of an "Animal"*  
Julia Bates, Ithaca College

### **3:20-3:40 p.m.**

*Victims or Victimizer? An Analysis of American Media Perception of Juvenile Delinquency*  
Lucia Rose, American University

## Student Oral Session 8 - Fri 2:40pm-3:40pm

### PSYCHOLOGY AUDITORIUM A0200

#### Experimental Psychology

**2:40-3:00 p.m.**

*Mindfulness and Work-Life Balance in Adults*

Jamie Tombari, State University of New York-Brockport

**3:20-3:40 p.m.**

*Parents' Perceptions of the Benefits of Practices Used by Child Life Specialists to Improve the Hospitalization Experience: A Phenomenological Approach*

Annie Bailey, Abilene Christian University

**3:00-3:20 p.m.**

*Implications of the Medieval Climate Anomaly on the Great Plains of North America*

Maraina Miles, Slippery Rock University of Pennsylvania

**3:20-3:40 p.m.**

*Increases in Coastal Flooding in Norfolk, Virginia Due to Local Sea Level Rise as a Threat to Critical Facilities and Emergency Medical Care*

Renee Garrow, Virginia Commonwealth University

### PSYCHOLOGY BUILDING 204

#### Clinical Psychology

**2:40-3:00 p.m.**

*Full Stem Ahead: Attitudes About Gender Inequities in STEM & Leadership*

Zarita Johnson, Dominican University of California

### PSYCHOLOGY BUILDING 206

#### Cognitive Neuroscience

**2:40-3:00 p.m.**

*N1 to Distractor Tones Is Affected by Tone Salience and Primary Task Difficulty*

Andrea Perez-Munoz, Christian Brothers University

**3:00-3:20 p.m.**

*Neuroarchaeology: An Interdisciplinary Field*

Emily Jennings, University of Alabama at Birmingham

**3:20-3:40 p.m.**

*No Natural Gender Differences in Children's Earliest Quantitative Abilities*

Kelsey Csumitta, University of Rochester

### PSYCHOLOGY BUILDING 230

#### Geography & Earth Sciences

**2:40-3:00 p.m.**

*How Much Do the Physical Site Characteristics Explain the Distribution of Tree Species in a Forest?*

Samuel Long, Georgia College and State University

## Student Oral Session 9 - Fri 4:00pm-5:00pm

### **Student Oral Session 9 - Fri 4:00pm-5:00pm**

#### **ART AND COMMUNICATION 257**

##### **Art History**

**4:00-4:20 p.m.**

*Portals of the Damned*

Rebekah James, University of West Florida

**4:20-4:40 p.m.**

*Qajar Academic Painting and the Perception of Women*

Emma Shouse, Truman State University

**4:40-5:00 p.m.**

*Queer Artists and Camp Tactics in the 1960's and 70's*

Denise Wakeman, University of Memphis

#### **DUNN HALL 103 / 105**

##### **Anthropology**

**4:00-4:20 p.m.**

*Beyond Gender Archetypes: Recent Changes in Gender Depictions in Video Games*

Sara Swett, Eastern Washington University

**4:40-5:00 p.m.**

*How Players' Identities Affect Their Experiences with Single Player Role-Playing Games*

Olivia Manusia, Eastern Washington University

#### **DUNN HALL 107**

##### **Anthropology**

**4:00-4:20 p.m.**

*The Wild West of Weed: Activism, Business, and Changing Legislation*

Joseph Orman, University of Rochester

**4:20-4:40 p.m.**

*Trails as Transportation: Perceptions of Trail Accessibility, Safety, and Walkability on the Carrollton, Georgia Greenbelt*

Daniel Garner, University of West Georgia

#### **DUNN HALL 109**

##### **Biochemistry**

**4:00-4:20 p.m.**

*Selectivity, Cooperativity, And Competition In The Binding of Heterocyclic Diamidines To DNA*  
Javier Valdes, Florida International University

**4:20-4:40 p.m.**

*Alanine Scanning Mutagenesis of MsbA, a Bacterial ABC Transporter*

Cora Petersen, Lubbock Christian University

**4:40-5:00 p.m.**

*Bcl-2 Regulation of Sepsis-Associated Acute Kidney Injury*

Kyle Lynch, Elon University

#### **DUNN HALL 119 / 121**

##### **Biology**

**4:00-4:20 p.m.**

*Characterizing the Role of SIRT5 in Cancer and Basic Mouse Biology*

Justin Korfage, University of Michigan

**4:20-4:40 p.m.**

*Closing the Gap on Habitat Navigation; Elongate Fish Co-opt Propulsion Strategy for Performing Axial-based Locomotion in Terrestrial Environments*

Lynne Rader, Adelphi University

**4:40-5:00 p.m.**

*Comparison of Heavy Metal Concentrations in Terrestrial Plants in Vieques, Puerto Rico*

Danielle Bucior, Ithaca College

#### **DUNN HALL 123/125**

##### **Biology**

**4:00-4:20 p.m.**

*Isolation and Characterization of Central Proteins in *A. subfuscus* Glue*

Cailin Harro, Ithaca College

**4:20-4:40 p.m.**

*Isolation, Identification, and Characterization of Local Wild Yeasts for Use In Fermentation*

Lauren DeLong, Salisbury University

## Student Oral Session 9 - Fri 4:00pm-5:00pm

**4:40-5:00 p.m.**

*Lactobacillus Probiotics Effects on Maternally Separated Rat Pups*  
Lacie Werner, Saint Vincent College

### **DUNN HALL 124**

#### **Cell & Molecular Biology**

**4:00-4:20 p.m.**

*MDSC Proliferation in the 4T1 Breast Cancer Tumor Model*  
Jessye Hale, University of Wisconsin - Milwaukee

**4:20-4:40 p.m.**

*Novel Fusion Gene Expression Stratifies Prostate Cancer Patients by Disease State*  
John Quinlan, Drexel University

**4:40-5:00 p.m.**

*Pseudomonas Fluorescens Pellicle Dynamics as an Expression of Public Goods*  
Chloe Fouilloux, University of Minnesota, Twin Cities

### **DUNN HALL 129**

#### **Chemistry**

**4:00-4:20 p.m.**

*Dative Bonds: A Method of Manufacturing Molecular Machines*  
William Archer, Western Carolina University

**4:20-4:40 p.m.**

*Derivatization of Secondary Alcohols for the Purpose of Molecular Characterization*  
Odilia Mentari, St. Catherine University

### **DUNN HALL 233**

#### **Environmental Studies & Sciences**

**4:00-4:20 p.m.**

*Geographic Elephant Conservation: Understanding Land Use Patterns Beneficial to Sub-Saharan African Elephants*  
Sean Hubbard, Virginia Commonwealth University

**4:20-4:40 p.m.**

*Multi-year Comparative Analysis of Maple Species for Syrup Production*  
Jacob Peters, The University of Virginia's College at Wise

### **DUNN HALL 249 / 251**

#### **Mathematics**

**4:00-4:20 p.m.**

*Development of Excel Tools for Lagrange and Barycentric Interpolation of Data*  
Kathryn Irish, University of Leeds

**4:40-5:00 p.m.**

*Explorations of Finger Games*  
Daniel Tjie, Ithaca College

### **DUNN HALL 351**

#### **Communications**

**4:40-5:00 p.m.**

*Consciousness Is a Conversation: Towards an Eco-Dialogical Theory of Communication*  
Weston Wood, University of Utah

#### **Health Sciences**

**4:00-4:20 p.m.**

*The Speech Pathologist's Role in the Treatment and Family Management of Selective Mutism*  
Andrea Archer, Abilene Christian University

**4:20-4:40 p.m.**

*Trends For Success*  
Brock Sigler, University of Kentucky

### **ENGINEERING SCIENCE BUILDING 218**

#### **Chemical Engineering**

**4:20-4:40 p.m.**

*Rheological and Atomic Force Microscopy Investigation of Carotenoid Pigmented Antarctic Heterotrophic Bacteria*  
Hanna Showers, Montana State University Bozeman

### **ENGINEERING SCIENCE BUILDING 220**

#### **Engineering/Engineering Technology**

**4:00-4:20 p.m.**

*Breaking the Friction: Active Flow Control Tackling the Challenge in Aircraft Fuel Consumption and A Brief Outlook to the Future of Aerospace Applications*  
Carlos Caballero, Lamar University

## Student Oral Session 9 - Fri 4:00pm-5:00pm

### **4:20-4:40 p.m.**

*CubeSat Axes Rotation Simulator*

Patricia Ramirez, Metropolitan State University of Denver

### **4:40-5:00 p.m.**

*Design and Fabrication of the Sea-SIC Unmanned Surface Vehicle for the Purpose of Ocean Color Data Collection*

AJ Jordan Abalos, Kapi`olani Community College

## **ENGINEERING SCIENCE BUILDING 222**

### **Mechanical Engineering**

#### **4:00-4:20 p.m.**

*Large-Scale Fabrication of Graphene-Based Membrane Modules for Water Desalination*

Isaac Angeron, Lamar University

#### **4:20-4:40 p.m.**

*Material Characterization of 3D Printed Samples for Varying Layup Orientation*

Konrad Hubbard, Eastern Washington University

#### **4:40-5:00 p.m.**

*Open-air Ultrasonic Acoustic Energy Transfer Using Piezoelectric Transducers for Wirelessly Charging Low-power Sensors*

Ahmed Elnahhas, Virginia Polytechnic Institute & State University

## **FOGELMAN CLASSROOM BUILDING 119**

### **Business/Finance/Accounting**

#### **4:00-4:20 p.m.**

*To Invest or Not To Invest?*

Marina Jones, Our Lady of the Lake University

## **FOGELMAN CLASSROOM BUILDING 125**

### **Economics**

#### **4:00-4:20 p.m.**

*The Effects of the Environment on Decision-Making: A Study of Cognitive Ease and Cognitive Strain and Their Effects on Fast and Slow Thinking*

Lucas Cuadros, Wingate University

### **4:20-4:40 p.m.**

*Agricultural Extension Services and Productivity of Farmers in Ethiopia*

Katim Woldemariam, Lafayette College

#### **4:40-5:00 p.m.**

*Algae Blooms: Hedonic Pricing Analysis of Select Wisconsin Lakes*

Helena Pedrotti, Reed College

## **FOGELMAN CLASSROOM BUILDING 127**

### **Economics**

#### **4:20-4:40 p.m.**

*Market Inefficiencies in the Pricing of Loan Participation Closed-End Funds*

Daniel Crowley, Lafayette College

## **FOGELMAN CLASSROOM BUILDING 131**

### **Health Sciences**

#### **4:00-4:20 p.m.**

*Web MD or Human MD?*

Ashwini Chawla, Macaulay Honors College at CUNY

## **FOGELMAN CLASSROOM BUILDING 259**

### **Physics**

#### **4:00-4:20 p.m.**

*Computational Investigation of the Atomics-scale Mechanism of Electrical Dipole Switching in Phosphosilicate Glass*

ZHI SONG, University of Memphis

#### **4:20-4:40 p.m.**

*Conceptual Improvement in Understanding Physics Topics by Integrating Computer Simulation Package PhET Interactive Simulations as Prelab Followed by a Designed Lab as Post Lab*

Christopher Patzhanovsky, University of Memphis

#### **4:40-5:00 p.m.**

*Correlation Between Phantom and Surgical Specimen Studies Indicate Sensitivity of High-Frequency Ultrasound to Breast Cancer Lobular Carcinomas*

Nicole Cowan, Utah Valley University

## Student Oral Session 9 - Fri 4:00pm-5:00pm

### **FOGELMAN CLASSROOM BUILDING 261**

#### **Physics**

**4:00-4:20 p.m.**

*The Search for Harmonic Drums*  
Thomas Eichlersmith, Hamline University

**4:20-4:40 p.m.**

*TiO<sub>2</sub> Coated Nanocellulose Aerogel Catalyst*  
Byron Fritch, University of Northern Iowa

### **FOGELMAN CLASSROOM BUILDING 262**

#### **Public Health**

**4:00-4:20 p.m.**

*Sages-Femmes of Dakar, Senegal, Through Firsthand Experience: An Unparalleled Profession in the United States*  
Maria Suarez, State University of New York-Geneseo

**4:40-5:00 p.m.**

*Diminished Health Literacy in Geriatric Patients: Polypharmacy Contributes to Preventable Deaths of Geriatric Patients*  
Allison Blumenfeld, Virginia Commonwealth University

### **FOGELMAN CLASSROOM BUILDING 264**

#### **International Studies**

**4:00-4:20 p.m.**

*Reflecting the Real World? A Glance at How Media Portrays the Poor*  
Prasadi Dangolla, Albright College

**4:20-4:40 p.m.**

*Reframing Climate-Driven Population Movement: Migration as Adaptation in Bangladesh and Vietnam*  
Carolyn Turkaly, American University

**4:40-5:00 p.m.**

*Refugee Evaluations of Existing Social Resettlement Programs: Finding Solutions That Work*  
Catherine Crowe, Mercer University

### **JONES HALL 200**

#### **Education**

**4:00-4:20 p.m.**

*Exploring Alternative High Schools: What Makes the Difference?*  
Barbara Bollhoffer, Hope College

**4:20-4:40 p.m.**

*STUDENT PERCEPTIONS OF GRIT AND BEST PRACTICES FOR MEDIATED FAILURE*  
Megan Palmer, Southern New Hampshire University

### **JONES HALL 212**

#### **Literature**

**4:00-4:20 p.m.**

*Gothic Victorian Literature and the Trump Dynasty: How the Exploitation of Daughters Continues into the 21st Century*  
Emma Foster, Seattle University

**4:20-4:40 p.m.**

*Human Psychology and Spanish Prose: How They Have Evolved*  
Mary Magan, Hope College

**4:40-5:00 p.m.**

*Innocuous Irreverence?: A Socio-Cultural Analysis of Literary Representations of the Hipster and Jazz Culture*  
Connor Rystedt, Hamline University, St. Paul

### **JONES HALL 214**

#### **Literature**

**4:20-4:40 p.m.**

*The Landscape of Late Victorian Literature: Sensational Journalism, Insanity Trials, and the Ripper Crimes*  
Elissa Branum, John Brown University

**4:40-5:00 p.m.**

*The Philosophy of the Leap: Egoism in Conrad's Lord Jim*  
Ryan Baker, University of Wisconsin - River Falls

## Student Oral Session 9 - Fri 4:00pm-5:00pm

### **JONES HALL 218**

#### **English**

**4:00-4:20 p.m.**

*Adam Stands Alone: The Effect of the Oedipus Conflict in Cormier's I Am the Cheese*

Courtney Werner, Eastern Connecticut State University

**4:20-4:40 p.m.**

*Alienation and Abominations: Terror and Horror in Classic Gothic Novels and My Own Writing*

Shae Ramsey, Bridgewater State University

**4:40-5:00 p.m.**

*Altering the Human: Why the Debate Over Antidepressants Produces the Most Controversy*

Emily Daley, University of Wisconsin - Milwaukee

### **JONES HALL 226**

#### **English**

**4:00-4:20 p.m.**

*Ginger*

Gloria Bartel, University of Wisconsin - River Falls

**4:20-4:40 p.m.**

*God's Array of Emotions in Paradise Lost*

Jasmine Duncan, Western Carolina University

**4:40-5:00 p.m.**

*Harry Potter and the Curse of Queerbaiting*

Jordan Freeman, Western Carolina University

### **JONES HALL 237**

#### **Journalism**

**4:40-5:00 p.m.**

*Who's Behind the Desk? An Analysis of Newsroom Diversity in Small, Medium, and Large Television Markets Within the Midwest*

Brian Hartman, Eastern Illinois University

#### **Philosophy & Ethics**

**4:20-4:40 p.m.**

*Wittgenstein's Idea of the "Use" Contrasted to Malinoski's Concept of the "Context of Situation"*

Maria Constanza Garrido Sierralta, University of West Georgia

### **JONES HALL 239**

#### **English**

**4:40-5:00 p.m.**

*Virtue Over Convention: How Language Encourages Change in Jane Austen's Persuasion*

Mary Weir, Carthage College

### **JONES HALL 243**

#### **Philosophy & Ethics**

**4:00-4:20 p.m.**

*Natural Wickedness: The Human Flourishing Of Serial Killers*

Chelsea Mason Basiliere, Bridgewater State University

**4:20-4:40 p.m.**

*Neutrality in the Face of Suffering: A Comparative Evaluation of Two International Medical Humanitarian Organizations and Their Distinct Interpretations of the Principle of Neutrality*

Sharon Hsu, Siena College

**4:40-5:00 p.m.**

*Neutrality: Freewill and Determinism*

Janelle Gormley, University of West Florida

### **JONES HALL 249**

#### **English**

**4:00-4:20 p.m.**

*Representative Interrogation: Orhan Pamuk's Rebuttal of the East/West Binary in "My Name Is Red"*

Thomas Simonson, University of North Carolina, Charlotte

**4:40-5:00 p.m.**

*Rhetorical Analysis on Gorgias' Encomium of Helen*

Miranda Lorenc, Utah State University

### **MANNING HALL 202**

#### **Sport Management**

**4:20-4:40 p.m.**

*A Pursuit of Happiness In NCAA Division III Athletics*

Gabriel Branco, North Dakota State University (Nlt)

## Student Oral Session 9 - Fri 4:00pm-5:00pm

### **4:40-5:00 p.m.**

*Culture of Women's Athletics at Eastern Connecticut State University in the NCAA vs. in the AIAW*  
Rosamaria Riccobono, Eastern Connecticut State University

### **MANNING HALL 204**

#### **History**

##### **4:00-4:20 p.m.**

*Driving Toward the Future: The Effects of World War II on the American Automobile Industry*  
Patrick Heaston, University of Evansville

##### **4:20-4:40 p.m.**

*Ebola the Enemy: How the U.S. Media Militarized the 2014 Ebola Epidemic*  
Sarah Chamness, Valparaiso University

##### **4:40-5:00 p.m.**

*Examining How NAGPRA Influences the Muscogee Nation Interacts with Its Distant Past in Macon, Georgia*  
Micheal Williams, Macon State College

### **MANNING HALL 222**

#### **History**

##### **4:00-4:20 p.m.**

*Salonnieres, Enlightenment Culture, and Challenging Gender Roles: The Case of Julie De Lespinasse*  
Nicole Ackman, Elon University

##### **4:20-4:40 p.m.**

*Scapegoat Hysteria: A Comparison of the Salem Witch Trials and the Red Scare*  
Andreanna Hughes, Bridgewater State University

##### **4:40-5:00 p.m.**

*Schopenhauerian Thought and Eastern Philosophy*  
Lawrence Caruso, Appalachian State University

### **MANNING HALL 318**

#### **Communications**

##### **4:00-4:20 p.m.**

*Representations of Plato's Allegory of the Cave in Film*  
Michael Pugh, Lubbock Christian University

### **MANNING HALL 320**

#### **Women, Gender, and Sexuality Studies**

##### **4:00-4:20 p.m.**

*Quandaries, Quarrels and Quotas: An Examination of Gender Norms in Kosovo*  
Hayley Schultz, Hope College

##### **4:20-4:40 p.m.**

*Relationship Between Attitudes Towards Casual Sex, Gender Roles and Condom Advocacy*  
Abby Caselli, Eastern Connecticut State University

##### **4:40-5:00 p.m.**

*Stigma, Social Roles, and Susceptibility to HIV: Three S's That Promote Hegemonic Masculinity in South Africa*  
Jasmine Render, Mercer University

### **MANNING HALL 332**

#### **History**

##### **4:20-4:40 p.m.**

*The Alexiad: How the Presentation of Alexios Exposed the Ideals of the Byzantine Empire*  
Tyler Brown, John Brown University

#### **Religious Studies**

##### **4:00-4:20 p.m.**

*Why We Should All Be Reformed Charismatic and Pentecostal Calvinists*  
Oluwaseyi Matthew Ojo, Dordt College

### **MANNING HALL 340**

#### **Sociology**

##### **4:00-4:20 p.m.**

*"Let's Do Something, Saathi": The Role of Social Media in Shaping Participatory Capacities of Youth in Nepal*  
Leena Dahal, Elon University

##### **4:20-4:40 p.m.**

*A+ Asian Americans: The Myth of the Model Minority*  
Joyce Ling, Macaulay Honors College at CUNY

## Student Oral Session 9 - Fri 4:00pm-5:00pm

### **MANNING HALL 413**

#### **Computer Science**

**4:00-4:20 p.m.**

*Scientific Visualization of Climate Model for Assessment and Planning*

Robert Strickland, Coastal Carolina University

**4:20-4:40 p.m.**

*Semantic-Based Multimedia Recommendations in Ambient Intelligent (AmI)*

Matthew Floyd, Indiana University Kokomo

**4:40-5:00 p.m.**

*Software Engineering Practices Applied to SQL*

*Database Lifecycle Management*

Paul Miller, Utah Valley University

### **MANNING HALL 417**

#### **Sociology**

**4:00-4:20 p.m.**

*Racial Differences in Trait Self Esteem Among Adolescent Females*

Timothy Mayer, University of Michigan

**4:20-4:40 p.m.**

*Racial-Ethnic Online Dating Preferences*

Chris Kim, Ithaca College

### **MANNING HALL 426**

#### **Religious Studies**

**4:20-4:40 p.m.**

*Grief, Adolescents, and the Church: How Christian Belief Can Help or Hinder the Process of Grief for Adolescents*

Clare Warrington, John Brown University

### **MEEMAN JOURNALISM 106**

#### **Political Science**

**4:00-4:20 p.m.**

*The Effect of Rwandan Aggression on Burundian Economic Success and Political Advancement Within Intergovernmental Bodies*

Mairin Cahill, City University of New York- Lehman College

**4:20-4:40 p.m.**

*The Effects of Criminalization on Homeless Quality of Life: A Case Study of Pinellas County, Los Angeles County, and New York City*

Amy Wheeler, Texas Christian University

### **MEEMAN JOURNALISM 112**

#### **Political Science**

**4:00-4:20 p.m.**

*From Dehumanization to Hope: Confronting the American Penal System*

Susan Thomas, Brooklyn College

**4:20-4:40 p.m.**

*From Online to Offline: Protests on Democratic and Republican National Convention*

Chen Liang, University of Michigan

**4:40-5:00 p.m.**

*From the Soviet Bloc to the Ballot Box: Democratization in Poland, Latvia, and Ukraine*

Tyler Swafford, Eastern Kentucky University

### **MEEMAN JOURNALISM 204**

#### **International Studies**

**4:20-4:40 p.m.**

*Improving the System: Examining the Role of Physical Therapy in Spain's Healthcare System After Eight Years of Financial Crisis*

Elizabeth Waggoner, Illinois College

**4:40-5:00 p.m.**

*A Competition of Carrots: Increased Interdependence as a Result of Modern Hegemonic Behavior Towards Smaller States During Convergence*

Hailee Meacham, American University

#### **Law & Legal Studies**

**4:00-4:20 p.m.**

*Sexual Assault Within the Workplace: Determining Liability Among Employers*

Madeleine Anthony, Ithaca College

## Student Oral Session 9 - Fri 4:00pm-5:00pm

### **PSYCHOLOGY AUDITORIUM A0200**

#### **Experimental Psychology**

**4:00-4:20 p.m.**

*Predicting Menstrual Product Brand Commitment by Examining Perceived Value and Satisfaction as a Secondary Measure of Loyalty*

Nicole Piatti, William Peace University

**4:20-4:40 p.m.**

*Puzzle-Solving Performance*

Alexandra Van Meir, William Peace University

**4:40-5:00 p.m.**

*Re-examining the Cookie Cutter College Kid: A Comparison of Student Populations*

Sarah Kurzu, Webster University

### **PSYCHOLOGY BUILDING 204**

#### **Clinical Psychology**

**4:00-4:20 p.m.**

*Meditating Your Way to a Healthy Body Image: A Comparison of Loving Kindness Meditation and Mindful Breathing*

Stephanie Michel, Albright College

**4:20-4:40 p.m.**

*Misdiagnosis of Mental Illness: Flaws of the DSM-V and Their Effects on Mental Health in the Community*

Bijal Rajput, Virginia Commonwealth University

**4:40-5:00 p.m.**

*Predicting Social Factors of Prescription Stimulant Abuse in College Students*

Trevor Levingston, Eastern Illinois University

### **PSYCHOLOGY BUILDING 206**

#### **Clinical Psychology**

**4:40-5:00 p.m.**

*Using the Wechsler Adult Intelligence Scale—Fourth Edition as an Additive Method of Diagnosis for Patients Suffering from Depression, ADHD, and Bipolar II Disorder*

Nidhi Kumar, Virginia Commonwealth University

### **Cognitive Neuroscience**

**4:00-4:20 p.m.**

*Psychology of Patients with Complex Regional Pain Syndrome*

Julianna Guilfoy, Virginia Commonwealth University

**4:20-4:40 p.m.**

*Undermining Education Readiness: Assessing the Effects of Cognitive Impairment in Refugee Children with Post-Traumatic Stress Disorder*

Amelia Scarbrough, Luther College

### **PSYCHOLOGY BUILDING 230**

#### **Geography & Earth Sciences**

**4:00-4:20 p.m.**

*Influence of Climate Variability on Samburu County, Kenya Pastoralism*

Hollie Skibstead, Colorado State - Colorado State University- Cooperative Extension- Jefferson Co

**4:20-4:40 p.m.**

*Investigating Temporal and Spatial Variations of Trace Metal Loading to Utah Lake, Ut (usa)*

Henintsoa Rakotoarisaona, Utah Valley University

**4:40-5:00 p.m.**

*Mapping the Nonconnah Creek*

Lindsay Dolan, University of Memphis

## Student Oral Session 10 - Sat 8:00am-9:00am

### **Student Oral Session 10 - Sat 8:00am-9:00am**

#### **ART AND COMMUNICATION 247**

##### **Music**

###### **8:20-8:40 a.m.**

*From Modal to Tonal: The Influence of Monteverdi in Musical Development*  
Haley Perritt, Cedarville University

###### **8:40-9:00 a.m.**

*How Beyoncé Became the New Wagner*  
Noelle Tutunjian, University of the Pacific

#### **ART AND COMMUNICATION 257**

##### **Art History**

###### **8:00-8:20 a.m.**

*Quietly Feminist: The Changing, but Ever-present, Role of Capable Women in Alphonse Mucha's Work*  
Trisha Brockmeyer, Xavier University

###### **8:20-8:40 a.m.**

*Remembering the Women of the Bauhaus: Gender Inequality in a Self Proclaimed Equal School*  
Madison Murphy, University of West Florida

###### **8:40-9:00 a.m.**

*Shepard Fairey Has a Posse: An Analysis and Application of Fairey's Work and Message*  
Matthew McCroskey, Capital University

#### **ART AND COMMUNICATION 310**

##### **Music**

###### **8:00-8:20 a.m.**

*Changes for Change: How Jazz Composer Charles Mingus Fought for Equality*  
Caleb McMahon, Appalachian State University

###### **8:20-8:40 a.m.**

*Pérotin to Pärt: Developing the Composing Mind*  
Ryan Huntington, The University of Virginia's College at Wise

###### **8:40-9:00 a.m.**

*Technology and the Concert Band: Why Is This Genre Neglected by Music Educators in the Performance Setting?*  
Callie Barbeau, University of Wisconsin - Whitewater

#### **ART AND COMMUNICATION 314**

##### **Music**

###### **8:20-8:40 a.m.**

*Music in the American Civil War: Developing American Culture*  
Abigail Hall, Viterbo University

###### **8:40-9:00 a.m.**

*Music of Memory in a City of Refugees: Intersections of Syrian and Greek Music in Contemporary Thessaloniki*  
Erin Cook, University of North Carolina - Asheville

#### **COMMUNICATION AND FINE ARTS 124**

##### **Music**

###### **8:00-8:20 a.m.**

*Searching for the Stage: Authenticity in Modern Fado Tourism*  
Amanda Paruta, State University of New York- Buffalo State

###### **8:20-8:40 a.m.**

*Selecting Instruments Based on Physical Facial Characteristics: Illinois Band Directors' Beliefs*  
Rebecca Warfel, Eastern Illinois University

###### **8:40-9:00 a.m.**

*Shakespeare's Philosophy of Music*  
Emily Sulka, Cedarville University

#### **DUNN HALL 103 / 105**

##### **Anthropology**

###### **8:00-8:20 a.m.**

*La Lleyenda De Yobi, El Zorro Con Cinco Colas/ ????*  
??? Emotion in Translation: A Humanistic Study of Translation Korean to Spanish  
Lidia Velasco, Eastern Washington University

## Student Oral Session 10 - Sat 8:00am-9:00am

**8:20-8:40 a.m.**

*Lived Realities of Healthcare: A WenZhouinese Experience*  
Da Qi Xia, City University of New York- Brooklyn College

**8:40-9:00 a.m.**

*Organ Transplantation in the Modern Age: When Nuance and Uncertainty Break Binary Expectations*  
Anastasia Vechera, University of California, San Diego

**DUNN HALL 107****Communications****8:00-8:20 a.m.**

*The Effects of Personality Types (Introversion-Extraversion) on Promoting Feminism on Social Media Platforms*  
Jamie Shum, Ithaca College

**8:20-8:40 a.m.**

*The Evolution of Female Roles in Film: 2005-2014*  
Natalie Davis, Sul Ross State University

**8:40-9:00 a.m.**

*The Girls and The Others*  
Jalen Thompson, University of Montevallo

**DUNN HALL 109****Biochemistry****8:20-8:40 a.m.**

*Chemical Cross-linking of Doxorubicin to Synthetic Oligonucleotides by Formaldehyde*  
Juan Medina, Florida International University

**8:40-9:00 a.m.**

*Conditional Deletion of Adora2B from Smooth Muscle Cells Attenuates Pulmonary Hypertension But Not Lung Fibrosis*  
Ankit Hanmandlu, University of Texas at Austin

**DUNN HALL 119 / 121****Biology****8:00-8:20 a.m.**

*Comparison of Sugars and Amino Acids in Nectar from Scaevola taccada and Scaevola plumieri.*  
Colette Piasecki-Masters, Ithaca College

**8:20-8:40 a.m.**

*Computational Model of the Afferent Connections to the Mesocorticolimbic Pathway*  
Jordan Thomas, Our Lady of the Lake University

**8:40-9:00 a.m.**

*Controlling Oct4 Expression Levels Using Invitrogen's GeneSwitch™ System*  
Autumn Leggins, Winthrop University

**DUNN HALL 123/125****Biology****8:00-8:20 a.m.**

*Median Fin Patterning in Bony Fish: Caspase-3 Role in Fin Fold Reabsorption*  
Kaitlyn Hammock, Eastern Illinois University

**8:20-8:40 a.m.**

*Morphological Effects of Bisphenol-A on Danio Rerio*  
Rahanna Khan, Adelphi University

**8:40-9:00 a.m.**

*Multiple Parasites Elicit Different Immune Response in Female Mountain Spiny Lizards, Sceloporus Jarrovii*  
Keith Johnson, Indiana State University

**DUNN HALL 124****History****8:20-8:40 a.m.**

*The Use of Photography in the Suppression of the African Slave Trade, 1842-1910*  
Ellie Cherryhomes, University of Missouri - Columbia

**Political Science****8:40-9:00 a.m.**

*Advocacy Group Use of Social Media to Inform, Mobilize, and Change Policy*  
Katherine Koyfman, Dominican University of California

**DUNN HALL 249 / 251****Mathematics****8:00-8:20 a.m.**

*Fractal Assembly in the Hierarchical Self-assembly Model Versus Abstract Tile Assembly Model*  
Joseph Opseth, University of Wisconsin - River Falls

## **Student Oral Session 10 - Sat 8:00am-9:00am**

### **8:20-8:40 a.m.**

*Homology of Permutation Complexes*  
Catherine Wallick, St. Catherine University

### **8:40-9:00 a.m.**

*Mining Item Features from Reviews and Ratings for Item Recommendation*  
Chenyu Zhai, Wittenberg University

### **DUNN HALL 351**

#### **History**

### **8:00-8:20 a.m.**

*An Examination of the Factors That Contribute to the Formation of Exclaves*  
Justin Franco, Florida International University

### **8:20-8:40 a.m.**

*Guarding the Ivory Tower: An Examination of Resistance to Integration at Hendrix College*  
Joshua Knight, Hendrix College

### **ENGINEERING SCIENCE BUILDING 220**

#### **Industrial/Systems Engineering**

### **8:00-8:20 a.m.**

*An Agricultural Harvest Knowledge Survey to Distinguish Types of Expertise*  
Chase Grimm, Iowa State University

### **FOGELMAN CLASSROOM BUILDING 264**

#### **International Studies**

### **8:00-8:20 a.m.**

*Racism in Japan and Its Ramifications on Japanese Society*  
Zac Jones, University of Kentucky

### **8:20-8:40 a.m.**

*Social Entrepreneurship in a Conflict Zone*  
Sebastian Albrecht, Fordham University

### **8:40-9:00 a.m.**

*Stability in the Midst of Chaos: The Determinants of Jordan's Refugee Policies, 2012-2016.*  
Benjamin Lutz, Elon University

### **FOGELMAN CLASSROOM BUILDING 265**

#### **Psychology**

### **8:00-8:20 a.m.**

*Measured Discrepancies Between Teacher Perceptions and Student Actions in Academic Cheating*  
Sharon Thomas, White Station High School, University of Memphis

### **8:20-8:40 a.m.**

*Cognitive Impacts of Inter-study Session Media Multitasking on Study Productivity*  
Fengbo Zhao, White Station High School, University of Memphis

#### **Public Health**

### **8:40-9:00 a.m.**

*Teens Nutritional Awareness*  
Phoebe Anderson, White Station High School, University of Memphis

### **FOGELMAN CLASSROOM BUILDING 266**

#### **Public Health**

### **8:00-8:20 a.m.**

*Does Cigarette Smoking Reduce Motivation to Exercise?*  
Maggie Dong, White Station High School, University of Memphis

#### **Communications**

### **8:20-8:40 a.m.**

*New Media & Information Retention in High School Students*  
Srikavya Jawabnavis, White Station High School, University of Memphis

### **8:40-9:00 a.m.**

*The Relationship between Language Preference and Family Cohesion in East Asian Immigrant Families within the United States*  
Ziya Wu, White Station High School, University of Memphis

### **FOGELMAN CLASSROOM BUILDING 267**

#### **Social Work**

### **8:00-8:20 a.m.**

*Solving Veteran Homelessness through Education*  
Katlyn Hurst, White Station High School, University of Memphis

## Student Oral Session 10 - Sat 8:00am-9:00am

### **FOGELMAN CLASSROOM BUILDING 268**

#### **Education**

**8:00-8:20 a.m.**

*Preparing Underrepresented Youth in STEM*  
Anna Sun, White Station High School, University of Memphis

#### **English**

**8:20-8:40 a.m.**

*English as a Second Language: Teachers' Perceptions of Their Ability to Teach Refugee Students*  
Allie Haynes, White Station High School, University of Memphis

#### **Environmental Engineering**

**8:40-9:00 a.m.**

*H20nduras Water Project: Improving Access to Clean Water with Organic Material*  
Robert Miskell, White Station High School, University of Memphis

### **JONES HALL 200**

#### **Education**

**8:20-8:40 a.m.**

*High School, College Assistance Program Student to Advisor Ratio*  
Yessenia Lopez Reyes, Florida International University

**8:40-9:00 a.m.**

*How Can General Education Be Innovative*  
Liv Winnicki, Appalachian State University

### **JONES HALL 212**

#### **Literature**

**8:00-8:20 a.m.**

*Intersecting Globalization and Feminism in This Bridge Called My Back*  
Sarah Stubbs, The University of Findlay

**8:20-8:40 a.m.**

*Isabella D'Este: Defying Courtly Women's Stereotypes in Renaissance Mantua*  
Shelby Mickler, Jacksonville University

**8:40-9:00 a.m.**

*Lady Bertram as an Orientalist Figure in Mansfield Park*  
Madelaine McBride, The University of Findlay

### **JONES HALL 214**

#### **Literature**

**8:00-8:20 a.m.**

*The Poetry of Body and Soul: Personhood in John Donne*  
Madison Forbes, Bridgewater State University

**8:20-8:40 a.m.**

*The Polyphonic Poetics of Watchmen by Alan Moore and Dave Gibbons and Its Ontological Implications*  
Roy Auh, Duke University

**8:40-9:00 a.m.**

*The Significance of "Poo-tee-weet?" in Slaughterhouse-Five*  
Thanh Truong, University of Central Oklahoma

### **JONES HALL 218**

#### **English**

**8:00-8:20 a.m.**

*An Analysis of the Writing Center Grand Narrative: How Diverse Institutions Have Expanded*  
Sophia Hulen, Wittenberg University

**8:20-8:40 a.m.**

*Anatomy of a Host: Host-identity and Hostesses in the Odyssey and Irish Saga*  
Julia Pare, Macaulay Honors College at Brooklyn

**8:40-9:00 a.m.**

*Attention Spans: A More Thorough Look*  
Alec Masella, Virginia Polytechnic Institute & State University

### **JONES HALL 226**

#### **English**

**8:00-8:20 a.m.**

*How College Athletics Impact Career Development*  
Ashlee Carper, Southern New Hampshire University

## Student Oral Session 10 - Sat 8:00am-9:00am

### **8:20-8:40 a.m.**

*How Language Affects Gender in Children*  
Chelsea Larson, University of Memphis

### **8:40-9:00 a.m.**

*Imani*  
Antonio Gomez, Truman State University

## **JONES HALL 237**

### **World languages**

#### **8:00-8:20 a.m.**

*"Social Assimilation of Hispanics in the United States"*  
Laura Gomez, Florida Atlantic University

#### **8:20-8:40 a.m.**

*The Extraordinary Realities in Aura by Carlos Fuentes*  
Nicole Zic, Kean University

#### **8:40-9:00 a.m.**

*Unterdrückung in Der DDR: An Analysis of Oppression in Former East Germany*  
Joanna Bodigor, North Central College

## **JONES HALL 239**

### **English**

#### **8:00-8:20 a.m.**

*Visualizing the Unspeakable: Graphic Novels and Illustrating the Holocaust*  
Madilyn Pflueger, Trinity University

#### **8:20-8:40 a.m.**

*Westminster Detective Library*  
Mable Buchanan, McDaniel College

#### **8:40-9:00 a.m.**

*When Fools Push Back: Identifying Subversion in "King Lear" and "Twelfth Night"*  
Victoria Bruick, Valparaiso University

## **JONES HALL 243**

### **Philosophy & Ethics**

#### **8:00-8:20 a.m.**

*Friedrick Nietzsche's Philosophy: Placing Morality Back Into the Individual*  
Corey Horn, Eastern Washington University

### **8:20-8:40 a.m.**

*Nietzsche and Anarchy*  
Thomas Voigtlaender, Eastern Washington University

### **8:40-9:00 a.m.**

*Philosophical Roots of Immigration Rights*  
Andrey Koltsov, Brooklyn College

## **JONES HALL 249**

### **English**

#### **8:00-8:20 a.m.**

*Rhetorical Theory and South Park*  
Tyler Grow, Utah State University

#### **8:20-8:40 a.m.**

*Scars of Slavery: Generational Trauma in Pauline Hopkins's Of One Blood*  
Emma Deihl, Luther College

#### **8:40-9:00 a.m.**

*Service the Superior: An Examination of Women's Relationship to Justice in Ariel Dorfman's Death and the Maiden*  
Santana Batts, William Peace University

## **MANNING HALL 202**

### **Sport Management**

#### **8:00-8:20 a.m.**

*Education Paradox: The Opportunity Cost of U.S. Professional Soccer*  
Nathaniel Fournier, Southern New Hampshire University

#### **8:20-8:40 a.m.**

*Fans' Awareness and Effectiveness of Commercial Promotions in NCAA D-II Football Inaugural Season Games*  
Mark Chasteen, University of West Florida

## **MANNING HALL 204**

### **History**

#### **8:00-8:20 a.m.**

*Exploiting a Pirate Legend: The Twentieth Century Manipulation of Granuaile O'Malley*  
Naomi Hanson, Ithaca College

## Student Oral Session 10 - Sat 8:00am-9:00am

### **8:40-9:00 a.m.**

*Faith, Fear, and Feud: Egypt's Ailing Religious Freedoms*  
Teresa Tawadros, Brooklyn College

### **MANNING HALL 222**

#### **History**

##### **8:00-8:20 a.m.**

*Seven Pillars of Destruction: Lawrence's Contribution to Counterinsurgency*  
Matthew Gibson, Xavier University

##### **8:20-8:40 a.m.**

*Silenced Voices: Insanity in Nineteenth-Century Pennsylvania*  
Rachel Baer, Susquehanna University

### **MANNING HALL 318**

#### **Communications**

##### **8:20-8:40 a.m.**

*Social Media Trust Study*  
Susan McLean, Eastern Connecticut State University

##### **8:40-9:00 a.m.**

*Speaking in Tongues About Weapons of Mass Destruction: Communication Norms of a High School Debate Team*  
Anthony Purinton, University of Central Oklahoma

### **MANNING HALL 320**

#### **Women, Gender, and Sexuality Studies**

##### **8:20-8:40 a.m.**

*Suffering Sappho! Female Friendships in Superhero Comics, 1940s to 1960s and Today*  
Hannah Costelle, Eastern Kentucky University

##### **8:40-9:00 a.m.**

*The Ethical Dimensions of Western Counter-terrorism Approaches That Feature Muslim Women*  
Nadine Iskandar, Loyola Marymount University

### **MANNING HALL 332**

#### **History**

##### **8:00-8:20 a.m.**

*The Development of the Rhetoric of Labor and Civil Rights in the United States and South Africa*  
Jacqueline Atchison, Mercer University

### **8:20-8:40 a.m.**

*The Enduring Legacy of Those Ladies in Red: Following the Changing Nature of "The Red Detachment of Women"*  
R. Christian Phillips, Capital University

##### **8:40-9:00 a.m.**

*The Game of United States Diplomacy Within the Ottoman Empire: How United States' Interests in the Ottoman Empire Delayed Its Entrance into the Great War*  
Robert Nowland, University of North Carolina - Asheville

### **MANNING HALL 340**

#### **International Studies**

##### **8:20-8:40 a.m.**

*The Syrian War of Attrition: How the World Superpowers Are Fighting Each Other*  
Jacob Peoples, Eastern Kentucky University

#### **Sociology**

##### **8:40-9:00 a.m.**

*Characteristics of Psychedelic Users in the United States*  
Logan Neitzke-Spruill, Minnesota State University, Mankato

### **MANNING HALL 413**

#### **Computer Science**

##### **8:00-8:20 a.m.**

*TermMerge: A Software Platform for Crowd-Sourced Word Semantics*  
Alastair Paragis, Florida International University

##### **8:20-8:40 a.m.**

*The Adoption Rate of Lambda Expressions in Java Open Source Projects*  
Christopher Saldivar, Arkansas State University

##### **8:40-9:00 a.m.**

*Topoisomerase: The Architect of Genomic Infrastructure*  
Kyle Titus-Glover, Virginia Polytechnic Institute & State University

## Student Oral Session 10 - Sat 8:00am-9:00am

### **MANNING HALL 417**

#### **Sociology**

**8:00-8:20 a.m.**

*Reimagining Inclusivity: Transgender Experiences in Higher Education*

Sarah Reilly, Central Connecticut State University

**8:20-8:40 a.m.**

*Self Identity: The Process of Internalizing Societal Projections*

Martha Meyer, University of Wisconsin - Stout

**8:40-9:00 a.m.**

*Shared Livelihoods in East Africa: The Race for Capital & Refugee Camp-host Community Relations*

Asha Athman, George Mason University

### **MANNING HALL 426**

#### **Religious Studies**

**8:20-8:40 a.m.**

*Interpretation of the Symbolic Veil*

Kila Dumas, Concordia College - Moorhead

### **MEEMAN JOURNALISM 106**

#### **Political Science**

**8:00-8:20 a.m.**

*The Importance of Ethnic Studies in Today's Society*

Cindy Morales, Augustana College

**8:20-8:40 a.m.**

*The Oppression of Muslim Rights and Culture: Categorical Inequality and De-Democratization in France*

Jennifer Sacco, Eastern Washington University

**8:40-9:00 a.m.**

*The Political Role of Humanitarian Aid in Conflict Zones*

Samuel Northrup, University of Kentucky

### **MEEMAN JOURNALISM 112**

#### **Political Science**

**8:00-8:20 a.m.**

*Gender Quotas and Substantive Representation:*

*Lessons from Cape Verde*

Cody Lathe, Western Carolina University

**8:20-8:40 a.m.**

*Global Internet Leaders Identify Issues Crucial to Achieving United Nations 2030 Sustainable Development Goals*

Anna Zwingelberg, Elon University

**8:40-9:00 a.m.**

*Imagining Stewardship: Roots of a Poetic Eco-Politics*

Ryan Hellenbrand, Appalachian State University

### **MEEMAN JOURNALISM 204**

#### **International Studies**

**8:20-8:40 a.m.**

*A New Cohesion: Nigerian Regional Power on the African Continent*

Darby Joyce, Salisbury University

**8:40-9:00 a.m.**

*A Schools Based Approach to Solving the Mental Healthcare Shortage Among Child Refugees*

Victoria Gupton, Virginia Commonwealth University

### **PSYCHOLOGY AUDITORIUM A0200**

#### **Experimental Psychology**

**8:00-8:20 a.m.**

*Red Bulls and Roommates: Do Caffeine Consumption and Living Arrangements Impact Sleepiness in College Students?*

Lewis Moore, The University of Virginia's College at Wise

**8:40-9:00 a.m.**

*Revisiting A+(b1) Professor-Student Rapport+(b2)*

*Humor+(b3) Student Engagement=(Y) Student Ratings of Instructors*

Madison Hanks Hanks, Utah Valley University

### **PSYCHOLOGY BUILDING 204**

#### **Experimental Psychology**

**8:20-8:40 a.m.**

*The Role of Context in the Reinstatement of Conditioned Fear*

Taylor McDougal, Appalachian State University

## Student Oral Session 11 - Sat 9:20am-10:20am

**8:40-9:00 a.m.**

*The Roles of Empathy and Race on Contagious Yawning*  
Daroon Jalil, James Madison University

### **PSYCHOLOGY BUILDING 206**

**Experimental Psychology**

**8:00-8:20 a.m.**

*Susceptibility to Priming in Analytical vs. Intuitive Thinkers*  
Sabrina Zitzelberger, California University of Pennsylvania

**8:40-9:00 a.m.**

*The Effect of Choice Mindset on Perceptions of Human Trafficking*  
Alicia Alcaraz, Valparaiso University

### **PSYCHOLOGY BUILDING 230**

**Geography & Earth Sciences**

**8:00-8:20 a.m.**

*Monitoring the Spread of the American Black Bear (*Ursus Americanus*) Around Ithaca, New York*  
Victoria Chamberlin, Ithaca College

**8:20-8:40 a.m.**

*People, Wildlife and Conservation in Samburu County, Kenya*  
Ashley Foster, Colorado State - Colorado State University- Cooperative Extension- Jefferson Co

**8:40-9:00 a.m.**

*Plastic Waste Identification and Potential Solutions: A Case Study of Bocas Town, Panama*  
Hailey Gorman, Minnesota State University, Mankato

## **Student Oral Session 11 - Sat 9:20am-10:20am**

### **ART AND COMMUNICATION 247**

**Music**

**9:40-10:00 a.m.**

*Interaction of Fashion, Dance Movement, and Dance Music in King Louis XIV's Court*  
Miranda Penley, Appalachian State University

**10:00-10:20 a.m.**

*Joachim Raff: The Fall into Obscurity*  
Kyle Geesey, University of Northern Iowa

### **ART AND COMMUNICATION 257**

**Art History**

**9:20-9:40 a.m.**

*Spatial Harmonies: Aesthetic Forms of Classical Thought*  
Nickelaus Engle, Juniata College

**9:40-10:00 a.m.**

*Teresita Fernandez, Installation Art, and the Anti-Cinematic*  
Emma Osle, Kutztown University

**10:00-10:20 a.m.**

*The Art of Process*  
Catherine Knowles, University of Memphis

### **ART AND COMMUNICATION 314**

**Music**

**9:20-9:40 a.m.**

*Music Theory Pedagogy and the Benefits at an Undergraduate Level*  
Zachary Lloyd, Appalachian State University

**9:40-10:00 a.m.**

*Out Damned Spot: Gender, Madness, and Verdi's Lady Macbeth*  
Mandy Mericle, Appalachian State University

## Student Oral Session 11 - Sat 9:20am-10:20am

### **COMMUNICATION AND FINE ARTS 124**

#### **Music**

**9:20-9:40 a.m.**

*Sounding a Note of Freedom: Beethoven's Ninth in Tiananmen Square and at the Berlin Wall*  
Emily Robinson, Valparaiso University

**9:40-10:00 a.m.**

*Strange Fruit and Stranger Times*  
Alexandra Cebula, Western Carolina University

**10:00-10:20 a.m.**

*Strategies to Alleviate Practice Room Frustrations*  
Ashley Shamhart, Eastern Illinois University

### **DUNN HALL 103 / 105**

#### **Anthropology**

**9:20-9:40 a.m.**

*Pelo Malo: Hair and Identity Among Latina and African American Women*  
Rosemarie Ayala-Soto, Central Connecticut State University

**9:40-10:00 a.m.**

*Perceptions of Rape Culture From Eastern Connecticut State University Students*  
Jolene Potter, Eastern Connecticut State University

**10:00-10:20 a.m.**

*Perceptions on Body Donation by the Researchers Who Utilize Body Donors in Research and Education*  
Meg Taylor, Texas State University - San Marcos

### **DUNN HALL 107**

#### **Communications**

**9:20-9:40 a.m.**

*The Good, The Bad, and The Ugly: The Spaghetti Western and Leone's Frontier*  
Christa Young, University of West Georgia

**9:40-10:00 a.m.**

*The Impact of the Theatre of the Absurd on Seinfeld*  
Emily Furlich, Virginia Commonwealth University

### **DUNN HALL 109**

#### **Biochemistry**

**9:20-9:40 a.m.**

*Compositional Analysis of Stress Granules Containing Ded1 with an ATPase Mutation*  
Daniel Henthorn, Oklahoma State University

**9:40-10:00 a.m.**

*Computational Analysis of the Movement and Inhibition of APOBEC3B*  
Emily Leddin, Truman State University

**10:00-10:20 a.m.**

*Developing Novel Antibiotics to Target MEP Synthase*  
Claire Johnson, George Mason University

### **DUNN HALL 119 / 121**

#### **Biology**

**9:20-9:40 a.m.**

*Corbicula fluminae: Tracking the Invasive Species Up the Tuckasegee River*  
William Turonis, Western Carolina University

**9:40-10:00 a.m.**

*Cyanobacteria Presence in Lake Nicaragua*  
Stephanie Francis, Truman State University

**10:00-10:20 a.m.**

*Development of Microsatellites for the Genus Trillium*  
Catherine Major, University of Memphis

### **DUNN HALL 123/125**

#### **Biology**

**9:20-9:40 a.m.**

*Natural Biofilms Facilitate Quagga Mussel Reattachment*  
Joseph McDermott, Lewis University

**9:40-10:00 a.m.**

*Natural Pesticide Alternatives: Biofumigation*  
Rachel Fletcher, Xavier University

## Student Oral Session 11 - Sat 9:20am-10:20am

### **10:00-10:20 a.m.**

*Nickel Concentrations of the High-Ni Insect  
Melanotrichus boydi, a Specialist on the Ni  
Hyperaccumulator Plant Streptanthus polygaloides  
(Brassicaceae)*  
Jiyeong Choi, Auburn University

### **DUNN HALL 249 / 251**

#### **Mathematics**

#### **9:40-10:00 a.m.**

*Modeling Tsunami Run-Up and Draw-Down on the Beach*  
William Noland, North Central College

#### **10:00-10:20 a.m.**

*New Families of Edge-isoperimetric Graphs*  
Nikola Kuzmanovski, University of Wisconsin - Superior

### **FOGELMAN CLASSROOM BUILDING 264**

#### **International Studies**

#### **9:20-9:40 a.m.**

*Syrian Refugees and the Difficulties of Seeking Asylum in Spain*  
Alyssa Bertoni, University of Kentucky

#### **9:40-10:00 a.m.**

*The Failed Anti-corruption Policies of Enrique Peña Nieto*  
Pedro Izquierdo, Adelphi University

#### **10:00-10:20 a.m.**

*The Question of Justice and Intercultural Encounters in the Internet Age*  
Deanna Johanson, Valparaiso University

### **FOGELMAN CLASSROOM BUILDING 265**

#### **Biology**

#### **9:20-9:40 a.m.**

*Risk of Gastrointestinal Bleeding Associated with the use of Anticoagulants*  
Eve Abraha, White Station High School, University of Memphis

#### **Religion**

#### **9:40-10:00 a.m.**

*Religious Knowledge and Discrimination in Memphis High Schoolers*  
Eleanor Atkinson, White Station High School, University of Memphis

#### **Social Work**

#### **10:00-10:20 a.m.**

*Perceptions of Food Insecurity in Memphis*  
Traja White, White Station High School, University of Memphis

### **FOGELMAN CLASSROOM BUILDING 266**

#### **Education**

#### **9:20-9:40 a.m.**

*High School Perceptions of College Admission Standards*  
Sarthak Bansal, White Station High School, University of Memphis

#### **9:40-10:00 a.m.**

*Comparing Views on Procrastination between Nontraditional and Traditional Students*  
Nathaniel Siler, White Station High School, University of Memphis

#### **10:00-10:20 a.m.**

*The Effects of Self-Efficacy and Academic Disparities on Post-Secondary Development*  
Rhani Stewart, White Station High School, University of Memphis

### **FOGELMAN CLASSROOM BUILDING 268**

#### **Nutrition**

#### **9:20-9:40 a.m.**

*Eating Status and SES in High School Athletes*  
Niharika Srivastava, White Station High School, University of Memphis

#### **Psychology**

#### **9:40-10:00 a.m.**

*Possible Link between Nutrition and Aggressions Based on Socioeconomic Status*  
Caroline Crocker, White Station High School, University of Memphis

## Student Oral Session 11 - Sat 9:20am-10:20am

### **10:00-10:20 a.m.**

*The Cognitive Psychology of Meat and Human-Animal Relations*

Tandon Tanya, White Station High School, University of Memphis

### **JONES HALL 200**

#### **Education**

#### **9:40-10:00 a.m.**

*Intervention Embedded Assessments in a Sample of Struggling Middle School Readers*

Christina Honeycutt, High Point University

### **10:00-10:20 a.m.**

*Intervention Strategies: The Influence of Therapy Dogs on the Reading Accuracy of Reluctant Readers*

Samantha Rogers, Capital University

### **JONES HALL 212**

#### **Literature**

#### **10:00-10:20 a.m.**

*Looking into Death: An Evolution Through Time in England to 1800*

Thanh Truong, University of Central Oklahoma

### **JONES HALL 214**

#### **Literature**

#### **9:20-9:40 a.m.**

*The Strange Case of Dr. Jekyll, Mr. Hyde, and Police Brutality*

Kevyanna Rawls, University of Memphis

#### **9:40-10:00 a.m.**

*The Toni Morrison Initiative*

Khirsty Randles, Mount Saint Mary's University

#### **10:00-10:20 a.m.**

*Themes of the Childhood Experience in the Illustrations of Matilda and Charlotte's Web*

Ellie Erhart, Virginia Commonwealth University

### **JONES HALL 218**

#### **English**

#### **9:20-9:40 a.m.**

*Bad to the Bone: Subliminal Messages, Queer Coding and the Deconstruction of Gender Roles in Rope, Strangers on a Train, and All About Eve*

Grace Guida, Anderson College

#### **9:40-10:00 a.m.**

*Before Barbie: Representations of Doll Culture in 19th Century Children's Literature*

Dianne Wade, Southern Nazarene University

#### **10:00-10:20 a.m.**

*Being the Stream: The Environmental Poetics of Gary Snyder*

Emilio Taiveaho, University of Wisconsin - Eau Claire

### **JONES HALL 226**

#### **English**

#### **9:20-9:40 a.m.**

*Inspiration and Imitation: The Role of the Poet in the Paradox of Creation*

Katelyn Risch, Carthage College

#### **9:40-10:00 a.m.**

*Ishmael's White World*

Lisa Schiller, Western Carolina University

#### **10:00-10:20 a.m.**

*Joseph Beuys and the Performance Art of Post-Structuralism*

Emily Friesen, Houghton College

### **JONES HALL 237**

#### **English**

#### **9:20-9:40 a.m.**

*Spooky Science: Examining the Historical Psychology of Poe's Characters*

Kate Koch, Luther College

#### **9:40-10:00 a.m.**

*Stitches: The Relationship Between Women and Fabrication in Short Legal Fiction*

Alec Masella, Virginia Polytechnic Institute & State University

## Student Oral Session 11 - Sat 9:20am-10:20am

### **JONES HALL 239**

#### **English**

##### **9:40-10:00 a.m.**

*Women of Science Fiction in the 1970s*  
Matt Hamparian, Ohio State University

##### **10:00-10:20 a.m.**

*Writing in the Discipline: Audience, Authority, and Purpose for Undergraduate Philosophy Majors*  
Melissa Schade, Seattle University

### **Philosophy & Ethics**

##### **9:20-9:40 a.m.**

*Compatibility of Agent-Causal Libertarian Free Will and the Principle of Sufficient Reason*  
Nichole Smith, Valparaiso University

### **JONES HALL 243**

#### **Philosophy & Ethics**

##### **9:20-9:40 a.m.**

*Photography as Time Travel*  
Waleska Solorzano, George Mason University

##### **9:40-10:00 a.m.**

*Re-Thinking the Dreaded Comparison*  
Francesco Asano, Brooklyn College

##### **10:00-10:20 a.m.**

*Revisiting the Birds and the Bees: Towards a Philosophically and Biologically Robust Definition of Sex*  
Leon Mire, Eastern Illinois University

### **JONES HALL 249**

#### **English**

##### **9:20-9:40 a.m.**

*Sherlockian Shrines: The Place of Holmes in the 21st Century*  
Victoria Rego, College of Charleston

##### **9:40-10:00 a.m.**

*Shooting Heaven, a Young-Adult Novel in Progress*  
Tashanna Edwards, Eastern Connecticut State University

##### **10:00-10:20 a.m.**

*Skipping Through the Landmines: Revealing the Complex Battle for Britain's Soul in the Early 1930s*  
R. Christian Phillips, Capital University

### **MANNING HALL 202**

#### **History**

##### **10:00-10:20 a.m.**

*The Roots and Effects of Conservatism in Central Pennsylvania*  
Andrew Burlingame, Juniata College

### **Recreation and Leisure Studies**

##### **9:40-10:00 a.m.**

*The Need for Recognition of Invisible Cyclists on the Roads of Richmond, Virginia*  
Elisa Rudolph, Virginia Commonwealth University

### **MANNING HALL 204**

#### **History**

##### **9:20-9:40 a.m.**

*Femininity and Feminism in Courtship in Eighteenth-Century Britain*  
Nicole Langevin, Bridgewater State University

##### **9:40-10:00 a.m.**

*Feminism Through the Disney Princesses*  
Emily Pacini, Illinois College

##### **10:00-10:20 a.m.**

*Fort Ross State Historic Park: A Case Study on the Successful Implementation of Public History Methods by a Heritage Museum*  
Destiny Reyes, Dominican University of California

### **MANNING HALL 222**

#### **History**

##### **9:20-9:40 a.m.**

*Social Justice Tactics: Activism Then and Now*  
Andrew Hutchinson, University of Missouri - Columbia

##### **9:40-10:00 a.m.**

*Sparks of Inspiration: Crazy Horse's Legacy in American Memory*  
Eleanor Froschmayer, Black Hills State University

## Student Oral Session 11 - Sat 9:20am-10:20am

### **10:00-10:20 a.m.**

*Susan B. Anthony, Sacagawea, and Harriet Tubman: Evolving Representations of Women on American Currency*  
Lydia Crain, University of Evansville

### **MANNING HALL 318**

#### **Communications**

#### **9:20-9:40 a.m.**

*Student Sensemaking in Adventure-Based Learning*  
Jamie Smith, University of North Carolina, Charlotte

#### **9:40-10:00 a.m.**

*The "Trump" Card: A Comparative Framing and Content Analysis of Donald Trump's Rhetoric on Immigration and Refugee Issues - Perspectives from Mexico, Pakistan, and Spain*  
Sarah Campbell, Hamline University, St. Paul

#### **10:00-10:20 a.m.**

*A Lack of Social Media and Its Effect on Technological Development, Reception, and Use*  
Meg Lybbert, Eastern Washington University

### **MANNING HALL 320**

#### **History**

#### **9:40-10:00 a.m.**

*The Malignant Betrayer vs. the Mom: Media Portrayals of Gender in the Aldrich Ames Spy Case*  
Gabriela Alvarez, Elon University

#### **Women, Gender, and Sexuality Studies**

#### **9:20-9:40 a.m.**

*Victimization of Women and the Final Girl in Slasher Films*  
Juliene Porciuncula, Cerritos College

### **MANNING HALL 332**

#### **History**

#### **9:40-10:00 a.m.**

*The Historical and Social Analysis of the Narrative of War Films*  
Mary Dickey, Elmhurst College

### **10:00-10:20 a.m.**

*The Katyn Massacre: Cover-up, Suppression, and the Politics of War, from an American Perspective.*  
Joseph Grundhoefer, Hamline University

### **MANNING HALL 340**

#### **Sociology**

#### **10:00-10:20 a.m.**

*Does History Knowledge Influence Racial Attitudes?*  
Oscar Campbell, Hamline University

### **MANNING HALL 413**

#### **Information Technology**

#### **9:20-9:40 a.m.**

*Data Sharing in a Blockchain-backed Internet of Things*  
John Woeltje, Fordham University

#### **9:40-10:00 a.m.**

*ISIS and ISIL's Weaponization of Social Media*  
Milo Rue, Ithaca College

#### **10:00-10:20 a.m.**

*Emergency Department Optimazition Through Dimensional Modeling and Data Visualization*  
Benjamin Petro, Xavier University

### **MANNING HALL 417**

#### **Sociology**

#### **9:20-9:40 a.m.**

*Socio-ecological Comparison of HIV Risk in US and South Africa*  
Quinn Barnette, University of North Carolina, Charlotte

#### **9:40-10:00 a.m.**

*Sociological Perspective of Donald Trump and the Republican Platform Going into the Future*  
Matthew Armento, California University of Pennsylvania

#### **10:00-10:20 a.m.**

*The Cultural Implications of Social Media on Millennials and The Slow Food Movement*  
Kirstie Chia, City University of New York-Brooklyn College

## Student Oral Session 11 - Sat 9:20am-10:20am

### **MANNING HALL 426**

#### **Religious Studies**

**9:20-9:40 a.m.**

*Justin's Demonology in Late Antique and Reformation Christianity: The Polemical Rhetoric of Saint Cults*  
Michelle Sdao, Ohio State University

**9:40-10:00 a.m.**

*Mormonism and the Limits of Political Neutrality*  
Kelsy Hillesheim, Macaulay Honors College at CUNY

### **MEEMAN JOURNALISM 106**

#### **Political Science**

**9:20-9:40 a.m.**

*The Problematic Structure of the Nonprofit System*  
Laura Baasland, Salisbury University

**9:40-10:00 a.m.**

*Achieving Diversity in the Los Angeles Unified School District*  
Candace Yamanishi, Loyola Marymount University

### **MEEMAN JOURNALISM 112**

#### **Political Science**

**9:20-9:40 a.m.**

*Impact of Generalized Morality on Institutional Quality*  
Muhammed Cifci, University of Rochester

**9:40-10:00 a.m.**

*In the Absence of Angels*  
Nicholas Thompson, University of West Florida

**10:00-10:20 a.m.**

*It's Just a Jump to the Right: The Tea Party's Influence On Conservative Discourse*  
Richard Elliott, University of Maryland, Baltimore County

### **MEEMAN JOURNALISM 204**

#### **International Studies**

**9:20-9:40 a.m.**

*A Study of Senegalese Hospitality Through First Hand Experience*  
Maggie Francese, State University of New York-Geneseo

**9:40-10:00 a.m.**

*African Agency in Policy and Project Autonomy: An Analysis of Investment Promotion Centres in Rwanda, Botswana, and Lesotho*  
Rara Reines, University of Georgia

**10:00-10:20 a.m.**

*Ahlan wa Sahlan: Examining the Difficulties and Successes of Resettled Syrian Refugee Women in Lexington, Kentucky*  
Shelby Brown, University of Kentucky

### **PSYCHOLOGY AUDITORIUM A0200**

#### **Experimental Psychology**

**9:20-9:40 a.m.**

*Self Directed Anger and Other Directed Anger: Its Affect on the Use of Stereotypes*  
Kaleigh Snider, Westminster College

**9:40-10:00 a.m.**

*Social Acceptability of Factors Contributing to Psychological Abuse*  
Bethany Wyman, Kennesaw State University

**10:00-10:20 a.m.**

*Stress Levels of College Students Living On-campus Versus Off-campus*  
Olivia Caputo, Elmhurst College

### **PSYCHOLOGY BUILDING 204**

#### **Experimental Psychology**

**9:20-9:40 a.m.**

*The Struggle Is Real: Self-Efficacy and Anxiety in General Chemistry*  
Hope Ketron, The University of Virginia's College at Wise

#### **Women, Gender, and Sexuality Studies**

**10:00-10:20 a.m.**

*Beyond Labels and Boundaries: Queer Chicana Individuals and Psychological Identity Development*  
Minerva Zayas, Eastern Washington University

## **Student Oral Session 13 - Thu 1:40pm-3:40pm**

### **PSYCHOLOGY BUILDING 206**

#### **Experimental Psychology**

**9:20-9:40 a.m.**

*The Effect of Mood Manipulation on Self-Reference Effect Recall*  
Wendy Myers, North Central College

**9:40-10:00 a.m.**

*The Effects of Gender, Age, and Duration on Motivations to Exercise*  
Kimberly Murrietta, Dominican University of California

**10:00-10:20 a.m.**

*The Impact of Affective Content on Memory*  
Rebecca Haynik, Westminster College

### **PSYCHOLOGY BUILDING 230**

#### **Geography & Earth Sciences**

**9:20-9:40 a.m.**

*Remediation of Impaired Water Through a Multitrophic Sustainable Food Machine*  
Joseph Meko, Elon University

**9:40-10:00 a.m.**

*Reptile and Amphibian Monitoring at Sandy Bottom Preserve*  
Madeline McLeod, University of North Carolina - Asheville

**10:00-10:20 a.m.**

*Spring Study and Hydrologic, Geochemical Characteristics of the Albion Basin, Alta, Utah*  
Nicholas Potter, University of Wisconsin - Parkside

### **Student Oral Session 13 - Thu 1:40pm-3:40pm**

#### **CREWS CENTER**

#### **Entrepreneurship**

**1:40-3:40 p.m.**

*Gamification of Life 2.0*  
Oliver Dozier, Arkansas State University

**1:40-3:40 p.m.**

*Motocross For Malaria*  
Esias Bedingar, University of Kentucky

**1:40-3:40 p.m.**

*Our Town Squared*  
Aaron Scherf, Mercer University

## Student Poster Session 1 - Thu 11:00am-12:00pm

### Student Poster Session 1 - Thu 11:00am-12:00pm

#### AFRICAN AMERICAN STUDIES

##### University Center Ballroom - Kiosk 1 Side A

*Institutional Racism Within Educational Systems*  
Cherish Harper, Penn State University

##### University Center Ballroom - Kiosk 1 Side B

*Racialized Violence in the U.S.*  
Janelle Kelly, Penn State University

#### ANTHROPOLOGY

##### University Center Ballroom - Kiosk 2 Side A

*Breastfeeding Attitudes and Experiences in the Memphis, TN Community*  
Anna Church, University of Memphis

##### University Center Ballroom - Kiosk 2 Side B

*Taphonomic and Geological Approaches to the Identification of in Situ Versus Ex Situ Archaeological Material: A Case Study from BK East, Bed II, Olduvai Gorge*  
Elizabeth Wilson, University of North Carolina at Greensboro

#### ASTRONOMY

##### University Center Ballroom - Kiosk 3 Side B

*Examination of Variability in BD+17°4708*  
Jesse McGaha, Austin PEAY State University

#### BEHAVIORAL NEUROSCIENCE

##### University Center Ballroom - Kiosk 3 Side C

*A Higher Contrast Requirement for Letter Recognition in Glaucoma*  
Lillian Chien, University of Alabama at Birmingham

##### University Center Ballroom - Kiosk 4 Side A

*Cocaine Choice: Dissociating Preference from Intake*  
Sai Charaan Yalla, University of Kentucky

##### University Center Ballroom - Kiosk 4 Side B

*Genetics of Co-regulation of Iron, Copper, and Zinc in Mouse Brain*  
Paola Jimenez, University of Memphis

##### University Center Ballroom - Kiosk 4 Side C

*Marijuana and Anxiety in Rodents: A Study of the Relationship Between Baseline Anxiety and Drug-induced Anxiety in a Rodent Model*  
Ashlyn Brown, Westminster College

##### University Center Ballroom - Kiosk 5 Side A

*The Effects of Arachidonoyl Serotonin on Anxiety-like Behavior and Decision-making*  
Andrew Starnes, University of Memphis

#### BIOCHEMISTRY

##### University Center Ballroom - Kiosk 5 Side B

*Rational Design of ySMB and SH13 Epitope Binding Monobodies Against the Phospholipase A2 Receptor: New Tools for Idiopathic Membranous Nephropathy*  
AliReza Zaravar, Rhodes College

##### University Center Ballroom - Kiosk 5 Side C

*Crystallization Chip for High-Throughput*  
Jacqueline Denver, Iona College

##### University Center Ballroom - Kiosk 6 Side A

*Expression, Purification, and Crystallization of AS2*  
Anthony Kwan, Radford University

##### University Center Ballroom - Kiosk 6 Side B

*Interactions of the Fragile X Mental Retardation Protein with BACE1 mRNA and MiR-124-3p*  
Paul Zakutansky, Duquesne University

##### University Center Ballroom - Kiosk 6 Side C

*Protein Engineering to Efficiently Degrade Carbohydrates for Biofuel Production*  
Alberto Rondon, University of Kentucky

##### University Center Ballroom - Kiosk 7 Side A

*Structural Studies of S100-RAGE Complexes*  
Marsha Lashley, Fisk University

##### University Center Ballroom - Kiosk 7 Side B

*Thickness Determination of Droplet Interface Bilayers*  
Michael McGlone, Iona College

## Student Poster Session 1 - Thu 11:00am-12:00pm

### BIOLOGY

#### **University Center Ballroom - Kiosk 8 Side A**

*A Histological Comparison of Ear Skin Regeneration in Acomys and Mus*  
Aaron Sandoval, University of Florida

#### **University Center Ballroom - Kiosk 8 Side B**

*An Investigation of Odd-skipped Genes in C. elegans*  
Elizabeth Del Buono, Eastern Connecticut State University

#### **University Center Ballroom - Kiosk 8 Side C**

*Assessment of Aluminum Tolerance in Salix spp. for Biomass Production and Reclamation of Disturbed Lands*  
Daniel Wolodkin, West Virginia University

#### **University Center Ballroom - Kiosk 9 Side A**

*Bioproduction of Peanut Stilbenoids: Bioactive Compounds for Human Health*  
Carson Day, Arkansas State University

#### **University Center Ballroom - Kiosk 9 Side B**

*Cochlear Nerve Myelination in Mice Lacking Thyroid Hormone Transporters*  
Natalie Moses, Minnesota State University, Mankato

#### **University Center Ballroom - Kiosk 9 Side C**

*Defining Germination Tolerance Ranges for Three Milkweeds (*Asclepias* spp.)*  
Victoria Lason, Augustana College

#### **University Center Ballroom - Kiosk 10 Side A**

*Effect of Removing Kudzu on Abundance and Diversity of Soil Bacteria*  
Natalie Helbling, Georgia College and State University

#### **University Center Ballroom - Kiosk 10 Side B**

*Environmental Effects on Algal Biodiversity and Biomass on Intertidal Rocky Shores.*  
Alec Schwartz, St. John's University

#### **University Center Ballroom - Kiosk 10 Side C**

*Feeding Ecology of Barn Owls (*Tyto alba*; Scopoli, 1769) in Central Pennsylvania*  
Samantha Loh, Susquehanna University

#### **University Center Ballroom - Kiosk 11 Side A**

*Genome-wide Association Study to Examine Insulin Resistance in a Drosophila Model*  
Jelena Merseli, University of Evansville

#### **University Center Ballroom - Kiosk 11 Side B**

*Identification of Novel Cardiogenic Regulators*  
Kennedy Camden, Indiana State University

#### **University Center Ballroom - Kiosk 12 Side A**

*Keratin Attenuates Melanoma Cancer Cell Proliferation*  
BreAnna Davids, Western Carolina University

#### **University Center Ballroom - Kiosk 12 Side C**

*Pacific Green Sea Turtle (*Chelonia mydas*) Reaction to Human Involvement in the Galapagos Islands*  
Rachel Kueppers, College of Saint Benedict/ St. John's University

#### **University Center Ballroom - Kiosk 13 Side A**

*Protein Coding Gene Sequences in Molecular Phylogeny*  
Catheryne Gambill, Longwood University

#### **University Center Ballroom - Kiosk 13 Side B**

*Stress, Sprint Speed, and Respiration in Coast Range Fence Lizards (*Sceloporus occidentalis bocourti*)*  
Amanda Dukes, St Mary's College of California

#### **University Center Ballroom - Kiosk 13 Side C**

*Distribution and Habitat Associations of the Common Garter Snake in Wetland Habitats of Southeastern Massachusetts*  
Emily Donahue, Bridgewater State University

#### **University Center Ballroom - Kiosk 14 Side A**

*The Relationship Between Lung Size and Tail Curvature of *Xenopus laevis* Tadpoles*  
Nicole Hoguet, James Madison University

#### **University Center Ballroom - Kiosk 14 Side B**

*Using Scanning Electron Microscopy and Atomic Force Microscopy to Observe LEA Protein Function*  
Scott Janis, University of Wisconsin - Whitewater

## Student Poster Session 1 - Thu 11:00am-12:00pm

### BIOMEDICAL ENGINEERING

#### University Center Ballroom - Kiosk 14 Side C

*Development of Inorganic Brain Model for Electrochemical Characterization of Microelectrodes*  
Saher Aqeel, University of Texas at Dallas

#### University Center Ballroom - Kiosk 15 Side B

*The Variability of Cortical Bone Stiffness Along the Femur Shaft*  
Jack Nguyen, Winthrop University

### BUSINESS/FINANCE/ACCOUNTING

#### University Center Ballroom - Kiosk 19 Side B

*Fraud Auditing in the Era of Big Data*  
Katherine Korol, Elon University

### CELL & MOLECULAR BIOLOGY

#### University Center Ballroom - Kiosk 19 Side C

*A Knockout Mutation in the Yeast DUF1 Gene Increases Oxidative Stress Survival*  
Samantha Allen, Salisbury University

#### University Center Ballroom - Kiosk 20 Side A

*Determining the Method of Human Pathogenic Tau Spread*  
Rachel Furhang, City University of New York- College of Staten Island

#### University Center Ballroom - Kiosk 21 Side A

*GBF1 Localizes to Plasma Membrane Sites Involved in Adhesion and Motility in Neurons and Glioblastoma Cells*  
Akhil Kaushik, University of Alabama at Birmingham

#### University Center Ballroom - Kiosk 22 Side A

*Impact of the Human Lung Mucosa in Mycobacterium Tuberculosis Infection*  
Holden Kelley, Ohio State University

#### University Center Ballroom - Kiosk 23 Side A

*Optimization of Tripartite Motif E3-Ubiquitin Ligase Protein Expression and Isolation in Mammalian Cells*  
Ilesh Patel, Ohio State University

### University Center Ballroom - Kiosk 24 Side A

*Structural and Functional Insight into Cyclic Nucleotide Gated Channel Selectivity*  
George Zeng, University of Texas at Austin

### University Center Ballroom - Kiosk 25 Side A

*Upregulating CD155 to Enhance Oncolytic Poliovirotherapy on Glioblastoma*  
Sadaf Kolia, Virginia Commonwealth University

### CELLULAR NEUROSCIENCE

#### University Center Ballroom - Kiosk 26 Side A

*Effect of Reactive Oxygen Species Generators on Mitoneet Expression in Astrocytes and Brain Endothelial Cells*  
Patricia Doyle, West Virginia University

#### University Center Ballroom - Kiosk 27 Side A

*N-acetyl-L-cysteine Mitigates Lewy-like Pathology in Experimental Parkinson's Disease in Vivo and in Vitro*  
Kristin Miner, Duquesne University

### CHEMICAL ENGINEERING

#### University Center Ballroom - Kiosk 16 Side A

*Case Study of Facility Risk Analysis Using Computational Tools*  
Julia Lin, Lamar University

### CHEMISTRY

#### University Center Ballroom - Kiosk 20 Side B

*"Re-evaluating IBU Formulas for Calculating Beer Bitterness"*  
Garrett Williams, Appalachian State University

#### University Center Ballroom - Kiosk 21 Side B

*Analysis of Rotational Barriers of a Secondary Hydroxamic Acid in Aqueous Solution by NMR Spectroscopy*  
Caleb Griesbach, University of Wisconsin - La Crosse

#### University Center Ballroom - Kiosk 23 Side B

*Evaluating Copper Photoredox Catalysis Through Coupling of Aldehydes and Alkyl Bromides*  
Hannah Owens, Black Hills State University

## Student Poster Session 1 - Thu 11:00am-12:00pm

### **University Center Ballroom - Kiosk 24 Side B**

*Identification of Adsorption Sites for Nucleobases on Clay Mineral Surfaces*  
Hannah Kats, North Central College

### **University Center Ballroom - Kiosk 25 Side B**

*Molecular Modeling and Docking Studies of Small Molecules Targeting Interleukin-1 Converting Enzyme*  
Jihyun Lee, George Mason University

### **University Center Ballroom - Kiosk 26 Side B**

*Polyphenolic Compounds from Hypericum Punctatum Leaves*  
Ayana Smith, Susquehanna University

### **University Center Ballroom - Kiosk 27 Side B**

*Selective Benzylic C-H Monooxidation Mediated by Iodine Oxides*  
Kelsey LaMartina, North Central College

### **University Center Ballroom - Kiosk 29 Side B**

*Synthesis of Iridium Coordination Complex and Metal-organic Framework via Microwave Irradiation*  
Samantha Klietz, State University of New York-Brockport

### **University Center Ballroom - Kiosk 30 Side B**

*The Intersection of Chemistry and Archeology: Analysis of Fatty Acid Residue Extracted from Early Bronze Age Pottery Found at Khirbat Iskandar, Jordan*  
Hannah Harbin, Lubbock Christian University

### **University Center Ballroom - Kiosk 31 Side B**

*Using Novel Flavonoid Derivatives as Tau Self-Aggregation Inhibitors for the Treatment of Alzheimer's Disease*  
Sarah Martin, Georgia College and State University

## **CIVIL ENGINEERING**

### **University Center Ballroom - Kiosk 17 Side C**

*Remote Sensing Approach to Upstream Slope Inspection*  
Travis Shoemaker, Lafayette College

## **CLINICAL PSYCHOLOGY**

### **University Center Ballroom - Kiosk 32 Side B**

*Predicting Attachment to God in Victims of Trauma: A Take on Narrative Complexity*  
Hazel Brooks, Southern Nazarene University

### **University Center Ballroom - Kiosk 33 Side B**

*Complexity of Treatment Access Among Women Drug Treatment Court Participants with HIV or Hepatitis C Virus According to the Socio-Ecological Model*  
Meghan Connor, University of Rochester

### **University Center Ballroom - Kiosk 35 Side A**

*Far from Normal: How a Live, Theatrical Performance Affects Audience Attitudes Towards Mental Illness*  
Jesus Martinez, North Central College

### **University Center Ballroom - Kiosk 36 Side A**

*Misleading Information in Social Media News: How Bias Effects Perceptions*  
Amber Jackson, Dominican University of California

### **University Center Ballroom - Kiosk 37 Side A**

*Relationship Between Illness Invalidation and Symptom Severity in Individuals with Myalgic Encephalomyelitis/ Chronic Fatigue Syndrome and Fibromyalgia*  
Rebecca Massey, University of Alabama at Birmingham

### **University Center Ballroom - Kiosk 38 Side A**

*The Need for Psychologists in the Field of First Responders in Response to Nuclear Disasters*  
Elizabeth Barrett, University of West Florida

## **COGNITIVE NEUROSCIENCE**

### **University Center Ballroom - Kiosk 36 Side B**

*Alice in Wonderland Syndrome in Patients with Brain Lesions and CSF Shunting*  
Joel Greenup, Florida International University

### **University Center Ballroom - Kiosk 37 Side B**

*Neural Correlates of Spatial Navigation Ability Development*  
Sanaya Irani, Wayne State University

## Student Poster Session 1 - Thu 11:00am-12:00pm

### COMMUNICATIONS

#### University Center Ballroom - Kiosk 38 Side B

*"She Made Angry Black Woman Something That People Would Want to Be": Examining Identity Expression and Interpretation Through "Lemonade"*  
Ashton Toone, University of Memphis

#### University Center Ballroom - Kiosk 39 Side B

*Intergenerational Communication Effectiveness Training in a Preschool Classroom*  
Mallory Schroeder, University of Wisconsin - Whitewater

#### University Center Ballroom - Kiosk 40 Side B

*The Difference in Perception of Job Discrimination Amongst Muslims, Individuals Perceived to Be Muslim, and Non-Muslims*  
Matthew Odom, George Mason University

### COMPUTER SCIENCE

#### University Center Ballroom - Kiosk 36 Side C

*Computing an Algorithm to Detect Three Dimensional Objects in Space*  
Ken Ryumae, Western Kentucky University

#### University Center Ballroom - Kiosk 38 Side C

*Implications of Telemedical Technology Use on Rural Healthcare Delivery and Management*  
Janna Madden, University of Minnesota, Duluth

#### University Center Ballroom - Kiosk 39 Side C

*Reconstruction With Flags*  
Christiana Straub, Susquehanna University

### ECOLOGY & ORGANISMAL BIOLOGY

#### University Center Ballroom - Kiosk 41 Side C

*Age Determination of Voles (*Microtus spp.*, Schrank, 1798) Based on Wear of the Occlusal Surfaces on Individual Molars Consumed by Barn Owls (*Tyto alba*, Scopoli, 1769)*  
Laura Spence, Susquehanna University

#### University Center Ballroom - Kiosk 42 Side C

*Effects of Ethynodiol on Carotenoid Allocation*  
Gregory Milburn, University of Kentucky

### University Center Ballroom - Kiosk 43 Side C

*Is Sperm Extrusion a Mechanism of Post-copulatory Female Choice in the Red Flour Beetle?*  
Jenai Bostic, Spelman College

### University Center Ballroom - Kiosk 44 Side A

*The Effect of Wind Speed on Tree Swallow Breeding Success*  
Rachelle Ketelhohn, University of Wisconsin - Milwaukee

### ECONOMICS

#### University Center Ballroom - Kiosk 39 Side A

*A Long Run Economic Analysis of NHL Expansion*  
Christopher Watkins, Eastern Washington University

#### University Center Ballroom - Kiosk 61 Side A

*Economic Growth Within the Andean Community*  
Madison Davis-Biessener, Augsburg College

### EDUCATION

#### University Center Ballroom - Kiosk 41 Side B

*An Exploration of Students' Base-Ten Concepts*  
Emily Hawthorne, Salisbury University

#### University Center Ballroom - Kiosk 42 Side B

*Drawing and Young Children's Learning*  
June Chong, University of Central Oklahoma

#### University Center Ballroom - Kiosk 43 Side B

*Literacy in Museum Experience (Milwaukee)*  
Robert Mikenis, University of Wisconsin - Milwaukee

#### University Center Ballroom - Kiosk 44 Side C

*Technology in Elementary Education*  
Emily LaVergne, Bridgewater State University

### ELECTRICAL ENGINEERING

#### University Center Ballroom - Kiosk 18 Side B

*Overhead Assistive Robot*  
Nicholas Neal, Western Carolina University

## Student Poster Session 1 - Thu 11:00am-12:00pm

### ENGINEERING/ENGINEERING TECHNOLOGY

#### University Center Ballroom - Kiosk 16 Side B

*A New Generation of Maze for a Drosophila Olfactory Memory Assay*  
Alyssa Risner, Coastal Carolina University

#### University Center Ballroom - Kiosk 16 Side C

*Mechanisms of Cell Recruitment in Scaffolds Using in Vitro Models*  
Kevin Wu, Drexel University

### ENGLISH

#### University Center Ballroom - Kiosk 42 Side A

*Double Consciousness Beyond DuBois*  
Jordan Kern, Elmhurst College

### ENVIRONMENTAL STUDIES & SCIENCES

#### University Center Ballroom - Kiosk 43 Side A

*Detection and Avoidance of Right Whales Along the Northeast Coast of the United States*  
Ainsley Fruhwirth, United States Coast Guard Academy

### EXPERIMENTAL PSYCHOLOGY

#### University Center Ballroom - Kiosk 44 Side B

*Cell Phone Use Latency in a Midwestern University Area Population*  
Dora Juhasz, University of Michigan

#### University Center Ballroom - Kiosk 45 Side B

*Can a Humane Education After School Program Increase Empathy and Self Esteem?*  
Angelica Huettl, Dominican University of California

#### University Center Ballroom - Kiosk 46 Side B

*Cultural Differences in the Preference of a Photograph*  
Ernest Garcia, Dominican University of California

#### University Center Ballroom - Kiosk 47 Side B

*Effectiveness of Lumosity Vs Well-known Memory Techniques on Memory Tasks and Perceptions*  
Rebecca Osborn, Minnesota State University, Mankato

#### University Center Ballroom - Kiosk 48 Side B

*Hiring Practices*  
Riley Wyatt, University of Central Oklahoma

#### University Center Ballroom - Kiosk 50 Side B

*Paws and Effect: A Quasi-Experimental Examination of Pet Influence on Friendship and Workplace Attitudes*  
Madeline Kuklo, Webster University

#### University Center Ballroom - Kiosk 51 Side B

*Recurrent Testing Decreases Retroactive Interference in Multiple Text Comprehension*  
Katy Higgins, University of Memphis

#### University Center Ballroom - Kiosk 52 Side B

*The Attitude Similarity Attraction Effect Is Moderated by Attitude Strength*  
Michael White, Elmhurst College

#### University Center Ballroom - Kiosk 53 Side B

*The Interactive Influence of Interest Level and Difficulty Perceptions on Job Training Outcomes*  
Alanna Roesler, University of Wisconsin - La Crosse

### GEOGRAPHY & EARTH SCIENCES

#### University Center Ballroom - Kiosk 45 Side A

*Determination of Elemental Arsenic and Leachable Arsenic in Aquifer Sediment Samples of Bangladesh*  
TABASSUM AHMED, City University of New York- York College

#### University Center Ballroom - Kiosk 46 Side A

*Central Appalachian Surface Mines: Paradise Lost or an Overlooked Hotspot for Green Salamanders?*  
Michael Hinkle, The University of Virginia's College at Wise

#### University Center Ballroom - Kiosk 47 Side A

*Discrimination of Oats and Spring Wheat Using Hyperspectral Remote Sensing*  
Allison Kaiser, University of Wisconsin - Whitewater

#### University Center Ballroom - Kiosk 48 Side A

*Heavy Metals in Bio-infiltration Swales in Spokane, WA*  
Christa Murphy, Eastern Washington University

#### University Center Ballroom - Kiosk 49 Side A

*Nano Structures for Solar Light-Mediated Hydrogen Production*  
Samuel King, Arkansas State University

## Student Poster Session 1 - Thu 11:00am-12:00pm

### **University Center Ballroom - Kiosk 50 Side A**

*Spatial Relationships and Demographics of Grizzly Bears in Yellowstone National Park*  
Tyler Brasington, University of Wisconsin - Whitewater

### **University Center Ballroom - Kiosk 51 Side A**

*Understanding the Sub-Surface Geochemistry During the Evolution of the Natron Rift*  
Codi Wiersma, Virginia Polytechnic Institute & State University

### **HEALTH SCIENCES**

#### **University Center Ballroom - Kiosk 40 Side A**

*The Relationship Between Chronic Life Stress and the Development of Internalizing Disorders*  
Megan Kibler, University of Rochester

#### **University Center Ballroom - Kiosk 55 Side A**

*Under the Influence: The Impact of Pharmacy Services on Opioid Prescribing in Dental Practice*  
Kelsey Zborovancik, Duquesne University

#### **University Center Ballroom - Kiosk 59 Side B**

*Are College Students Playing Hard So That They Can Drink Harder?*  
Sarah Wyand, Miami University

#### **University Center Ballroom - Kiosk 60 Side B**

*Effects of Phencyclidine on Loco-motor Activity*  
Olakorede Akintelure, Creighton University

#### **University Center Ballroom - Kiosk 61 Side B**

*Impacts of Environmental and Management Factors on the Nutritional Quality of Mint, Spinach, Tomatoes, Basil and Pak Choi and Correlation with the Functional Quality of Chinese Medicinal Herbs*  
Debra Kraner, Montana State University Bozeman

### **HISTORY**

#### **University Center Ballroom - Kiosk 40 Side C**

*Brains Behind Broadcasted Behavior: The Science of British WWII Homefront Propaganda*  
Abigail Schrader, Creighton University

### **INDUSTRIAL/SYSTEMS ENGINEERING**

#### **University Center Ballroom - Kiosk 17 Side B**

*Optimizing Throughput for a Wireless Network with Directional Antennas Subject to Signal Jamming*  
William Leonard, Mississippi State University

### **INTERNATIONAL STUDIES**

#### **University Center Ballroom - Kiosk 62 Side A**

*Closing the Gender Gap: The Role of Migrant Women in Senegal*  
Anna Bachan, New York University

### **KINESIOLOGY & EXERCISE SCIENCE**

#### **University Center Ballroom - Kiosk 58 Side A**

*How Parental Pressure on Undergraduate Female Athletes May Heighten Cortisol Levels and Augment Anterior Cruciate Ligament (ACL) Tear Risk: Identifying At-Risk Athletes and Proposed Solutions*  
Jessica Wimberly, Virginia Commonwealth University

#### **University Center Ballroom - Kiosk 59 Side A**

*Switching Is Not Easy! Neuromuscular Changes During Running Preceded by a Bout of Cycling in Triathletes*  
Kimberly Ross, University of Wisconsin - La Crosse

### **LINGUISTICS**

#### **University Center Ballroom - Kiosk 62 Side B**

*A Study on Back Vowel Merger in New York City English*  
Steve Arriaga, City University of New York- College of Staten Island

### **MANAGEMENT**

#### **University Center Ballroom - Kiosk 15 Side C**

*Student Preparation Based Upon Major: What Influences Their Satisfaction?*  
Khadedra Hylton, Clark Atlanta University

### **MATHEMATICS**

#### **University Center Ballroom - Kiosk 56 Side A**

*Determining Factors for Elderly Independent Living*  
Emily Kelting, University of Central Oklahoma

## Student Poster Session 1 - Thu 11:00am-12:00pm

### MECHANICAL ENGINEERING

#### University Center Ballroom - Kiosk 52 Side A

*Analysis of Propulsion Systems in Unmanned Electrical Multirotor Aerial Vehicles with VTOL Characteristic and Fixed Pitch Actuators*

Hector Mendes, University of Minnesota, Duluth

#### University Center Ballroom - Kiosk 54 Side A

*Large Deflection Non-linear Coefficients of a Free Vibrating Laminated Composite Shallow Shell Panel*

Kyle Gordon, Midwestern State University

### MICROBIOLOGY & IMMUNOLOGY

#### University Center Ballroom - Kiosk 19 Side A

*Chorioallantoic Model for Studying Non-invasive Bladder and Renal Cancer Treatment*

Xin (Sandy) Xu, University of Alberta

#### University Center Ballroom - Kiosk 32 Side A

*Antimicrobial Properties of Novel Silver(I) Cyanoximates*

Erin Gallaway, Oklahoma State University

#### University Center Ballroom - Kiosk 33 Side A

*Gastrointestinal Microbiota's Connection to Autism*

Cara Horstman, Trinity Christian College

### MUSIC

#### University Center Ballroom - Kiosk 1 Side C

*A Balanced Eastern & Western Music Is the Key to Modern Music Development*

Zishan Ming, University of the Pacific

### NURSING

#### University Center Ballroom - Kiosk 54 Side B

*The Relationship Between Diabetes Duration and Glycemic Control Among Patients with Multiple Chronic Diseases*

Taylor Giambrone, University of Pittsburgh School of Nursing

#### University Center Ballroom - Kiosk 55 Side B

*Correlates of Cognitively Impaired Older Adults' Willingness to Participate in Clinical Research*

Mengchi Li, University of Pittsburgh School of Nursing

### University Center Ballroom - Kiosk 58 Side B

*Recruitment of OEF/OIF Veterans: Barriers and Feasibility in a Mobile Application Study*

Rebecca Morris, University of Pittsburgh School of Nursing

### NUTRITION

#### University Center Ballroom - Kiosk 34 Side A

*Mechanisms Mediating Effects of Eicosapentaenoic Acid in Hepatic Steatosis in High Fat Fed Mice and in HepG2 Hepatoma Cells*

Samantha Gonzalez, Texas Tech University

#### University Center Ballroom - Kiosk 34 Side B

*Gluttony in the Modern World*

Samantha Lew, Appalachian State University

### PHILOSOPHY & ETHICS

#### University Center Ballroom - Kiosk 35 Side B

*A Critique of Convergent Realism and a Pragmatic Approach to Scientific Inquiry*

Monika Greco, University of Wisconsin - Oshkosh

### PHYSICS

#### University Center Ballroom - Kiosk 31 Side C

*Energy and Time Dependence of the Photo-Response of Arsenic Sulphide Thin Films*

Josh Allen, Austin PEAY State University

#### University Center Ballroom - Kiosk 32 Side C

*Change in Optical Band Gap on Anatase TiO<sub>2</sub>*

*Nanoparticles Layer-by-layer Assembly*

Joshua Preston, University of West Georgia

#### University Center Ballroom - Kiosk 33 Side C

*Evaluation and Development of Secondary BalloonSAT Payloads*

Justin Barnes, Arkansas State University

#### University Center Ballroom - Kiosk 34 Side C

*Measuring Refractive Index of Infrared Materials with Interferometry*

Sze Wah Lee, University of Rochester

## **Student Poster Session 1 - Thu 11:00am-12:00pm**

### **PHYSIOLOGY**

#### **University Center Ballroom - Kiosk 31 Side A**

*Internal Laboratory Validation of Brachial and Femoral Artery Diameters During Flow Mediated Dilation*  
Brycen Ratcliffe, Indiana State University

### **POLITICAL SCIENCE**

#### **University Center Ballroom - Kiosk 29 Side A**

*Message Matters: How Kellyanne Conway Redirected the Focus of Donald Trump's Twitter Account*  
Molly Grant, University of Michigan

#### **University Center Ballroom - Kiosk 30 Side A**

*The Presidency and Entrepreneurship: Discovering New International Trade Policies for the 21st Century*  
Wesley Hungbui, Rice University

### **PUBLIC HEALTH**

#### **University Center Ballroom - Kiosk 28 Side C**

*Exploring the Relationship Between Body Image and Alcohol Consumption Among Sorority Members and Non-members*  
Antonia Caba, Miami University

#### **University Center Ballroom - Kiosk 30 Side C**

*Sexual Assault Victimization Among Varied Personality Traits*  
Nick Vanderhoof, Miami University

### **SOCIAL WORK**

#### **University Center Ballroom - Kiosk 26 Side C**

*Medical Provider's Perception of ESRD Patients*  
Taylor Henry, George Mason University

### **SOCIOLOGY**

#### **University Center Ballroom - Kiosk 3 Side A**

*Graduation in an Era of Uncertainty: Student Loan Repayment Following the Great Recession*  
Hannah Kleman, Ohio State University

#### **University Center Ballroom - Kiosk 22 Side C**

*Are There Too Many Fish in the Sea? Too Many Options with Online Dating Lead to Less Commitment*  
Monica Fink, Dominican University of California

### **University Center Ballroom - Kiosk 24 Side C**

*The "Smart" Drug: A Qualitative Study of Perceived Effects of the Stimulant Adderall® and User Patterns Associated with Its Nonmedical Use*  
Pearl Gronquist, University of Wisconsin - Stout

### **WOMEN, GENDER, AND SEXUALITY STUDIES**

#### **University Center Ballroom - Kiosk 20 Side C**

*Bisexuality in Mass Media and Its Effects on Bisexual Individuals*  
Clare Yordy, George Mason University

## Student Poster Session 2 - Thu 12:20pm-1:20pm

### Student Poster Session 2 - Thu 12:20pm-1:20pm

#### ARCHITECTURE & INTERIOR DESIGN

##### University Center Ballroom - Kiosk 2 Side C

Digital Architects

Julianne Theriault, Rhodes College

#### ART HISTORY

##### University Center Ballroom - Kiosk 1 Side A

Early Christian Art & Theological Aesthetics

Alyssa Whiting, Utah Valley University

#### ASTRONOMY

##### University Center Ballroom - Kiosk 3 Side B

Finding New Galactic Interstellar Neutral Hydrogen Shells

Rebecca Taylor, University of Wisconsin - La Crosse

#### BEHAVIORAL NEUROSCIENCE

##### University Center Ballroom - Kiosk 3 Side C

Affects of Prenatal Food Deprivation on Offspring Microglial Morphology

Elizabeth Jones, Susquehanna University

##### University Center Ballroom - Kiosk 4 Side A

Constructing a Chronic Neural Ensemble Recording System

Thomas Geiser, University of Wisconsin - Whitewater

##### University Center Ballroom - Kiosk 4 Side C

Methylphenidate Exposure in Late Adolescent Mice Leads to Adult Cross-sensitization

Savannah Moore, University of North Georgia

##### University Center Ballroom - Kiosk 5 Side A

The Effects of Expectancy on Physiological Arousal and Cognitive Performance Under Blue-Enriched Lighting Conditions

Stephen Guion, George Mason University

#### BIOCHEMISTRY

##### University Center Ballroom - Kiosk 5 Side B

Biochemical Characterization of DNA Polymerase in *Cryptococcus Neoformans*

ReLiza McGinnis, Western Carolina University

##### University Center Ballroom - Kiosk 5 Side C

Determination of Biomarkers for Autoimmune Diseases In DNA Replication and Repair and Galectin-3 Enzymes

Elena Hunsanger, Wayne State University

##### University Center Ballroom - Kiosk 6 Side A

Extension of RBC Longevity and Functionality in the Prevention of Graft Versus Host Disease

Shanmuka Gadiraju, Virginia Commonwealth University

##### University Center Ballroom - Kiosk 6 Side C

Purification and Preliminary Characterization of the R178C ITPase Mutant

Caitlin April, Eastern Washington University

##### University Center Ballroom - Kiosk 7 Side B

Type 2 Transglutaminase Conformational Activity and Cancer Stem Cell Survival

Bailey Nance, University of Maryland, Baltimore County

#### BIOLOGICAL ENGINEERING

##### University Center Ballroom - Kiosk 7 Side C

Electrospinning of Pectin-based Nanofibers for Biological and Medical Applications

Romare Antrobus, Lawrence University

#### BIOLOGY

##### University Center Ballroom - Kiosk 8 Side A

A Long-Term Study of Cortisol as a Biomarker for Chronic Stressors in Bond Volunteer Aspirants

George Graham, The Citadel

##### University Center Ballroom - Kiosk 8 Side B

Analysis of Active Antimicrobial Compounds Found in the Tongan Medicinal Plant *Syzygium Corynocarpum*

Nicholas England, The University of Virginia's College at Wise

## Student Poster Session 2 - Thu 12:20pm-1:20pm

### University Center Ballroom - Kiosk 9 Side A

*Can Your Mom Stress You Out Before You're Born?*  
Alycia Summers, Ithaca College

### University Center Ballroom - Kiosk 9 Side B

*Comparative Analysis of *D. longicaudata* entomopoxvirus Early Transcription Factor Genes Sets *DIEPV* Apart Within the Entomopoxvirinae.*  
Jennifer Wilcox, Eastern Washington University

### University Center Ballroom - Kiosk 9 Side C

*Development of Quantum Dots as Single Molecular PH Sensors in  $\beta$  Cells*  
Nikhil Yedula, Wayne State University

### University Center Ballroom - Kiosk 10 Side A

*Effective Cleaning Methods of Woodwind Reeds by Chemical Cleaners and UV Light*  
Josh Baty, University of Evansville

### University Center Ballroom - Kiosk 10 Side B

*Environmental Toxins and Attention Deficit Hyperactivity Disorder: Investigating the Link Between Phthalates and Hyperactive Behavior in Zebrafish*  
Emma Davidman, Elon University

### University Center Ballroom - Kiosk 10 Side C

*Fine Scale Genetic Structure Study of Small and Large Populations of *Sympyotrichum georgianum* (Georgia Aster)*  
William Mills, The Citadel

### University Center Ballroom - Kiosk 11 Side A

*Genomic Analysis of 12 Novel Phage Infecting the Bacterial Host Species, *Corynebacterium**  
Aleksandra Foksinska, University of Alabama at Birmingham

### University Center Ballroom - Kiosk 11 Side B

*Identifying Mechanisms Involved in Neuronal Hyperactivity in *Drosophila**  
Erin Darr, Truman State University

### University Center Ballroom - Kiosk 11 Side C

*Investigating the Effect of Severe Drought on Parasite Prevalence and Diversity*  
Joshua Sassi, Norwich University

### University Center Ballroom - Kiosk 12 Side A

*Localization of *Tps1* and *Tps2* Proteins in the Pathogenic Yeast, *Cryptococcus neoformans**  
Erin Cafferty, Western Carolina University

### University Center Ballroom - Kiosk 12 Side B

*Mineralization and Structural Anatomy of Bone from Male C57/BL6 Mice with Reduced Testosterone Levels*  
Katie Rubitschung, Minnesota State University, Mankato

### University Center Ballroom - Kiosk 12 Side C

*Parental Aggression in Relation to Egg and Nestling Quality in Eastern Bluebirds (*Sialia sialis*), Tree Swallows (*Tachycineta bicolor*), and House Sparrows (*Passer domesticus*)*  
Marissa Rossi, Lafayette College

### University Center Ballroom - Kiosk 13 Side B

*Survey of Ants (Hymenoptera, Formicidae) at Two Elevations in the Northern Black Hills in South Dakota*  
Jessie Clark, Black Hills State University

### University Center Ballroom - Kiosk 13 Side C

*The Effect of Stratification on Seed Bombs of 5 Species of Native Plants*  
Kirsten Schmidt, University of Wisconsin - River Falls

### University Center Ballroom - Kiosk 14 Side B

*Variation in Milkweed Tolerance Against Herbivory*  
Jacqueline Nuzzo, St Olaf College - Admissions

## BIOMEDICAL ENGINEERING

### University Center Ballroom - Kiosk 15 Side A

*Optimization of Gelatin/Alginate Hydrogel for 3D Bioprinting Human iPS Cells*  
Adam Kolling, Concordia College - Moorhead

## BUSINESS/FINANCE/ACCOUNTING

### University Center Ballroom - Kiosk 19 Side A

*Behavioral Effects of Compensation Contracts*  
AnnMarie Huet, Iowa State University

## Student Poster Session 2 - Thu 12:20pm-1:20pm

### **University Center Ballroom - Kiosk 19 Side B**

*Fundraising Strategies to Promote More Profitable Organizational Fundraisers*  
Sarah Baugess, Kennesaw State University

### **CELL & MOLECULAR BIOLOGY**

#### **University Center Ballroom - Kiosk 19 Side C**

*A Sequence Comparison of Cytochrome Oxidase I in Hadenoeus Cumberlandicus Populations Found in the Sloans Valley Cave System, Pulaski County, Kentucky*  
Brandon Miner, Wittenberg University

#### **University Center Ballroom - Kiosk 21 Side A**

*Genetic Perturbation of the Ribosome Affects Biogenesis of F508del-CFTR*  
Jessica Maya, University of Alabama at Birmingham

#### **University Center Ballroom - Kiosk 23 Side A**

*Prenylated Stilbenoids: Potential Anti-Obesity Compounds from Peanut*  
Christine Matei, Arkansas State University

#### **University Center Ballroom - Kiosk 24 Side A**

*The Detection of Mutated Human GNAQ in a Transgenic Zebrafish Model of Uveal Melanoma*  
Benjamin Boren, Carthage College

#### **University Center Ballroom - Kiosk 25 Side A**

*Validation of StockMarks for Dogs Genotyping Kit for Canine DNA Profiling in Forensics*  
Gretel Arcia Gonzalez, Florida International University

### **CELLULAR NEUROSCIENCE**

#### **University Center Ballroom - Kiosk 27 Side A**

*Neurotoxicity Gene Expression Following Adolescent Amphetamine and Methylphenidate Exposure*  
Frank Ventura, University of North Georgia

### **CHEMISTRY**

#### **University Center Ballroom - Kiosk 20 Side B**

*The Role of Secondary Structure in Sonolytic Deactivation of Enzymes*  
Rebecca Hetz, Gannon University

### **University Center Ballroom - Kiosk 21 Side B**

*Analysis of Trichloroethylene in Water*  
Elizabeth Withers, Salisbury University

#### **University Center Ballroom - Kiosk 22 Side B**

*Development of a Thermoelectric Cooling Prototype*  
Thomas Coull, University of Wisconsin - Whitewater

#### **University Center Ballroom - Kiosk 23 Side B**

*Evaluation of Crown Ether for Extraction of Inorganic Gunshot Residue and Analysis Via Electrospray Ionization Tandem Mass Spectrometry (QqQ)*  
Sydney Brooks, West Virginia University

#### **University Center Ballroom - Kiosk 24 Side B**

*Identifying Adulterated Aromatherapy Products by Chiral GC-MS Analysis*  
MaKenna Johnosn, Utah Valley University

#### **University Center Ballroom - Kiosk 25 Side B**

*Molecular Modeling Studies to Elucidate the Effect of Isomerization on Disperse Dye Photodegradation*  
Ciera Cipriani, North Carolina State University

#### **University Center Ballroom - Kiosk 26 Side B**

*Polyproline Folding: Effect of Chain Length and Interactions*  
Amanda Miller, Moravian College

#### **University Center Ballroom - Kiosk 27 Side B**

*Simple, Robust Modification of Biginelli Compounds*  
Nozomi Arai, Arkansas State University

#### **University Center Ballroom - Kiosk 28 Side B**

*Synthesis and Antibacterial Studies of Pyrazole-derived Alkenes*  
Devin Allison, Arkansas State University

#### **University Center Ballroom - Kiosk 29 Side B**

*Synthesis of Non-natural Amino Acids*  
Marissa Munoz, University of Wisconsin - Oshkosh

#### **University Center Ballroom - Kiosk 30 Side B**

*The New Fossil Fuels*  
Desiree Caceres, Dominican University of California

## Student Poster Session 2 - Thu 12:20pm-1:20pm

### **University Center Ballroom - Kiosk 31 Side B**

*Using QSARINS to Predict the Bacteriostatic Effect of Antimicrobial Compound Candidates Against Foodborne Pathogens*

Hunter Gill, Indiana State University

### **CIVIL ENGINEERING**

#### **University Center Ballroom - Kiosk 17 Side C**

*Salinity of Snow Cast Off of the North Star Bridge - Minnesota*

Jonathan Rudolph, Minnesota State University, Mankato

### **CLINICAL PSYCHOLOGY**

#### **University Center Ballroom - Kiosk 32 Side B**

*1. The Effects of a Creative Arts Outreach Program on Behaviors of Psychiatric Adolescent Inpatients*

Bailee Kulish, Black Hills State University

#### **University Center Ballroom - Kiosk 33 Side B**

*Concurrent Validity of the PICCOLO and KIPS Scales*

Nicole Jordan, Slippery Rock University of Pennsylvania

#### **University Center Ballroom - Kiosk 35 Side A**

*Future-directed Positive Journaling and Subjective Well-being*

Katrina Holt, University of Memphis Lambuth

#### **University Center Ballroom - Kiosk 36 Side A**

*Modifying Attentional Bias via TDCS: A Randomized, Controlled Trial*

Kalen Koch, Elon University

#### **University Center Ballroom - Kiosk 37 Side A**

*Reliability of a Lab-Based Measure of Response Inhibition in Youth with Williams Syndrome*

Amanda Miller, University of Wisconsin - Milwaukee

#### **University Center Ballroom - Kiosk 38 Side A**

*Thought Suppression, Negative Affect, and Worry*

Marisa LaBrecque-Grenier, Eastern Connecticut State University

### **COGNITIVE NEUROSCIENCE**

#### **University Center Ballroom - Kiosk 36 Side B**

*An Electrocorticography (ECOG) Study: Theta-Gamma Coupling Between MTL and PFC Regions During Memory Encoding in Children*

Mohsyn Malik, Wayne State University

#### **University Center Ballroom - Kiosk 37 Side B**

*Predicting an Individual's Skill Acquisition from Cognitive Ability and Neural Activation*

Ariel Kalotkin, George Mason University

### **COMMUNICATIONS**

#### **University Center Ballroom - Kiosk 38 Side B**

*A Feminist Reading of Darling Magazine*

kelsie Nyhuis, Hope College

#### **University Center Ballroom - Kiosk 39 Side B**

*Learning from the Truth: Do "Truth" Campaigns Lessen College Students' Smoking Behaviors?*

Jordan Middlebrooks, Clark Atlanta University

#### **University Center Ballroom - Kiosk 40 Side B**

*The Influence of Pink Games*

Jade Potter, University of Wisconsin - Superior

### **COMPUTER SCIENCE**

#### **University Center Ballroom - Kiosk 36 Side C**

*Human-Like Problem Solving with Multicyclic Cognition*

Chandler Sears, University of Memphis

#### **University Center Ballroom - Kiosk 37 Side C**

*Data Visualization of Agent-Based Modeling of Virus Spread*

Jingyi (Kyra) Gan, Smith College

#### **University Center Ballroom - Kiosk 38 Side C**

*Improving Speech Recognition for Interviews with Both Clean and Telephone Speech*

Sung Woo Choi, Minnesota State University, Mankato

#### **University Center Ballroom - Kiosk 39 Side C**

*Segmentation of the Left Ventricle Using Isotropic 4D MRI*

Samantha Salazar, Susquehanna University

## Student Poster Session 2 - Thu 12:20pm-1:20pm

### ECOLOGY & ORGANISMAL BIOLOGY

#### University Center Ballroom - Kiosk 41 Side C

*Analysis of Coyote Activity Around Waste Disposal Site and Management Implications*  
Alexis Garretson, George Mason University

#### University Center Ballroom - Kiosk 42 Side C

*Effects of Tylosin and Tris(dichloroisopropyl)phosphate on Oxygen Consumption and Filtration Rate of Quagga Mussels (*Dreissena bugensis*)*  
Pattamestrige Perera, Wayne State University

#### University Center Ballroom - Kiosk 44 Side A

*The Impact of Induced Plant Stress on Goldenrod Galling Insect Success*  
Orvil Grunmeier III, Susquehanna University

### ECONOMICS

#### University Center Ballroom - Kiosk 1 Side B

*The Effect of the PACE Program on Health Outcomes of the Elderly in the U.S.*  
Nicole Crilley, Lafayette College

#### University Center Ballroom - Kiosk 39 Side A

*An Economic Exploration of Mining Industry of Northern Minnesota*  
Undralsaikhan Dambii, University of Wisconsin - Superior

#### University Center Ballroom - Kiosk 41 Side A

*The Effects of the 2008 Financial Crisis on Foreign Direct Investment in Sub-Saharan Africa*  
James Inlow, University of Wisconsin - River Falls

#### University Center Ballroom - Kiosk 61 Side A

*Effects of Adolescent Physical Education on Future Obesity Outcomes*  
Andrew Van Hoof, Elon University

### EDUCATION

#### University Center Ballroom - Kiosk 41 Side B

*Analysis of Multiple Modes of Contact with an Undergraduate Teaching Assistant*  
Madeline Haftel, Ithaca College

### University Center Ballroom - Kiosk 44 Side C

*The Crystal Ball: Predictors of A Successful Teacher Candidate*  
Anne Neumann, Hope College

### ELECTRICAL ENGINEERING

#### University Center Ballroom - Kiosk 18 Side A

*Fresnel Lens Concentration For First Generation Photo Voltaic Cells*  
Bennett Street, Western Carolina University

#### University Center Ballroom - Kiosk 18 Side B

*Performance Analysis of a Hybrid Particle Swarm Optimization Algorithm for Maximum Power Point Tracking of Solar Photovoltaic Systems*  
Nicholas Foster, Kennesaw State University

### ENGINEERING/ENGINEERING TECHNOLOGY

#### University Center Ballroom - Kiosk 16 Side B

*A Smart Parking System*  
Enaho Atamenwan, Midwestern State University

#### University Center Ballroom - Kiosk 16 Side C

*Noise Monitoring Using Wireless Sensor Nodes*  
Courtney Myers, Hope College

### ENGLISH

#### University Center Ballroom - Kiosk 42 Side A

*Enlightenment Through Darkness: Use of the Paranormal in Dickens' Writings*  
Erika Shearer, University of Wisconsin - Superior

### ENVIRONMENTAL STUDIES & SCIENCES

#### University Center Ballroom - Kiosk 43 Side A

*Effect of Coal Particle Size on Microbial Methanogenesis in the Presence of Oxygen*  
Rita Park, Montana State University Bozeman

### EXPERIMENTAL PSYCHOLOGY

#### University Center Ballroom - Kiosk 44 Side B

*A Clear Self-View: Self-Concept Clarity and Well-Being in Blind and Sighted Individuals*  
Jessica Markey, Elmhurst College

## Student Poster Session 2 - Thu 12:20pm-1:20pm

### **University Center Ballroom - Kiosk 45 Side B**

*Can Learning to Care for Animals Improve Self Esteem and Empathy? Assessing the Effectiveness of a Summer Camp at the Animal Rescue League of Iowa*  
Eduardo Martinez-Ibanez, Dominican University of California

### **University Center Ballroom - Kiosk 46 Side B**

*Delay Discounting and Young Adult Opiate Misuse*  
Lauren Brownstein, University of Memphis

### **University Center Ballroom - Kiosk 47 Side B**

*Effects of Pet Ownership on Empathy*  
Andrew Riesenber, University of Nebraska at Kearney

### **University Center Ballroom - Kiosk 48 Side B**

*How Is Probability Interpreted? Individual Differences in Perception of Likelihood Estimates*  
Joshua Vincent, Westmoreland County Community College

### **University Center Ballroom - Kiosk 49 Side B**

*Matrix Training: Considerations for Recombinative Generalization and Efficiency of Acquisition*  
Gabriella Van Den Elzen, University of Wisconsin - Milwaukee

### **University Center Ballroom - Kiosk 50 Side B**

*Personality and Charitable Giving*  
Shannon Maio, Salisbury University

### **University Center Ballroom - Kiosk 51 Side B**

*Reporting Mechanisms on Video Game Consoles: Player Behaviors and Reporting*  
Calypso-Jade Kneller, University of North Georgia

### **University Center Ballroom - Kiosk 53 Side B**

*The Mindful Link: Meditation, Yoga and Music*  
Sarah Farnett, State University of New York-Brockport

## **GEOGRAPHY & EARTH SCIENCES**

### **University Center Ballroom - Kiosk 45 Side A**

*A Tale of Two Watersheds: Mapping Farmer Networks*  
Gunther Melander, University of Wisconsin - Stout

### **University Center Ballroom - Kiosk 47 Side A**

*Dissolved Organic Matter Structure Quality Across a Gradient of North Temperate Lakes*  
Meredith Kadjeski, Wells College

### **University Center Ballroom - Kiosk 49 Side A**

*New People, New Problems: The Social, Health, and Environmental Degradation of the Lower Class*  
Elisabeth Urbaez, University of West Florida

### **University Center Ballroom - Kiosk 50 Side A**

*Take Back the Tap: Stop Paying for Overpriced Bottled Water*  
Annie Savage, Arkansas State University

### **University Center Ballroom - Kiosk 51 Side A**

*Unsafe Pedestrian Behaviors: A Comparative Analysis Between Elementary and Middle School Students*  
Emilio Navarrete, Embry - Riddle Aeronautical University

## **HEALTH SCIENCES**

### **University Center Ballroom - Kiosk 40 Side A**

*The Influence of Cognition in Implicit Motor Sequence Learning in Persons with Stroke*  
Shantae George, University of Utah

### **University Center Ballroom - Kiosk 55 Side A**

*Treatment of Osteomyelitis Using Locally Administered Vancomycin in an In-vivo Rat Model*  
Caroline Wang, University of Utah

### **University Center Ballroom - Kiosk 61 Side B**

*Improving Women's Reproductive Health Via Cereal Bars*  
Penelope Ponthieu, University of Memphis

## **HISTORY**

### **University Center Ballroom - Kiosk 40 Side C**

*Digital Holland*  
Elizabeth Ensink, Hope College

## **INDUSTRIAL/SYSTEMS ENGINEERING**

### **University Center Ballroom - Kiosk 17 Side B**

*Wireless Network Jamming Using Directional Antennas*  
Ryan Stallcup, Mississippi State University

## Student Poster Session 2 - Thu 12:20pm-1:20pm

### KINESIOLOGY & EXERCISE SCIENCE

#### University Center Ballroom - Kiosk 3 Side A

*The Effect of Hydration Status on King-Devick Concussion Assessment and Symptom Scores in Healthy Collegiate Athletes*

Lydia Stiving, University of Wisconsin - Eau Claire

#### University Center Ballroom - Kiosk 57 Side A

*The Effects of Stable vs. Unstable Core Training on Balance and Fall Risk in Apparently Healthy Middle-Aged and Older Adults*

Kayla Meixner, University of Wisconsin - Eau Claire

#### University Center Ballroom - Kiosk 58 Side A

*Impact of Physical Activity and Sugar Sweetened Beverage Consumption on Arterial Stiffness*

Randi Snopkowski, State University of New York-Brockport

#### University Center Ballroom - Kiosk 59 Side A

*The Effect of Back Squat and Leg Press On Anaerobic Power*

Rachel Mazzola, Gustavus Adolphus College

### LINGUISTICS

#### University Center Ballroom - Kiosk 62 Side B

*Argentinians' Perceptions of Spanish Dialects*

Kaitlyn Matrassi, Ithaca College

### MARKETING

#### University Center Ballroom - Kiosk 15 Side C

*Appeals & Spiels: A Comparative Analysis on Alcohol Advertising in the U.S. and Ireland*

Amina Gibic, Lamar University

### MATHEMATICS

#### University Center Ballroom - Kiosk 56 Side A

*Forecasting Blooms and Mathematically Modeling Chlorophyll Concentration*

Mackenzie Jones, University of Akron

### MECHANICAL ENGINEERING

#### University Center Ballroom - Kiosk 52 Side A

*Auto Piloting a Drone Using Computer Vision*

Don Wijesinghe, Midwestern State University

### University Center Ballroom - Kiosk 53 Side A

*Effects of Interlayers on Effective Moduli and Interfacial Stress Transfers of Graphene-polymer Nanocomposites*

Tyler Stoffel, University of Kentucky

### University Center Ballroom - Kiosk 54 Side A

*Minimizing Hemolysis in Ventricular Assist Devices*

Mohamat Eirban Ali Bin Kaja Najumudeen, University of Central Oklahoma

### University Center Ballroom - Kiosk 60 Side A

*Self Healing Nanoparticles*

Caulin Nelson-Angelsea, University of Rochester

### MICROBIOLOGY & IMMUNOLOGY

#### University Center Ballroom - Kiosk 32 Side A

*Arginine Methylation of TbLpn and Its Role in Phospholipid Biosynthesis in Trypanosoma brucei*

Evan Spencer, State University of New York-Brockport

### University Center Ballroom - Kiosk 33 Side A

*Identification of RyhB-like Genes in Rhizobium leguminosarum ATCC 14479*

Hannah Newman, East Tennessee State University

### University Center Ballroom - Kiosk 34 Side A

*Regulation of vttRa in V. cholerae*

Yash Patel, University of Rochester

### MUSIC

#### University Center Ballroom - Kiosk 1 Side C

*A History and Analysis of Olivier Messiaen's Quatuor Pour La Fin Du Temps*

Theresa Santos, Adelphi University

### NURSING

#### University Center Ballroom - Kiosk 54 Side B

*A Homey Assisted Living Community: Perspectives of the Staff and Residents*

Morgan Kleppe, Indiana University

## Student Poster Session 2 - Thu 12:20pm-1:20pm

### **University Center Ballroom - Kiosk 55 Side B**

*Critical Appraisal of Interactive Voice Response to Improve Acute Coronary Care Management*  
Jan Mitchell, University of Memphis

### **University Center Ballroom - Kiosk 56 Side B**

*How Can the Use of Chlorhexidine Decrease the Incidence of Ventilator-associated Pneumonia (VAP)?*  
Julie Herr, Duquesne University

### **University Center Ballroom - Kiosk 57 Side B**

*Opinions of Electronic Cigarette Use in the United States: An Analysis of Twitter Data*  
Victoria Lomax, Indiana University Purdue University Indianapolis

### **University Center Ballroom - Kiosk 58 Side B**

*Relationship Between Psychosocial Factors and Their Influence on the Intention to Breastfeed During Pregnancy*  
Taylor Lewis, University of Kentucky

## **NUTRITION**

### **University Center Ballroom - Kiosk 34 Side B**

*Higher Unsaturated Fatty Acid Intake and Aerobic Training Are Related to Lower Intramyocellular Lipid in Older Adults*  
Hillary McLean, University of Kentucky

## **PHYSICS**

### **University Center Ballroom - Kiosk 31 Side C**

*Kinetic Energy Functional of an N Particle System*  
Adrian Halarewicz, Loyola University Maryland

### **University Center Ballroom - Kiosk 32 Side C**

*Characterization of Electroactive Polymer Langmuir Films*  
Evan Folk, University of Nebraska at Kearney

### **University Center Ballroom - Kiosk 33 Side C**

*Exotic States in Simulations of Colossal Magnetoresistive Oxides*  
Emily Ochoa, Lamar University

### **University Center Ballroom - Kiosk 34 Side C**

*Measuring Variations of the Speed of Sound in a Corrugated Tube*  
Olivia Byrd, University of North Carolina - Asheville

### **University Center Ballroom - Kiosk 35 Side C**

*Using Multiscale Simulations to Quantify Fundamental Mechanisms Behind Ion-Induced Nanopatterning on GaSb Surfaces*  
Michael Toriyama, University of Illinois at Urbana Champaign

## **PHYSIOLOGY**

### **University Center Ballroom - Kiosk 31 Side A**

*Prenatal Androgen Exposure in Adult Female Wistar Rats*  
Nadeen Sarsour, University of Toledo

## **POLITICAL SCIENCE**

### **University Center Ballroom - Kiosk 28 Side A**

*"Security Differential" Between Races Within Income Brackets: Perceptions of Police*  
Danielle Sindelar, American University

### **University Center Ballroom - Kiosk 30 Side A**

*The Rules Change the Game: Delegate Allocation Variations and Primary Season Length*  
Paul Oshinski, University of Georgia

## **PUBLIC HEALTH**

### **University Center Ballroom - Kiosk 27 Side C**

*Assessing Intervention Effectiveness in Walworth County's Health and Human Services*  
Alissa Zawacki, University of Wisconsin - Whitewater

### **University Center Ballroom - Kiosk 29 Side C**

*Integrating Public Health and Emergency Preparedness*  
Sydney Walcott, Radford University

### **University Center Ballroom - Kiosk 30 Side C**

*Structural Quality of Healthcare Facilities in India*  
Bianca Armenta, University of Utah

## Student Poster Session 3 - Thu 1:40pm-2:40pm

### SOCIAL WORK

#### **University Center Ballroom - Kiosk 25 Side C**

*"NO 1 LIKES U": Possible Predictors of Cyberbullying*  
Dana Sauro, Loyola University Maryland

### SOCIOLOGY

#### **University Center Ballroom - Kiosk 22 Side C**

*Barriers and Concerns Related to Health Disparities in the African American Community in Utah*  
Madelaine Tesori, Weber State University

#### **University Center Ballroom - Kiosk 23 Side C**

*Homelessness in the Valley*  
Termaine Turner, University of Nevada Las Vegas

#### **University Center Ballroom - Kiosk 24 Side C**

*The Asexual Experience and Community in Denmark*  
Christine Otto, University of Rochester

### WOMEN, GENDER, AND SEXUALITY STUDIES

#### **University Center Ballroom - Kiosk 20 Side C**

*Campus Climate for LGBTIQ Students*  
Tatiana Smithson, Kennesaw State University

#### **University Center Ballroom - Kiosk 21 Side C**

*Self-Esteem and Subjective Happiness of Male and Female Japanese: The Mediator Role of Horizontal Individualistic Orientation*  
Ayana Maezumi, Musashino University

### Student Poster Session 3 -

#### **Thu 1:40pm-2:40pm**

### ANTHROPOLOGY

#### **University Center Ballroom - Kiosk 2 Side B**

*Veni, Vidi, Vici? Roman Agrarianism and the Transition Between Republic and Empire*  
Ryan Leckel, University of Wisconsin - Stout

### ARCHITECTURE & INTERIOR DESIGN

#### **University Center Ballroom - Kiosk 2 Side C**

*Disintegrating Brick in West Philadelphia: Preservation & Hydroponic Food Growth*  
Kiera Townsend, Drexel University

### ART HISTORY

#### **University Center Ballroom - Kiosk 1 Side A**

*A Comparative Study of the Dragon as a Symbol of Authority in Qing Dynasty, China and Early 15th Century Italy*  
Jennifer Clark, University of Central Oklahoma

#### **University Center Ballroom - Kiosk 1 Side B**

*Language of Dance: Chokwe Society and German Expressionists*  
Blair Summers, University of Central Oklahoma

### ASTRONOMY

#### **University Center Ballroom - Kiosk 3 Side B**

*Homogeneous Estimates of Physical Parameters of Galactic Open Clusters Based on Stromgren and Vilnius Photometries*  
David Morser, University of Wisconsin - Oshkosh

### BEHAVIORAL NEUROSCIENCE

#### **University Center Ballroom - Kiosk 4 Side A**

*Development of a Novel Operant Behavior Testing Chamber Using a Touchscreen and an Arduino*  
Emily Ferguson, University of Mary Washington

#### **University Center Ballroom - Kiosk 4 Side B**

*Hatching Snapping Turtle Phototaxis Depends on Irradiance and Wavelength*  
Theodore Deitz, St. Olaf College

## Student Poster Session 3 - Thu 1:40pm-2:40pm

### **University Center Ballroom - Kiosk 4 Side C**

*Operant Training Paradigm for Rodents Performing an Active Auditory Oddball Task*  
Hunter Nolen, University of Memphis

### **University Center Ballroom - Kiosk 5 Side A**

*The Impact of Acute Stress on Cognitive Bias in Rats*  
Olivia Souder, Susquehanna University

### **BIOCHEMISTRY**

#### **University Center Ballroom - Kiosk 5 Side B**

*Biophysical Characterization of a G-Quadruplex Structure in Pre-miR-125b-2*  
John Roth, Duquesne University

#### **University Center Ballroom - Kiosk 6 Side B**

*Lipid Unsaturation Effects on Activation Energy for Water Permeability Across Droplet Bilayers: Role of Cholesterol*  
Michael Morales, Iona College

#### **University Center Ballroom - Kiosk 6 Side C**

*Quinolone-Topoisomerase Interactions and Resistance: Does the Water-Metal Ion Bridge Play a Role in *Escherichia coli* gyrase?*  
Hannah Carter, University of Evansville

#### **University Center Ballroom - Kiosk 7 Side A**

*Sucrose Metabolism in Kombucha Tea*  
Patrick Cheek, Indiana State University

#### **University Center Ballroom - Kiosk 7 Side B**

*Understanding the Role of BCL-2 Proteins in Hyperglycemia-induced Apoptosis in Cardiomyocytes*  
Stefanie Miller, Elon University

### **BIOLOGICAL ENGINEERING**

#### **University Center Ballroom - Kiosk 7 Side C**

*Engineering Bacteria to Produce Natural Scents from Chemical Wastes*  
Brandon Wilbanks, University of Tennessee at Knoxville

### **BIOLOGY**

#### **University Center Ballroom - Kiosk 8 Side A**

*A Metagenomic Approach to Study the Microbial Population of Jamaica Bay and the Impact of Nearby CSO Discharges in the Microbial Community.*  
Tanjila Sharif, City University of New York- York College

#### **University Center Ballroom - Kiosk 8 Side B**

*Analysis of Amygdala Morphology and Neurogenesis in Green Anole Lizard in Breeding Versus Non-breeding Season*  
Jaden Roddick, Minnesota State University, Mankato

#### **University Center Ballroom - Kiosk 8 Side C**

*Azteca trigona Influence Species Distribution and Ant Behavior in a Lowland Tropical Forest*  
Kate Henderson, Villanova University

#### **University Center Ballroom - Kiosk 9 Side A**

*Cancellous Bone Strength and Stiffness in Health and Osteoporosis, as 3D Printed Models*  
Margaret Black, Winthrop University

#### **University Center Ballroom - Kiosk 9 Side B**

*Comparison of DX613 Copper Sulfate Acidifier Footbath to a 5% Copper Sulfate Footbath for Prevention of Digital Dermatitis Lesions in Dairy Cattle*  
Haley Reichenbach, University of Kentucky

#### **University Center Ballroom - Kiosk 10 Side A**

*Effects of Electrolyzed Water on Digital Dermatitis in a Footbath Solution*  
Hannah Himmelmann, University of Kentucky

#### **University Center Ballroom - Kiosk 10 Side B**

*European Honeybee (*Apis mellifera*) Down-Regulates the Glycolysis Pathway in Response to High Fructose Corn Syrup*  
Michelle Jennette, Bridgewater State University

#### **University Center Ballroom - Kiosk 10 Side C**

*First Record of *Physaloptera* Sp. in Eastern Coyotes (*Canis latrans*) from Pennsylvania, USA*  
Laura Scales, Susquehanna University

## Student Poster Session 3 - Thu 1:40pm-2:40pm

### University Center Ballroom - Kiosk 11 Side A

*Genotyping with Uniform Mutagenic Insertional Elements*  
James Whelan, Hamline University, St. Paul

### University Center Ballroom - Kiosk 11 Side B

*Identification of Cis-elements Required for the Expression of Arabidopsis InvNH1 in the Endosperm*  
Olivia Stephens, Spelman College

### University Center Ballroom - Kiosk 11 Side C

*Investigating the Role of MLK3 in Mitotic Progression of Ovarian Cancer Cells*  
Raj Thomas, University of Toledo

### University Center Ballroom - Kiosk 12 Side A

*Keratin Dose-Dependently Rescues Hypoxia-Mediated Oxidative Stress and Apoptosis in Human Cardiac Stem Cells*  
Shannon Veilleux, Western Carolina University

### University Center Ballroom - Kiosk 12 Side B

*Mitochondrial Metabolism in *D. simulans* as Observed Through the mTOR Pathway*  
Monika Mikolajczak, Adelphi University

### University Center Ballroom - Kiosk 12 Side C

*Pharmacological Identification of Cholinergic Receptor Subtypes in Modulation of *Drosophila melanogaster* Sensory-motor Circuits*  
Aya Omar, University of Kentucky

### University Center Ballroom - Kiosk 13 Side A

*Quantifying Environmental DNA of Pathogens*  
Elsa Zuniga, North Central College

### University Center Ballroom - Kiosk 13 Side B

*Surveying Bird Populations Using Point Counts in the St. John's Arboretum, Collegeville, MN*  
Brandon Franta, St. John's University

### University Center Ballroom - Kiosk 14 Side A

*The RoarPlex – a Novel Tetranucleotide Microsatellite and Sex-ID Panel That Allows for Accurate Individual Identification and Sharing of Genetic Data Across Institutions*  
Colton Ames, Duquesne University

## BIOMEDICAL ENGINEERING

### University Center Ballroom - Kiosk 14 Side B

*Alginate Coatings Applied to Silver-decorated Calcium Phosphate Nanoparticles Decrease Release of Ionic Silver*  
Chavez Nelson, University of Memphis

### University Center Ballroom - Kiosk 14 Side C

*EvoDesign++: Computational Protein Interaction Design*  
Harsha Parchani, University of Michigan

### University Center Ballroom - Kiosk 15 Side B

*Validating Laser Doppler Flowmetry for In Vivo Longitudinal Measurements of Bone Blood Perfusion*  
Elizabeth Easter, North Carolina State University

## BUSINESS/FINANCE/ACCOUNTING

### University Center Ballroom - Kiosk 19 Side B

*Gender Differences in Perceptions of Satisfaction with Public Safety at a HBCU*  
Jamesha Hosea, Clark Atlanta University

## CELL & MOLECULAR BIOLOGY

### University Center Ballroom - Kiosk 19 Side C

*An Assessment of Next-generation Sequencing on Forensic Touch DNA Samples*  
Marina Hoggan, North Carolina State University

### University Center Ballroom - Kiosk 21 Side A

*Genotype Analysis Confirms Development of Eya3 Knockout Zebrafish for Future Tumor Studies*  
David Villani, University of Wisconsin - Superior

### University Center Ballroom - Kiosk 22 Side A

*Inhibition of Adipogenesis in 3T3-L1 Cells by the Anti-inflammatory Agents 6-gingerol and Retinoic Acid*  
Andrew Muckin, Susquehanna University

### University Center Ballroom - Kiosk 23 Side A

*Promoter Mutations in Cyclin A2 Reveal Novel Functions of the Protein in Spermatogenesis*  
Manuel Torres, Ohio State University

## Student Poster Session 3 - Thu 1:40pm-2:40pm

### **University Center Ballroom - Kiosk 24 Side A**

*The Effect of Matrix Metalloproteinase Inhibition on Intracellular Signaling in Adipogenic Differentiation of 3T3-L1 Cells*

Emily Leboffe, Susquehanna University

### **University Center Ballroom - Kiosk 25 Side A**

*Voltage-Gated Calcium Channel Auxiliary Subunits*  
Reagan Foster, Kennesaw State University

## **CELLULAR NEUROSCIENCE**

### **University Center Ballroom - Kiosk 26 Side A**

*Effects of NMDAR Chimeric GluN2 Subunit Expression on the Postnatal Development of Hippocampal Dendritic Morphology*

Carey Hung, George Mason University

### **University Center Ballroom - Kiosk 27 Side A**

*Novel Preclinical Model of Late Onset Parkinson's Disease*  
Sidhanth Chandra, University of Alabama at Birmingham

## **CHEMICAL ENGINEERING**

### **University Center Ballroom - Kiosk 16 Side A**

*Computer Modeling of Novel Materials for Energy Applications*  
Alan Fong, University of Michigan

## **CHEMISTRY**

### **University Center Ballroom - Kiosk 20 Side B**

*A Series of Cross-Photodimerization Reactions Utilizing Polyfluorophenyl-Phenyl Interactions*  
Benjamin Ingenthron, Webster University

### **University Center Ballroom - Kiosk 21 Side B**

*Carbon Dioxide Sequestration: Computational Analysis of Several Amino Acid Salts*  
Kathleen Parker, Elmhurst College

### **University Center Ballroom - Kiosk 22 Side B**

*Development of Oxygen-Mediated Cross-Couplings of Silicon and Boron Compounds*  
Chance Lindsey, Arkansas State University

### **University Center Ballroom - Kiosk 23 Side B**

*Examining the Implications of the Flint Water Crisis: Current & New Methods for Determining Lead Risk in North Carolina*

Megan Woody, University of North Carolina, Charlotte

### **University Center Ballroom - Kiosk 24 Side B**

*Indirect Determination of Enzyme Kinetics Using Capillary Electrophoresis with Chemiluminescence Detection*

Blake Seaton, Appalachian State University

### **University Center Ballroom - Kiosk 25 Side B**

*Monitoring Graphene Oxide Reduction Using a Green Reducing Agent*  
Madisen Hyatt, St. Catherine University

### **University Center Ballroom - Kiosk 26 Side B**

*Probing Single-Molecule Surface-Enhanced Raman Spectroscopy Fluctuations*  
Sierra Lambeth, Albright College

### **University Center Ballroom - Kiosk 27 Side B**

*Solvent-free Synthesis of Curcuminoids: A Greener Approach to Valuable Biological Targets*  
Jenna Sullivan, University of Wisconsin - La Crosse

### **University Center Ballroom - Kiosk 28 Side B**

*Synthesis and Biological Evaluation of Inhibitors of KasA Identified Through Virtual Screening: A Novel Inhibitor of Mycobacterium Tuberculosis*  
Grace Henry, University of Mary Washington

### **University Center Ballroom - Kiosk 29 Side B**

*Synthesis of Phosphate Analogues of 2-ketoglutarate*  
Brena Thompson, Eastern Washington University

### **University Center Ballroom - Kiosk 30 Side B**

*The Relationship of Sequence and Activity in a Series of Short  $\beta$ -Sheet Peptides with Antimicrobial Activity*  
Samantha Kennelly, Hamline University

### **University Center Ballroom - Kiosk 31 Side B**

*When Push Comes To Shove: Limitations of Hydrogen Bonded Liquid Crystal/Inhibitor Networks*  
Charles Lindberg, University of Wisconsin - Eau Claire

## Student Poster Session 3 - Thu 1:40pm-2:40pm

### CIVIL ENGINEERING

#### **University Center Ballroom - Kiosk 17 Side B**

*Assessment of Transportation Performance Savings Using 3D Printing Technology for Pharmaceutical Products*

Sukanya Dasgupta, University of Memphis

### CLINICAL PSYCHOLOGY

#### **University Center Ballroom - Kiosk 18 Side C**

*Prevalence of Non-Suicidal Self-Injury on YouTube: A Content and Comment Analysis*

Nathan Lowry, Iona College

#### **University Center Ballroom - Kiosk 32 Side B**

*A Comparison Between Brazilians and Americans on Self-Regulation and Coping*

Fernando Krause, Adelphi University

#### **University Center Ballroom - Kiosk 33 Side B**

*Conscientiousness and Impulsivity Relation to Discounting Tasks*

Alexandra Steel, Eastern Connecticut State University

#### **University Center Ballroom - Kiosk 35 Side A**

*Help Me, Help You: A Study of Undergraduate Help-seeking Behavior in Response to Unwanted Sexual Experiences*

Maggie Hakas, Elon University

#### **University Center Ballroom - Kiosk 36 Side A**

*Narcissism and Social Media*

Jennifer Rice, University of Memphis Lambuth

#### **University Center Ballroom - Kiosk 37 Side A**

*Sex Bias in Personality Disorders*

Jenisa Caban, Adelphi University

### COGNITIVE NEUROSCIENCE

#### **University Center Ballroom - Kiosk 36 Side B**

*Assessing Fear Responses with Event-Related Potential and Reaction Time in a Go-NoGo Task*

Taylor Simmons, Bethel College

#### **University Center Ballroom - Kiosk 37 Side B**

*Projections from the Temporal Cortex to the Basal Nucleus of the Amygdala in the Macaque*

Ashley Bui, University of Rochester

### COMMUNICATIONS

#### **University Center Ballroom - Kiosk 39 Side B**

*Media Games: The Non-Athletic Framing of the 2016 Summer Olympic Games by the American Media*

Olivia Skatrud, Hope College

#### **University Center Ballroom - Kiosk 40 Side B**

*The Natural Hair Journey: Social Media Communities and the Promotion of Natural Hair Acceptance Among Black, Female College Students*

Cameron Jackson, Elon University

### COMPUTER SCIENCE

#### **University Center Ballroom - Kiosk 36 Side C**

*"Calculating Pearson Correlations Between Barometric Pressure and Rainfall Levels Affecting the Continental United States Using Structured Query Language."*

William Spaid III, University of West Florida

#### **University Center Ballroom - Kiosk 38 Side C**

*Indoor 3D Reconstruction by Using Point Clouds*

*Collected from Google Project Tango Device*

Yihe Chen, Susquehanna University

#### **University Center Ballroom - Kiosk 39 Side C**

*Sentiment Detection In Video*

Justin Ramirez, California State University- Bakersfield

### ECOLOGY & ORGANISMAL BIOLOGY

#### **University Center Ballroom - Kiosk 41 Side C**

*Assessing Productivity in Prairie Biomass Feedstocks with Different Levels of Diversity*

Alyssa Williams, University of Northern Iowa

#### **University Center Ballroom - Kiosk 42 Side C**

*Environmental Variability Regulates Riverine Dragonfly (Odonata) Emergence from Wisconsin Rivers*

Danielle Tesar, University of Wisconsin - Parkside

#### **University Center Ballroom - Kiosk 43 Side C**

*Octopamine Effects on Wolf Spider Courtship and Mating Interactions: More Sex or More Cannibalism?*

Alyssa Coleman, Susquehanna University

## Student Poster Session 3 - Thu 1:40pm-2:40pm

### **University Center Ballroom - Kiosk 44 Side A**

*The Use of a Pond as Environmental Enrichment for Captive Sandhill Cranes*  
Margaret Dempsey, University of Tennessee at Chattanooga

### **ECONOMICS**

#### **University Center Ballroom - Kiosk 39 Side A**

*Analysis of Modifications to the Student Success Project*  
Jesse Eklund, University of Minnesota - Morris

#### **University Center Ballroom - Kiosk 41 Side A**

*The Influence of Religion on Male and Female Educational Attainment*  
Corey Smith, Eastern Washington University

#### **University Center Ballroom - Kiosk 61 Side A**

*Financial Well-Being and Happiness: A Comparison of German and US Economics University Students*  
Stephanie Drefahl, University of Wisconsin - La Crosse

### **EDUCATION**

#### **University Center Ballroom - Kiosk 42 Side B**

*Factors Affecting the Rate of Sexual Assault on U.S. College Campuses*  
Catherine York, Middle Tennessee State University

#### **University Center Ballroom - Kiosk 44 Side C**

*The Effect of Motivation Theory and STEM Activities on Students' Perceived Roles in Their Communities*  
Katherine Waller, North Carolina State University

### **ELECTRICAL ENGINEERING**

#### **University Center Ballroom - Kiosk 17 Side C**

*Addressing World Food Shortage Through Vertical Farming and Efficient Microgrid Design*  
Devesh Mohan, Iowa State University

#### **University Center Ballroom - Kiosk 18 Side A**

*Green Communications: A Cognitive Radio Network Approach*  
Carrie Smith, Seattle University

#### **University Center Ballroom - Kiosk 18 Side B**

*Power Output of Flexible Solar Panel*  
Bryson Shannon, Western Carolina University

### **ENGINEERING/ENGINEERING TECHNOLOGY**

#### **University Center Ballroom - Kiosk 16 Side B**

*American Sign Language (ASL) Static Gesture Recognition Using Leap Motion Technology*  
Taylor Andrews, Western Carolina University

### **ENVIRONMENTAL ENGINEERING**

#### **University Center Ballroom - Kiosk 17 Side A**

*Developing a Competitive Recovery and Regeneration Method for a Novel Adsorbent*  
Alexander Cleaveland, University of Wisconsin - Milwaukee

### **ENVIRONMENTAL STUDIES & SCIENCES**

#### **University Center Ballroom - Kiosk 43 Side A**

*Factors Influencing the Regeneration of Eastern Hemlock (*Tsuga Canadensis*) at UNDERC East in Northern Wisconsin*  
Delaney Martin, California University of Pennsylvania

### **EXPERIMENTAL PSYCHOLOGY**

#### **University Center Ballroom - Kiosk 44 Side B**

*A New Rehabilitation Method for Stroke Rehabilitation: A Comparative Study Between the Pasta Matrix Reaching Task and the Novel Reaching Task*  
Shannon Maloney, Illinois Wesleyan University

#### **University Center Ballroom - Kiosk 45 Side B**

*Charitable Giving as a Measure of Attitudes Towards Addiction and Mental Illness*  
Katherine Burt, Siena College

#### **University Center Ballroom - Kiosk 46 Side B**

*Determining Chocolate Chip Cookie Preference in Young Adults*  
Geneva Jump, Dominican University of California

#### **University Center Ballroom - Kiosk 47 Side B**

*Effects of Relational and Item-Specific Encoding on False Memories Within Collaborative Groups*  
Amber Shields, University of North Georgia

#### **University Center Ballroom - Kiosk 48 Side B**

*Human-Canine Interactions: The Impact of Breed, Training, and Socialization on Canine Response to Emotional Cues of Their Owners and Strangers*  
Brianna Artz, George Mason University

## Student Poster Session 3 - Thu 1:40pm-2:40pm

### University Center Ballroom - Kiosk 49 Side B

*Media And Racial Stereotypes*  
Ashley Blakemore, University of Memphis Lambuth

### University Center Ballroom - Kiosk 51 Side B

*Self-Distancing Promotes Rational Thought in Women: A Time and Effort Experiment*  
Brendan Whitney, University of Michigan

### University Center Ballroom - Kiosk 52 Side B

*The Effect of Encoding Modality and Rehearsal Strategy on Foreign Language Vocabulary Recall*  
Danielle Bestfelt, Bellarmine University

### University Center Ballroom - Kiosk 53 Side B

*The Moderating Effect of Gender on Attraction Type and Intimacy in Adolescent Relationships*  
Andrew Smith, Slippery Rock University of Pennsylvania

## GEOGRAPHY & EARTH SCIENCES

### University Center Ballroom - Kiosk 45 Side A

*Algae to Fuel: Initiating a Green Fuel Project to Create Coal from Local Marine Algae*  
Shawnee Doling-Tye, University of West Florida

### University Center Ballroom - Kiosk 46 Side A

*Climate Change and Extreme Precipitation: Understanding Community Perceptions*  
Gabrielle Sherrer, Spelman College

### University Center Ballroom - Kiosk 47 Side A

*Distribution of Forest Fungi at Green Wing Environmental Laboratory*  
DeAnna Bender, Augustana College

### University Center Ballroom - Kiosk 48 Side A

*Impacts of Hurricanes on Flood Non-Stationarity*  
Jade Bowles, Spelman College

### University Center Ballroom - Kiosk 50 Side A

*The Construction and Production of a Operational and Reliable Marine Sciences Sensor Array (MSSA) Based on Open Source Hardware*  
Kirsten Ayres, University of West Florida

### University Center Ballroom - Kiosk 51 Side A

*Utilizing NASA Earth Observations to Detect Changes in Annual Snowpack Coverage in Intermountain National Parks*  
Brooke Colley, The University of Virginia's College at Wise

## HEALTH SCIENCES

### University Center Ballroom - Kiosk 9 Side C

*Diagnosis and Alternative Treatments for Recurrent Bacterial Vaginosis*  
Gurveer Gill, Wayne State University

### University Center Ballroom - Kiosk 40 Side A

*The Implications of the Female Athlete Triad on the Development of Second Metatarsal Stress Fractures in Professional Classical Ballet Dancers*  
Shira Lanyi, Virginia Commonwealth University

### University Center Ballroom - Kiosk 55 Side A

*Time Spent with Animals and Well-Being*  
Amber Love, University of Memphis Lambuth

### University Center Ballroom - Kiosk 59 Side B

*Association Between Hormonal Contraceptives and Depression in College-Aged Females*  
Maggie Anderson, Dominican University of California

### University Center Ballroom - Kiosk 60 Side B

*Evaluation of the Effectiveness of Peripheral Vascular Disease Screening in Kidney Transplant Candidates*  
Ivy Ochieng, University of Michigan

### University Center Ballroom - Kiosk 61 Side B

*Knowledge of the Triple Aim Among Health Profession Students and Its Perceived Relevance to Their Professional Practice*  
Cassie Prather, Eastern Washington University

## HISTORY

### University Center Ballroom - Kiosk 40 Side C

*Gender Equality in China*  
Vicky Zhao, Adelphi University

## Student Poster Session 3 - Thu 1:40pm-2:40pm

### INTERNATIONAL STUDIES

#### University Center Ballroom - Kiosk 3 Side A

*The Impact of Regional Integration in Nigeria and Ghana*

Selena Batchily, George Mason University

### KINESIOLOGY & EXERCISE SCIENCE

#### University Center Ballroom - Kiosk 57 Side A

*Comparison of Heart Rate Response, Rate of Perceived Exertion, and Psychological Attitude During Land- vs. Water-Based Exercise Among Collegiate Club Sport Athletes*

Sara Schmitz, University of Wisconsin - Eau Claire

#### University Center Ballroom - Kiosk 58 Side A

*Impact of Sit to Stand Workstations Use on Optimism: A Pilot Study*

Catherine Patrick, University of Central Oklahoma

#### University Center Ballroom - Kiosk 59 Side A

*The Effect of One 50-Minute Yoga Session on Blood Pressure and Flexibly Among College Students*

Riley Viner, Gustavus Adolphus College

### MARKETING

#### University Center Ballroom - Kiosk 15 Side C

*Increasing Donations from a Younger Generation: A Marketing Campaign for MADD*

Taylor Morris-Bates, Salisbury University

### MATHEMATICS

#### University Center Ballroom - Kiosk 56 Side A

*Learning to Use Appropriate Tools Strategically for Bivariate Data Analysis*

Matthew Jones, Salisbury University

### MECHANICAL ENGINEERING

#### University Center Ballroom - Kiosk 52 Side A

*Bicycle Brake Using Magnetorheological (MR) Fluid*

Richard Lavallee, Western Carolina University

#### University Center Ballroom - Kiosk 53 Side A

*Engine Oil Wear*

Tate Harris, Utah Valley University

### UNIVERSITY CENTER BALLROOM - KIOSK 60 SIDE A

*Sodium and Chloride Ions Concentration Mapping in Saltwater*

Suman Bhandari, Midwestern State University

### MICROBIOLOGY & IMMUNOLOGY

#### University Center Ballroom - Kiosk 32 Side A

*Bacteriophage Interactions in the University of Wisconsin Biogester*

Jordan Black, University of Wisconsin - Oshkosh

#### University Center Ballroom - Kiosk 33 Side A

*Induction of Anergy Is Differentially Regulated by CD28 and NKG2D Costimulation in Murine CD8 T Cells.*

Zachary Fasana, Longwood University

#### University Center Ballroom - Kiosk 34 Side A

*Rescue of *Caenorhabditis elegans* Daf-16 with BrugiamMalayi Daf-16*

Colin Nelson, University of Wisconsin - Whitewater

### MUSIC

#### University Center Ballroom - Kiosk 1 Side C

*Composing Castles: Case Study of Visual Prompts on Young Students' Compositions*

Michelle Curtis, University of Wisconsin - Whitewater

### NURSING

#### University Center Ballroom - Kiosk 55 Side B

*Diffuse Intrinsic Pontine Glioma (DIPG); A Qualitative Study*

Amy Deaner, Austin PEAY State University

#### University Center Ballroom - Kiosk 58 Side B

*Successful Transitions or Opportunities for Improved Care*

Lauren Jupina, Texas Christian University

### NUTRITION

#### University Center Ballroom - Kiosk 34 Side B

*S.N.A.P. Out of It! The Nutritional Efficacy of the Supplemental Nutrition Assistance Program*

Bobby McCabe, American University

## Student Poster Session 3 - Thu 1:40pm-2:40pm

### PHILOSOPHY & ETHICS

#### University Center Ballroom - Kiosk 35 Side B

*Contextualizing Hardin and Singer's Arguments: A Hunger Relief Analysis*  
Braxton Fonner, Lone Star College System The Honors College

### PHYSICS

#### University Center Ballroom - Kiosk 31 Side C

*Visualizing the Inspiral of Unaligned Black Hole Binary Systems*  
Karl Osterbauer, University of Minnesota, Duluth

#### University Center Ballroom - Kiosk 32 Side C

*Characterizing Liquid Argon Time Projection Chambers for Neutrino Physics*  
Samuel Borer, University of Maine

#### University Center Ballroom - Kiosk 33 Side C

*Exploring Flourenert's Potential as a Cryogenic Agent for Cryobiology*  
Nicholas Bray, Eastern Washington University

#### University Center Ballroom - Kiosk 34 Side C

*Nanoparticle Enhanced Laser Induced Breakdown Spectroscopy (NELIBS) Investigations of Calcium Carbonate Structures*  
James Amos, University of West Florida

#### University Center Ballroom - Kiosk 35 Side C

*UV Plasmonics of Graphene on an Aluminum Hole Array*  
Carly Mathewson, Ohio Northern University

### PHYSIOLOGY

#### University Center Ballroom - Kiosk 31 Side A

*Renal Denervation Reduces Neuronal Activity Markers in the Brain Stem of Normal Rats but Not Salt-sensitive Hypertensive Rats on High Salt Diets*  
Amanda Feagans, University of Evansville

### POLITICAL SCIENCE

#### University Center Ballroom - Kiosk 29 Side A

*Of, By and For The People, Not Donors*  
Matthew Cude, Utah State University

### University Center Ballroom - Kiosk 30 Side A

*Understanding Political Trauma and How It Can Shape Terrorism*  
Katherine Huffman Huffman, University of Kentucky

### PUBLIC HEALTH

#### University Center Ballroom - Kiosk 28 Side C

*General Aviation Hypoxia and Reporting Statistics*  
Claire Schindler, Embry - Riddle Aeronautical University

#### University Center Ballroom - Kiosk 29 Side C

*Investigating Contributing Factors to Chronic Homelessness in Hennepin County, MN*  
Allison Trezona, St. Olaf College

### SOCIAL WORK

#### University Center Ballroom - Kiosk 25 Side C

*Atlanta's Immigrant Crossroads: Factors Making Immigrant Integration Difficult and How to Help*  
Kayland Arrington, Kennesaw State University

#### University Center Ballroom - Kiosk 26 Side C

*What Are a Criminal Offenders Obstacles to Success*  
Billy Johnson, Westmoreland County Community College

### SOCIOLOGY

#### University Center Ballroom - Kiosk 22 Side C

*Body-Worn Cameras for Police Officers and the Security vs. Privacy Issue*  
Casey Morrison, Southern New Hampshire University

#### University Center Ballroom - Kiosk 24 Side C

*The Elusive Essential Quality: An Examination of Resilience and Its Contributing Factors Among Children Experiencing Poverty in the Midwest*  
Emma Wingert, John Brown University

### WOMEN, GENDER, AND SEXUALITY STUDIES

#### University Center Ballroom - Kiosk 20 Side C

*Campus Survival: An Examination of Sexual Assault Services on Single-Sex Campuses*  
Breanna Hiner, University of Nebraska at Kearney

#### University Center Ballroom - Kiosk 21 Side C

*Self-Perceptions, Perceived Perception of Others, and Self-Esteem*  
Kaylen Hendrix, University of Memphis Lambuth

## Student Poster Session 4 - Thu 3:00pm-4:00pm

### Student Poster Session 4 - Thu 3:00pm-4:00pm

#### ANTHROPOLOGY

##### University Center Ballroom - Kiosk 2 Side A

*Forensic Anthropology vs. Bioarchaeology*  
Kylene Radulovich, University of Wisconsin - Milwaukee

#### ARCHEOLOGY

##### University Center Ballroom - Kiosk 2 Side B

*A Search for Significance: Spatial Analysis of Demographic and Health Markers in Tirup Cemetery*  
Grace Morgan, George Mason University

#### ARCHITECTURE & INTERIOR DESIGN

##### University Center Ballroom - Kiosk 2 Side C

*Making the Invisible, Visible*  
Katrina Alano, Kennesaw State University

#### ART HISTORY

##### University Center Ballroom - Kiosk 1 Side A

*A Woman's Choice or Oppression: The Veiling in Yemen and Revealing Fashion in the U.S.*  
Kristen Martin, University of Central Oklahoma

##### University Center Ballroom - Kiosk 1 Side B

*Looking Up: Discovering the Characters, Chronology, and Complexities of Baroque Italian Ceiling Art*  
Ellee Banaszak, Hope College

#### ASTRONOMY

##### University Center Ballroom - Kiosk 3 Side B

*Numerical Simulations of the Interaction Between Planets and Protoplanetary Disks*  
Wendell Roberson, College of Charleston

#### BEHAVIORAL NEUROSCIENCE

##### University Center Ballroom - Kiosk 3 Side C

*An Experimental Analysis of Verbal Behavior: Effects of Auditory Stimuli on the Accuracy and Latency to Respond in a Mental Math Task*  
Leah Bohl, University of Wisconsin - Milwaukee

#### University Center Ballroom - Kiosk 4 Side A

*Effect Of Strength Training On Neuropathic Pain And Afferent Sprouting After Cervical Spinal Cord Injury*  
Alessandra Tamashiro Orrego, Drexel University

#### University Center Ballroom - Kiosk 4 Side C

*Oxytocin's Effect on Rodent Impulsivity*  
Danyelle Roan, Miami University

#### University Center Ballroom - Kiosk 5 Side A

*The Nuclei That Bind II: Further Exploration into the Role of the Endopiriform Nucleus and the Claustrum in the Processing of Taste Information*  
Victoria Riera, Stetson University

#### BIOCHEMISTRY

##### University Center Ballroom - Kiosk 5 Side B

*Biophysical Characterization of Drosha mRNA Binding to FMRP RGG Box Domain*  
Keefe McDougal, Duquesne University

#### University Center Ballroom - Kiosk 6 Side A

*Functional Role of a Distant Flexible Region of *E. coli* Prolyl-tRNA Synthetase in Catalysis*  
AN HODAC, University of Wisconsin - Eau Claire

#### University Center Ballroom - Kiosk 6 Side B

*Mitochondria-targeted Catalase Primes Adipocyte Differentiation Through Regulation of Pref-1*  
Kendall Tavares, Appalachian State University

#### University Center Ballroom - Kiosk 7 Side A

*Synthesis of a Novel Acetylcholinesterase Inhibitor for the Treatment of Alzheimer's Disease*  
Andrew Denning, Georgia College and State University

#### BIOLOGICAL ENGINEERING

##### University Center Ballroom - Kiosk 7 Side C

*Engineering Collagen Fibril Microstructure and Tuning ECM Stiffness to Study Migration Strategies of Cancer Cells in 3D Microenvironments*  
Raymond Chin, University of Rochester

## Student Poster Session 4 - Thu 3:00pm-4:00pm

### BIOLOGY

#### **University Center Ballroom - Kiosk 8 Side A**

*A Preliminary Analysis of the Effects of Dominance on Ring-tailed Lemurs (*Lemur catta*): Responses to Novel Objects*

Megha Ganatra, North Carolina State University

#### **University Center Ballroom - Kiosk 8 Side C**

*Behavioral Analysis of Galapagos Grapsus grapsus in Response to Daily Tidal Conditions*

Melanie Thares, College of Saint Benedict/ St. John's University

#### **University Center Ballroom - Kiosk 9 Side A**

*Cannabidiol Mitigates the Effects of Chronic Beta-Amyloid Administration in Adult Mice*

Adam Tran, Saint Vincent College

#### **University Center Ballroom - Kiosk 9 Side B**

*Comparison of Pointed RNAi Knockdown Phenotypes and the Quantification of Resulting mRNA Levels*

Joneisha Moore, Susquehanna University

#### **University Center Ballroom - Kiosk 9 Side C**

*Distribution of Antibiotic Resistance Genes in Soil Bacterial Communities Residing in the Centralia, PA Mine Fire Area*

Brooke Grill, Susquehanna University

#### **University Center Ballroom - Kiosk 10 Side A**

*Effects of Exogenous  $\beta$ -alanine on Primary Root Growth, Potassium Accumulation and Polyamine Biosynthesis in *Arabidopsis Thaliana**

Thomas Detchemendy, University of Tennessee at Chattanooga

#### **University Center Ballroom - Kiosk 10 Side B**

*Evidence for the Role of MARCKS and MARCKSL1 During *Coxiella burnetii* Infections*

Christa Jackson, John Brown University

#### **University Center Ballroom - Kiosk 10 Side C**

*Full-Field Optical Coherence Tomography Imaging of Skin Specimens in Mohs Surgery*

Shreya Dundumalla, Drexel University

### **University Center Ballroom - Kiosk 11 Side A**

*Geographic Distribution of Nuclear and Mitochondrial Genetic Patterns in Pocket Gophers at a Subspecies-hybrid Zone in New Mexico*

Jill Hill, University of Northern Iowa

### **University Center Ballroom - Kiosk 11 Side B**

*Inactivation of Disease-Causing Nonresistant and Antibiotic-resistant *Trichomonas vaginalis* Strains by Food-Compatible Plant Extracts*

Sabrina Noritake, University of the Pacific

### **University Center Ballroom - Kiosk 11 Side C**

*Investigating the Role of MRP4 in Dark Adaptive Processes*

David Salazar Jr., Texas State University - San Marcos

### **University Center Ballroom - Kiosk 12 Side B**

*Modeling Relationships Among Growth, Nitrate Uptake and Nitrate Reductase Activity in Phytoplankton from a Freshwater Urban Pond and Lake Michigan*

Ursula Sicking, University of Wisconsin - Milwaukee

### **University Center Ballroom - Kiosk 13 Side A**

*Quantifying Lens Crystallin in Various Species of Teleost Fish*

Sarah Pace, Westminster College

### **University Center Ballroom - Kiosk 13 Side B**

*Temperature Effects on the Mono- and Digalactosyldiacylglycerol Lipid Composition of Chlorarachniophyte algae*

Shivan Berwari, Middle Tennessee State University

### **University Center Ballroom - Kiosk 13 Side C**

*The Effects of Carbaryl on the Protein Reelin in the Brains of Zebrafish Larvae*

Madeline Rector, Elon University

### **BIOMEDICAL ENGINEERING**

#### **University Center Ballroom - Kiosk 14 Side B**

*Application of Tactile Feedback and Integration into the Da Vinci Surgical Machine: Novel Proposal for Mitral Valve Replacement Postoperative Complication Reduction*

Bhargav Sathish, Virginia Commonwealth University

## Student Poster Session 4 - Thu 3:00pm-4:00pm

### **University Center Ballroom - Kiosk 14 Side C**

*High Functioning, Low Cost, 3D Printed Prosthetics*  
Andrew Rhodes, Presbyterian College

### **University Center Ballroom - Kiosk 15 Side A**

*Pancreatic Islet Encapsulation with a Peptide Amphiphile Nanomatrix Gel for Pancreatic Islet Transplantation*  
Jacob Garcia, University of Alabama at Birmingham

### **University Center Ballroom - Kiosk 15 Side B**

*Variation of Hydrogels for Use in the 3D Bioprinting of Artificial Organs and Tissues*  
Hannah Peters, Virginia Commonwealth University

### **BUSINESS/FINANCE/ACCOUNTING**

#### **University Center Ballroom - Kiosk 19 Side B**

*Informed But Overconfident? The Impact of Forecast Preparation on Trading Behaviors*  
Trang Le, Augustana College

### **CELL & MOLECULAR BIOLOGY**

#### **University Center Ballroom - Kiosk 19 Side C**

*Analysis of Migration in Phenylalanine Treated Cells*  
Gabriel Rucci, University of Central Oklahoma

#### **University Center Ballroom - Kiosk 19 Side A**

*Methionine Sulfoxide Reductase Expression in Response to Anoxic Stress Conditions in *D. Melanogaster**  
Evgeniya Rakitina, Florida Atlantic University

#### **University Center Ballroom - Kiosk 20 Side A**

*Effects of YAK1 and YPL247c on Energy Storage in *Saccharomyces Cerevisiae**  
Alison Schneider, North Central College

#### **University Center Ballroom - Kiosk 21 Side A**

*High-Throughput, Fluorescent Analysis of Reactive Oxygen Species in *C. elegans* After Knockdown of Mrck-1*  
Callista Brown, Salisbury University

#### **University Center Ballroom - Kiosk 22 Side A**

*Interaction Between the Yeast Gene, YDR132C, and Human P53 in Transgenic Strains Exposed to Caffeine and Aspirin*  
Arianna Medina, Dominican College

### **University Center Ballroom - Kiosk 23 Side A**

*Reactive Oxygen Species, P53 and Caspase Activation of Apoptosis in SUM 159 Breast Cancer Cells*  
Rilda Duron, Talladega College

### **University Center Ballroom - Kiosk 24 Side A**

*The Effect of Nicotine on Ovarian Cancer Cells*  
Jay Kumar, University of Toledo

### **University Center Ballroom - Kiosk 25 Side A**

*Voltage-Gated Sodium Channel Auxiliary Subunits*  
Kimberly Meyberg, Kennesaw State University

### **CELLULAR NEUROSCIENCE**

#### **University Center Ballroom - Kiosk 26 Side A**

*Examination of Microglial Morphology in a Mouse Model of Acute Ethanol Intoxication*  
Lauren Cram, Susquehanna University

#### **University Center Ballroom - Kiosk 27 Side A**

*Polycomb Group Protein EZH2 Interacts With The Promoter Region of Sodium Channel Gene Scn1a*  
Bria Harris, Lipscomb University

### **CHEMICAL ENGINEERING**

#### **University Center Ballroom - Kiosk 16 Side A**

*Diffusion Layer Saturation Analysis of PEM Fuel Cells*  
Erica Eggleton, Montana State University Bozeman

### **CHEMISTRY**

#### **University Center Ballroom - Kiosk 3 Side A**

*An Investigation of the Chemical and Optical Properties of Aerosols in the Southeastern U.S.*  
Natalie Smith, Appalachian State University

#### **University Center Ballroom - Kiosk 18 Side C**

*Effects of Ions on Water Transport of Biomimetic Membrane: Theory and Experiment*  
Brona O'Sullivan, Iona College

#### **University Center Ballroom - Kiosk 20 Side B**

*A Statistical and Spatial Analysis of Chemical Contaminants in Cocos Lagoon, Guam*  
Char'Mane Robinson, California State University Monterey Bay

## Student Poster Session 4 - Thu 3:00pm-4:00pm

### **University Center Ballroom - Kiosk 21 Side B**

*Characterization of Salt Tolerant Accessions Within a Rice Diversity Panel Using Phenomic Approaches*  
Kendl Fischer, Arkansas State University

### **University Center Ballroom - Kiosk 22 Side B**

*Dielectrophoresis (DEP) at Mobile Bipolar Electrodes (BPEs)*  
Zihan Yang, Iowa State University

### **University Center Ballroom - Kiosk 23 Side B**

*Examining the Use of Copper Catalysis in Photoredox Reactions*  
Cheyloh Bluemel, Black Hills State University

### **University Center Ballroom - Kiosk 24 Side B**

*Influence of Hyperconjugative and Inductive Effects on the Acidity of Carboxylic Acids*  
Rebecca Rudisell, Indiana State University

### **University Center Ballroom - Kiosk 25 Side B**

*Negishi Coupling Reactions of Oxazolidinone-protected Amino Acids*  
Seth Springer, University of Nebraska at Kearney

### **University Center Ballroom - Kiosk 27 Side B**

*Spectroscopic Investigation of Copper Chloride Complexation in Subtractive Copper Etching for IC Packaging Application*  
Casey Love, Southeastern Oklahoma State University

### **University Center Ballroom - Kiosk 28 Side B**

*Synthesis and Characterization of a Series of First Row Transition Metal Ammine Complexes: An Undergraduate Laboratory Experiment*  
Devon Mobley, Georgia College and State University

### **University Center Ballroom - Kiosk 29 Side B**

*Synthesis of Quinone Methide Precursors as Acetylcholinesterase Reactivators*  
Sydney Sillart, Ohio State University

### **University Center Ballroom - Kiosk 30 Side B**

*The Study of Ligand Binding Events with the Use of Fluorescence Anisotropy*  
Caroline Donaghy, Appalachian State University

## **CIVIL ENGINEERING**

### **University Center Ballroom - Kiosk 17 Side B**

*Comparitive Analysis of Condition Ratings for North Carolina Highways*  
Danielle Troutman, North Carolina State University

## **CLINICAL PSYCHOLOGY**

### **University Center Ballroom - Kiosk 32 Side B**

*A Relational Perspective on Disordered Eating: Maladaptive Attachment Predicts Tendencies for Unhealthy Eating Attitudes*  
Liana Cho, Point Loma Nazarene University

### **University Center Ballroom - Kiosk 33 Side B**

*Consumer Health Knowledge: Does It Affect Quality of Life?*  
Tina Beahm, Adelphi University

### **University Center Ballroom - Kiosk 35 Side A**

*How Do Parent and Peer Relations Impact Attitudes Towards Heroin Use?*  
Maria Lusso, Moravian College

### **University Center Ballroom - Kiosk 36 Side A**

*Music and Emotion*  
Theresa Santos, Adelphi University

### **University Center Ballroom - Kiosk 37 Side A**

*Social Media Takeover: Exploring the Role of Attachment*  
Molly Moeller, University of Nebraska at Kearney

### **University Center Ballroom - Kiosk 38 Side A**

*What Do Adolescent Parents Need to Prevent Subsequent Teen Pregnancy? a Qualitative Inquiry into the Perspectives of South Carolina Service Providers*  
Echo Buffalo, College of Charleston

## **COGNITIVE NEUROSCIENCE**

### **University Center Ballroom - Kiosk 36 Side B**

*Cell Death in the Hippocampus of Pigeons: A Window to Understanding Alzheimers*  
Natasha Flesher, Bowling Green State University

## Student Poster Session 4 - Thu 3:00pm-4:00pm

### COMMUNICATIONS

#### **University Center Ballroom - Kiosk 40 Side B**

*The Relationship Between Reality TV Viewers' Beliefs and Confidence in Gender Equality*  
Tyler Williams, Clark Atlanta University

### COMPUTER SCIENCE

#### **University Center Ballroom - Kiosk 37 Side C**

*Designing a Multi-User Virtual Environment to Facilitate Spanish Speaking Skills*  
Mya Edwards, Spelman College

#### **University Center Ballroom - Kiosk 38 Side C**

*Intelligent and Efficient Triaging Application for Emergency Patients*  
Rocky Giwa, Fisk University

### ECOLOGY & ORGANISMAL BIOLOGY

#### **University Center Ballroom - Kiosk 41 Side C**

*Assessment of American Eel, *Anguilla rostrata* (LeSueur), Population Characteristics in the Roanoke River, North Carolina, Above and Below a Migration Barrier*  
Carl Hintz, North Carolina State University

#### **University Center Ballroom - Kiosk 42 Side C**

*Evaluating the Effectiveness of Behavior Monitoring Applications in the Red Panda*  
Ashley Fortner, George Mason University

#### **University Center Ballroom - Kiosk 43 Side C**

*Sea vs Tree: Comparing Walking and Climbing Between Intertidal and Tree Crabs*  
Anya Byrd, University of Maryland, Baltimore County

#### **University Center Ballroom - Kiosk 44 Side A**

*Thiamine Concentrations in Prey Fishes from Lake Ontario*  
Nicholas Farese, State University of New York-Brockport

### ECONOMICS

#### **University Center Ballroom - Kiosk 39 Side A**

*Analyzing the Stated and Revealed Preferences of Water Quality*  
Erin Melly, Columbia University

### University Center Ballroom - Kiosk 61 Side A

*Graduation Rates at Colleges and Universities in the Midwest*  
Megan Seidman, North Central College

### EDUCATION

#### **University Center Ballroom - Kiosk 5 Side C**

*Using Project Based Learning to Teach Shaker History*  
Delia Ernst, Siena College

#### **University Center Ballroom - Kiosk 41 Side B**

*Assessing Statistical Differences of Pedagogical Methods*  
Cody O'Brien, Slippery Rock University

#### **University Center Ballroom - Kiosk 42 Side B**

*Focusing on Ability, Not the Disability*  
Katelynn Malecha, Minnesota State University, Mankato

#### **University Center Ballroom - Kiosk 43 Side B**

*Moving Onward: Successful Transition to Adulthood for Students with Disabilities*  
Bethany Vaughan, Hope College

#### **University Center Ballroom - Kiosk 44 Side C**

*The Effects of Academic Discrimination on Adolescent Women on Academic Performance and Attitudes in the STEM Fields*  
DeAnna Duffy, University of Kentucky

### ELECTRICAL ENGINEERING

#### **University Center Ballroom - Kiosk 17 Side C**

*Charging Handheld Electronic Devices with Harvested Thermoelectric Energy*  
Michelle Tablizo, Eastern Washington University

#### **University Center Ballroom - Kiosk 18 Side B**

*Robot for Automated Benthic Survey Of *Pterois volitans* Infestation*  
Tristen Harris, Lamar University

## Student Poster Session 4 - Thu 3:00pm-4:00pm

### ENGINEERING/ENGINEERING TECHNOLOGY

#### University Center Ballroom - Kiosk 16 Side B

*Applications of Linear LED Lighting Systems for Airport Taxiway Centerline Turnoffs*  
Wilson Flores, Ohio State University

#### University Center Ballroom - Kiosk 16 Side C

*Reclaiming Ambient Energy for Portable Electronics: Reverse Electrowetting Energy Harvesting*  
Hanan Hsain, North Carolina State University

### ENGLISH

#### University Center Ballroom - Kiosk 42 Side A

*Flowers in the Attic: Looking at Use of Color Language in Literature*  
Bambi Shore, University of Wisconsin - La Crosse

### ENVIRONMENTAL ENGINEERING

#### University Center Ballroom - Kiosk 17 Side A

*Electric Fish Floating Recording Device*  
Bhavin Gandhi, University of Michigan

### ENVIRONMENTAL STUDIES & SCIENCES

#### University Center Ballroom - Kiosk 43 Side A

*Gastropod Fauna of the River North Esk and River South Esk, Dalkeith Country Park, Midlothian, Scotland*  
Lindsey Walker, University of Wisconsin - Whitewater

### EXPERIMENTAL PSYCHOLOGY

#### University Center Ballroom - Kiosk 44 Side B

*Academic Major and Gender Associations with Sleepiness in College Students*  
Bailey Christoforatos, The University of Virginia's College at Wise

#### University Center Ballroom - Kiosk 47 Side B

*Estimating the Prevalence of Homeless and Precariously Housed College Students.*  
Michael Williams, Wayne State University

#### University Center Ballroom - Kiosk 48 Side B

*Impact of Gender and Age on Perceived Competency of Defense Attorneys*  
Ashley Machamer, Susquehanna University

#### University Center Ballroom - Kiosk 49 Side B

*Mother-child Attachment: Subject Pronouns in Secure and Insecure Child Narratives.*  
Jennifer Zamudio, California State University - Long Beach

#### University Center Ballroom - Kiosk 50 Side B

*Pledges or Pews?*  
Jessica Jones, Indiana State University

#### University Center Ballroom - Kiosk 51 Side B

*The Impact of Altered Emotion Due to Sleep Deprivation on Risky Driving Behavior*  
Zachary Yount, University of West Florida

#### University Center Ballroom - Kiosk 52 Side B

*The Effect of Musical Training on Working Memory*  
Rachel Dumke, Capital University

#### University Center Ballroom - Kiosk 53 Side B

*The Need for TLC (Tender Loving Cellphone)*  
Dora Juhasz, University of Michigan

### GEOGRAPHY & EARTH SCIENCES

#### University Center Ballroom - Kiosk 45 Side A

*An Analysis of Human Perception of Black Bears in Relation to Distribution Changes*  
Nicole Foley, Carthage College

#### University Center Ballroom - Kiosk 47 Side A

*Elevation and Mesoscale Temperature Variations*  
Nathan Crowdus, Western Kentucky University

#### University Center Ballroom - Kiosk 48 Side A

*Increasing the Accuracy of Common Buckthorn (*Rhamnus cathartica*) and Glossy Buckthorn (*Rhamnus frangula*) Detection Efforts in Minnesota Using a Habitat Suitability Model*  
Peter Whitman, Carthage College

#### University Center Ballroom - Kiosk 49 Side A

*Ocean – Atmosphere Influences on U.S. Tornado Variability*  
Tyler Mitchell, University of West Florida

## Student Poster Session 4 - Thu 3:00pm-4:00pm

### **University Center Ballroom - Kiosk 50 Side A**

*The Effect of the Introduction of the Emerald Ash Borer on Woodpecker Population Dynamics in the Eastern United States*

Marissa Hoffman, Stevenson University

### **University Center Ballroom - Kiosk 51 Side A**

*Water Quality Assessment of Deer Lakes County Park Before and After Unconventional Shale Gas Drilling*

Daniel Robinson, Duquesne University

### **GRAPHIC DESIGN**

#### **University Center Ballroom - Kiosk 35 Side C**

*Pellet Fed 3D Printer*

Zachary Machado, University of West Florida

### **HEALTH SCIENCES**

#### **University Center Ballroom - Kiosk 40 Side A**

*The Impact of Psychological Factors on Clinician-Versus Patient Perceptions of Function Among Individuals with Lumbar Spine Impairment Receiving Outpatient Rehabilitation*

Madeline Tetzke, University of Wisconsin - Milwaukee

#### **University Center Ballroom - Kiosk 59 Side B**

*Balance Testing for Normally Aging Adults and People with Diabetic Peripheral Neuropathy Who Use Multifocal Eyeglasses*

Stephanie Paly, University of Wisconsin - Milwaukee

#### **University Center Ballroom - Kiosk 60 Side B**

*Exercise Induced Blood Flow Patterns Changes Based on Exercise Intensity*

Robert Pawlak, Indiana State University

### **HISTORY**

#### **University Center Ballroom - Kiosk 40 Side C**

*Hammurabi of Babylon's Kingship, Conquest, and Legal Code*

Patrick Gaughan, Westminster College

### **KINESIOLOGY & EXERCISE SCIENCE**

#### **University Center Ballroom - Kiosk 57 Side A**

*Differences in Body Consciousness and Social Physique Anxiety Between Female Hockey Players, Swimmers, And Actresses*

Ivy Hickerson, Gustavus Adolphus College

### **University Center Ballroom - Kiosk 58 Side A**

*Increasing Temperature Increases Ligament Laxity in the Ankle Joint*

Stacey Chen, University of Evansville

### **University Center Ballroom - Kiosk 59 Side A**

*The Effects of 8 Weeks of Bio-active Peptide Supplementation on Training Adaptations in Recreational Male Weight Lifters*

Pedro Zavala, University of Wisconsin - La Crosse

### **LINGUISTICS**

#### **University Center Ballroom - Kiosk 62 Side B**

*Contextual Factors in Child Adjective Comprehension*

Wesley Orth, University of Rochester

### **MARKETING**

#### **University Center Ballroom - Kiosk 15 Side C**

*Moving Billboards: Marketing in the Realm of NASCAR*

Jonathan Jenkins, Wingate University

### **MECHANICAL ENGINEERING**

#### **University Center Ballroom - Kiosk 52 Side A**

*Bypass Nozzle for Modulating Residential Oil Burner*

Winston Jackson, Alabama A & M University

#### **University Center Ballroom - Kiosk 53 Side A**

*Ganging Enzyme-Coated Microelectrode Sites Produces Greater Sensitivity to an Analyte in a Biosensor*

Daniel Ma, University of Kentucky

#### **University Center Ballroom - Kiosk 54 Side A**

*Modeling of Dispersion of Particles on Liquid Surface Using MATLAB*

Nicholas Allicock, Kennesaw State University

#### **University Center Ballroom - Kiosk 60 Side A**

*Supercapacitors from Recycled Industrial Mill Scale Waste*

Nasim Abedelwahab, Lamar University

## Student Poster Session 4 - Thu 3:00pm-4:00pm

### MICROBIOLOGY & IMMUNOLOGY

#### University Center Ballroom - Kiosk 32 Side A

*Calcium Binding in the EF-Hand Protein, EfhP, Regulating Calcium-Dependent Virulence in Pseudomonas Aeruginosa*

Rendi Rogers, Oklahoma State University

#### University Center Ballroom - Kiosk 34 Side A

*Resistance-based Detection Kit for Pseudomonas Aeruginosa Strains*

Sameer Shaikh, Florida International University

### MUSIC

#### University Center Ballroom - Kiosk 1 Side C

*For Whom Do We Sing: Cataloguing and Analyzing the Medieval Antiphonaries of Vendôme, France*

Jonathan Bading, Hope College

### NURSING

#### University Center Ballroom - Kiosk 54 Side B

*Analysis of Tweet Links Associated with Electronic Cigarettes*

Jessica Bauer, Indiana University Purdue University Indianapolis

#### University Center Ballroom - Kiosk 55 Side B

*Does the Use of BIS Reduce Respiratory Complications and Unwanted Early Emergence from Sedation in an Adult ICU Population Requiring Sedation: An Integrative Research Review*

Edward Kemei, Lubbock Christian University

#### University Center Ballroom - Kiosk 56 Side B

*Impact of Global Travel on Nursing Students*

Abby McAnany, Baylor University

#### University Center Ballroom - Kiosk 58 Side B

*The Effect of Medication, Diet, and Exercise Adherence on Quality of Life in Adult Patients with Type Two Diabetes*

Daniel Deane, The University of Virginia's College at Wise

### NUTRITION

#### University Center Ballroom - Kiosk 34 Side B

*SEH Deficiency and Proteinuria*

Tory Frankel, University of Tennessee at Knoxville

### PHILOSOPHY & ETHICS

#### University Center Ballroom - Kiosk 35 Side B

*Essentialism and the Disordered Mind: A Critical Examination of a Theory of Mental Illness*

Vishnu Tiwari, City University of New York- Brooklyn College

### PHYSICS

#### University Center Ballroom - Kiosk 31 Side C

*A Study of Photocatalytic Properties on Thin Layers of Rutile and Anatase TiO<sub>2</sub> Nanoparticles*

Christian Ozburn, University of West Georgia

#### University Center Ballroom - Kiosk 32 Side C

*Chua's Circuit: Analyzing the Power Fluctuations in a Non-equilibrium Chaotic System*

Chris Carlson, George Mason University

#### University Center Ballroom - Kiosk 33 Side C

*Fluorescence of Pd-doped Ti:CMAS Glass and Glass-ceramics*

Laura Nichols, Austin PEAY State University

#### University Center Ballroom - Kiosk 34 Side C

*P-n Junction Diodes Fabricated Using Poly(3-hexylthiophene-2,5-diyl) (P3HT) Thin Films and Nanofibers*

Shamir Maldonado-Rivera, University of Puerto Rico at Humacao

### POLITICAL SCIENCE

#### University Center Ballroom - Kiosk 28 Side A

*An Examination of the Impact of Historical Government Development on the Rise of the European Welfare State*

Matthew Rishell, Susquehanna University

## Student Poster Session 5 - Fri 9:00am-10:00am

### PUBLIC HEALTH

#### University Center Ballroom - Kiosk 27 Side C

*Clinton Global Initiative University: Lavatory Initiative*  
Ananya Bandyopadhyay, University of Alabama at Birmingham

#### University Center Ballroom - Kiosk 28 Side C

*Health Behaviors in College Students*  
Sharonjeet Kaur, Kennesaw State University

#### University Center Ballroom - Kiosk 29 Side C

*Lifestyle Issues Related to Diabetes and Cardiovascular Disease Among Refugees in Utah*  
Kai Sin, University of Utah

### SOCIAL WORK

#### University Center Ballroom - Kiosk 25 Side C

*Children of War: Mental Health Interventions with Syrian Refugees*  
Amanda Sloan, California University of Pennsylvania

### SOCIOLOGY

#### University Center Ballroom - Kiosk 22 Side C

*Conflict Strategies in the Parent-Adult Child Tie: Generation Differences and Implications for Well-being*  
Olga Van Bolt, University of Michigan

#### University Center Ballroom - Kiosk 24 Side C

*The Sexual Objectification of Women in Hip Hop and the Effects on Identity*  
Mark Pettit, University of North Alabama

### WOMEN, GENDER, AND SEXUALITY STUDIES

#### University Center Ballroom - Kiosk 20 Side C

*Rioting Gender in Post-Soviet Russia: The Implications of Political and Doctrinal Rhetoric on Human Rights*  
Kaitlyn Clem, Duquesne University

#### University Center Ballroom - Kiosk 21 Side C

*Simple Volunteers or Dignified Workers? : Women's Roles in the War on Poverty and Community Action Programs*  
Kara Gustaveson, Elon University

### Student Poster Session 5 - Fri 9:00am-10:00am

### ANTHROPOLOGY

#### University Center Ballroom - Kiosk 2 Side A

*Geophysical Investigations at the Heritage Valley Mound Site (13AM129) in Allamakee County, Iowa*  
Marshall Stay, Luther College

### ARCHEOLOGY

#### University Center Ballroom - Kiosk 2 Side B

*Defining the "Everyday": 19th Century Slave Life in Western Tennessee*  
Claire Norton, Rhodes College

### ARCHITECTURE & INTERIOR DESIGN

#### University Center Ballroom - Kiosk 2 Side C

*Public Obligation of Art: A Comparison of Architectural Preservation and the Ownership of Art*  
Jenna Harbert, Oklahoma State University

### ART HISTORY

#### University Center Ballroom - Kiosk 1 Side A

*An Artist Who Painted the Wartime Sky*  
Beth Anderson, University of Central Oklahoma

#### University Center Ballroom - Kiosk 1 Side B

*Nergal vs. Osiris- the Gods of Death in Ancient Egypt and Mesopotamia*  
Oliver Ellington, University of Central Oklahoma

### ASTRONOMY

#### University Center Ballroom - Kiosk 3 Side B

*Phase II Expansion of the Murchison Widefield Array*  
Rusty Mundorf, University of Wisconsin - Milwaukee

### BEHAVIORAL NEUROSCIENCE

#### University Center Ballroom - Kiosk 3 Side C

*Anxiety Related Behaviors in Juvenile *T. Gondii* Infected Mice*  
Ciarra Smith, Mississippi State University Shackouls Honors College

## Student Poster Session 5 - Fri 9:00am-10:00am

### **University Center Ballroom - Kiosk 4 Side B**

*Implications of 5-HTT and DAT1 Genetic Polymorphisms on Social Anxiety and Stress Response*  
Parker Hughes, Weber State University

### **University Center Ballroom - Kiosk 4 Side C**

*Partial Reinforcement During Signaled Lever-press Avoidance Training Is Less Detrimental to Learning in Behaviorally Inhibited Wistar-Kyoto Rats Compared to Sprague Dawley Rats*  
Kelsy Nilles, Carthage College

### **University Center Ballroom - Kiosk 5 Side A**

*The Risky Allele: Associations Between a Serotonin Transporter Polymorphism, Novelty Seeking, Alcohol Use, and Drunk Driving in College Students*  
Carmen Roland, Georgia Gwinnett College

## **BIOCHEMISTRY**

### **University Center Ballroom - Kiosk 5 Side B**

*Characterization and Partial Purification of an Inhibitory Factor Secreted by *Bacillus anthracis* and *Aeromonas jandaei**  
Julia McCartney, North Central College

### **University Center Ballroom - Kiosk 5 Side C**

*Effects Of Anti-Prion Compounds On Autophagy And The Lysosome*  
Aryel Clarke, University of Rochester

### **University Center Ballroom - Kiosk 6 Side B**

*Molecular Dynamics Simulation to Investigate Stability of Amyloid-Amyloid and Amyloid-HCC Complexes in Alzheimer's Disease*  
Ermin Tale, Wagner College

### **University Center Ballroom - Kiosk 6 Side C**

*Red-Emitting Firefly Luciferases for In Vivo Imaging*  
Catherine Florentine, Connecticut College

### **University Center Ballroom - Kiosk 7 Side A**

*Synthesis of Novel Cell-Penetrating Sequences with Selective Binding to Helix 69*  
Amer Abu-kwaik, Wayne State University

### **University Center Ballroom - Kiosk 7 Side B**

*Using Cross-species Protein Hybrids to Elucidate the Role of Replication Protein A in the Development of Huntington's Disease*  
Laura Fischer, University of Iowa

## **BIOLOGY**

### **University Center Ballroom - Kiosk 8 Side A**

*A Preliminary Comparison of Morphological Features of the Extinct Giant Aye-Aye (*Daubentonia robusta*) and Extant Aye-Aye (*Daubentonia madagascariensis*)*  
Taylor Nguyen, North Carolina State University

### **University Center Ballroom - Kiosk 8 Side B**

*Analysis of Gene Expression Changes in Response to Cold Stress in Maize Seedlings*  
Jia Tan, Hamline University

### **University Center Ballroom - Kiosk 8 Side C**

*Behavioral Control of Incipient Speciation in *Heliconius* Butterflies: The Role of Chemical and Visual Cues in Interspecific Mate Discrimination*  
Sylvia Durkin, Carleton College

### **University Center Ballroom - Kiosk 9 Side A**

*Case Study: Developing Primers and Sequencing Regions of HEXA Gene to Examine a Potential Misdiagnosis of Multiple Sclerosis*  
Madeline Reding, Hamline University

### **University Center Ballroom - Kiosk 9 Side B**

*Comparison of Pollinated vs. Non-pollinated *Malus Domestica* L. Apples in Orchards Within the Tropical Cloud Forest of San Gerardo De Dota, Costa Rica*  
Edgardo Luevano, Southern Nazarene University

### **University Center Ballroom - Kiosk 10 Side A**

*Effects of Oxidative Stress in Intestines of *Caenorhabditis Elegans**  
Sarah Chowdhury, Middle Tennessee State University

### **University Center Ballroom - Kiosk 10 Side B**

*Evolutionary Origin and Functional Impact of the GHR Deletion*  
Hannah Calkins, State University of New York- Buffalo

## Student Poster Session 5 - Fri 9:00am-10:00am

### University Center Ballroom - Kiosk 10 Side C

*Functional Genomics of Somatosensory Neuron Signaling And Morphology*  
Victoria Wright, Ithaca College

### University Center Ballroom - Kiosk 11 Side A

*Glucocorticoid Physiology and Trap-philia in White-crowned Sparrows*  
Elizabeth Wenker, St. Mary's College of Maryland

### University Center Ballroom - Kiosk 11 Side B

*Incorporating Magnetic Nanoparticles in Bovine Spermatozoa: Effects on Sperm Physiology and Cellular Localization*  
Joseph Mozuch, University of Wisconsin - Whitewater

### University Center Ballroom - Kiosk 11 Side C

*Investigating the Role of  $\beta$ -nac on Stress Response in *Saccharomyces cerevisiae**  
Toma Matveeva, James Madison University

### University Center Ballroom - Kiosk 12 Side A

*Long Term Exposure of Bighead (*Hypophthalmichthys nobilis*) and Silver Carp (*H. molitrix*) to Broadband Sound*  
Alayna Mackiewicz, University of Minnesota, Duluth

### University Center Ballroom - Kiosk 12 Side B

*Moose Poop as a Resource to Understand Diet*  
Lucas Fyle, College of Saint Benedict/ St. John's University

### University Center Ballroom - Kiosk 12 Side C

*Phenotypic Characterization of *Sinorhizobium Sp. HM007-10* Bacteriophage HMSP-1*  
Silvia Toledo, Hamline University, St. Paul

### University Center Ballroom - Kiosk 13 Side B

*Testing for an Association Between Wolbachia Bacterial Symbionts and Insecticide Resistance in Sand Fly Populations (Diptera: psychodidae)*  
Cody Bills, Utah State University

### University Center Ballroom - Kiosk 13 Side C

*The Effects of DIO2 and DIO3 Expression on Seasonal Reproduction in a Seasonally Breeding Animal*  
Hyejoo Kang, Minnesota State University, Mankato

### University Center Ballroom - Kiosk 14 Side A

*The Effect of Smoke Exposure on the Germination of Native Plant Species of North America*  
Ian Smith, Texas Tech University

## BIOMEDICAL ENGINEERING

### University Center Ballroom - Kiosk 14 Side B

*Assessment of the Efficacy and Ethicality of CRISPR-cas9 Germline Editing to Determine the Proper Legislative Course of Action in the United States*  
Ryan Musselman, Virginia Commonwealth University

### University Center Ballroom - Kiosk 14 Side C

*Immune Modulation of Electrospun Nanofibers Through Dendritic Cell Activation*  
Namratha Potharaj, University of Washington, Seattle

### University Center Ballroom - Kiosk 15 Side A

*Perceptual Discrimination of Temporal Duration Based on Ongoing Motor Behavior*  
Antarius Daniel, George Mason University

## BUSINESS/FINANCE/ACCOUNTING

### University Center Ballroom - Kiosk 19 Side B

*One Hundred Dollars Now or A Half Million Dollars Later?*  
Phuong Nguyen, Augustana College

## CELL & MOLECULAR BIOLOGY

### University Center Ballroom - Kiosk 19 Side C

*Beyond the ALS Ice Bucket Challenge: A Molecular Population Genomic Study of Amyotrophic Lateral Sclerosis and Frontotemporal Dementia in the Irish Population*  
Leonie Dupuis, University of West Florida

### University Center Ballroom - Kiosk 21 Side A

*Higher Binding Affinities of Daidzein to ERBa and ERBb Then to ERAlpha in Three Estrogen Receptors in Teleost Fish*  
Ruhani Agrawal, North Carolina State University

## Student Poster Session 5 - Fri 9:00am-10:00am

### **University Center Ballroom - Kiosk 22 Side A**

*Investigating the Role of Breast Tumor Kinase/protein Tyrosine Kinase 6 (Brk/PTK6) During Early Embryonic Development in Zebrafish*

Samantha Foster, University of Alabama at Birmingham

### **University Center Ballroom - Kiosk 23 Side A**

*Regulation of Anti-Müllerian Hormone (AMH) Expression During Follicular Development*

Emily Hayes, University of Rochester

## **CELLULAR NEUROSCIENCE**

### **University Center Ballroom - Kiosk 26 Side A**

*Examination of Microglial Morphology in Prefrontal Cortex in a Mouse Model of Acute Ethanol Intoxication*

Jordan Zezza, Susquehanna University

### **University Center Ballroom - Kiosk 27 Side A**

*Protein Replacement Therapy to Treat Neuronal Structural Defects Caused by Mutation of the Autism Risk Gene Pten*

vanesa Walters, Florida Atlantic University

## **CHEMICAL ENGINEERING**

### **University Center Ballroom - Kiosk 16 Side A**

*Epoxy Nanocomposites with Reduced Flammability Derived From Magnesium Hydroxide-Melamine Polyphosphate Hybrids*

Alexandra Galaska, University of Tennessee at Knoxville

## **CHEMISTRY**

### **University Center Ballroom - Kiosk 18 Side C**

*Enthalpic Effects of Chain Length and Unsaturation on Water Permeability Across Droplet Bilayers of Homologous Monoglycerides*

Maria Lopez, Iona College

### **University Center Ballroom - Kiosk 20 Side B**

*Acesulfame K in Simulated Waste Water Treatment*

brandon lengel, University of Wisconsin - Whitewater

### **University Center Ballroom - Kiosk 21 Side B**

*Cobalt-Catalyzed Hydroboration of 1,3-(E)-dienes*

Milauni Mehta, Ohio State University

### **University Center Ballroom - Kiosk 22 Side B**

*Discovery of Amino Acid Bioisosteres That Are Transported by the LAT1 Protein for Use in Drug Delivery*

Andrew Flint, University of Nebraska at Kearney

### **University Center Ballroom - Kiosk 23 Side B**

*Fabrication of Transparent Conducting Thin Films of Layer Exfoliated NaSn<sub>2</sub>As<sub>2</sub>*

Dominic Ross, Ohio State University

### **University Center Ballroom - Kiosk 24 Side B**

*Inorganic and Organometallic Palladium Complexes of Curcuminoids: Synthesis and Assessment of Potential Biological Properties*

Joshua Christensen, University of Wisconsin - La Crosse

### **University Center Ballroom - Kiosk 25 Side B**

*New Karplus Equations for Conformational Analysis of Monosaccharides and Acetylated Derivatives*

Stephen Do, University of the Pacific

### **University Center Ballroom - Kiosk 26 Side B**

*Progress Toward the Synthesis of Near-Infrared Firefly Luciferin*

Leah Salituro, Connecticut College

### **University Center Ballroom - Kiosk 27 Side B**

*Structural and Energetic Properties of Pyridine - HCl Complexes Via Computations and IR Spectroscopy*

Camilla Soares, University of Wisconsin - Eau Claire

### **University Center Ballroom - Kiosk 29 Side B**

*Synthesis of Sulfonamide Alcohol Ligands for Use as Organocatalysts in Ring Opening Polymerization Reactions*

Grant Benthin, Luther College

### **University Center Ballroom - Kiosk 30 Side B**

*The Synthesis of Biphenyl 6-Aryldibenzo[b,d]pyrrolium Salts*

Carly Goedhart, University of Wisconsin - Eau Claire

## Student Poster Session 5 - Fri 9:00am-10:00am

### CIVIL ENGINEERING

#### **University Center Ballroom - Kiosk 17 Side B**

*Dynamic Mechanical Characterization of Microscale Fibers and Thin Films*  
Darren Foster, University of Tennessee at Knoxville

### CLINICAL PSYCHOLOGY

#### **University Center Ballroom - Kiosk 32 Side B**

*A Study of Attachment and Mental Health: Mother, Father, and Sibling and Depression, Anxiety, and Distress Disclosure*  
Erin Ramsey, Southern Nazarene University

#### **University Center Ballroom - Kiosk 33 Side B**

*Defining Factors of Socioeconomic Status as It Predicts ADHD Risk*  
Erin O'Quinn, Mississippi St Univ-Shackouls Honors Col

#### **University Center Ballroom - Kiosk 35 Side A**

*In the Education Gap: The Effects of Early Childhood Education on College Students*  
Chelsey Perez, Dominican University of California

#### **University Center Ballroom - Kiosk 36 Side A**

*Parent Affect and Child Autonomic Regulation in Childhood Attention-deficit/hyperactivity Disorder (ADHD)*  
Yulie Lugo, Florida International University

#### **University Center Ballroom - Kiosk 37 Side A**

*Stressful or Traumatic Events and Self-Concept Among College Women*  
Ashley McGar, University of Kentucky

#### **University Center Ballroom - Kiosk 38 Side A**

*Youth Gang Involvement: The Impact of Depression, Anxiety, and Hostility*  
Mark Jones, Capital University

### COGNITIVE NEUROSCIENCE

#### **University Center Ballroom - Kiosk 37 Side B**

*Replay of Episodic Memories in the Rat*  
Christina Sluka, Indiana University

### COMMUNICATIONS

#### **University Center Ballroom - Kiosk 38 Side B**

*Arguing About Racism: The Problem of Essentially Contested Concepts*  
Michele Hau, Ithaca College

#### **University Center Ballroom - Kiosk 39 Side B**

*One Step Ahead*  
Cassandra Morthera, University of Minnesota - Crookston

### COMPUTER SCIENCE

#### **University Center Ballroom - Kiosk 19 Side A**

*Software for Rapid Prototyping and Simulation of Quantum Cryptographic Protocols*  
John Rocco, Iona College

#### **University Center Ballroom - Kiosk 36 Side C**

*Application of Supervised Deep Learning to Hyperspectral Bathymetry Problem with TensorFlow*  
Aviel Stein, Susquehanna University

#### **University Center Ballroom - Kiosk 38 Side C**

*Interactive Search with Probabilistic Graphical Models*  
Austin Hartline, Milwaukee School of Engineering

### ECOLOGY & ORGANISMAL BIOLOGY

#### **University Center Ballroom - Kiosk 41 Side C**

*Autecology of the Northern Water Snakes: Microhabitat Use and Habitat Associations in Southeastern Massachusetts*  
Jacqueline Toomey, Bridgewater State University

#### **University Center Ballroom - Kiosk 42 Side C**

*Examining How Landscape Permeability Affects the Movement of a Terrestrial Salamander*  
Rachel Snyder, Susquehanna University

#### **University Center Ballroom - Kiosk 43 Side C**

*Phenotypic Change in Sweetgrass(*Muhlenbergia sp.*) as a Result of Soil Composition*  
Daniel Castillo, The Citadel

## Student Poster Session 5 - Fri 9:00am-10:00am

### **University Center Ballroom - Kiosk 44 Side A**

*Transit Rate of Food in Germ-Free and Germ-Typical American Cockroaches*  
Mady Herrmann, Ohio State University

### **ECONOMICS**

#### **University Center Ballroom - Kiosk 41 Side A**

*Water Quality Policy Implications and Funding Opportunities*  
Caitlin Delaney, University of Connecticut

### **EDUCATION**

#### **University Center Ballroom - Kiosk 41 Side B**

*Child Life 901: Creating Valuable Community Contributors*  
Anna Marsh, University of Memphis

#### **University Center Ballroom - Kiosk 42 Side B**

*Franklin Delano Roosevelt's Historical Representation Within Trade Books*  
Megan Lindsay, Eastern Illinois University

#### **University Center Ballroom - Kiosk 43 Side B**

*Museum Memories: Interaction with Museum Objects Create Lasting Impressions*  
Rebeka Wermeling, North Central College

### **ELECTRICAL ENGINEERING**

#### **University Center Ballroom - Kiosk 17 Side C**

*Correlation of Myoelectric Signals with Hand Gestures*  
Kyle Johnson, Western Carolina University

#### **University Center Ballroom - Kiosk 18 Side A**

*Hardware Trojans in Autonomous Systems*  
Tracy Lin, University of Alabama at Birmingham

#### **University Center Ballroom - Kiosk 18 Side B**

*Studying Graph Traversal Performance For Node Pre-Processing Versus Runtime Node Processing*  
Asaph Matheus Barbosa, Oklahoma State University

### **ENGINEERING/ENGINEERING TECHNOLOGY**

#### **University Center Ballroom - Kiosk 16 Side B**

*Design Optimization of Disposable Coffee Cups*  
Angel Chukwu, East Carolina University

### **University Center Ballroom - Kiosk 16 Side C**

*Repeatable and Reproducible High Strain Organic Strain Sensor*  
Mohammad Abbas, University of Texas at Dallas

### **ENVIRONMENTAL ENGINEERING**

#### **University Center Ballroom - Kiosk 17 Side A**

*Iron Cross-linked Alginate Beads for Removing Phosphate from Wastewater and Storm Runoff and Their Reuse*  
Heather Yelle, North Dakota State University (Nlt)

### **ENVIRONMENTAL STUDIES & SCIENCES**

#### **University Center Ballroom - Kiosk 43 Side A**

*Identifying Heart Rate Anomalies in Deep Diving Marine Mammals*  
Michael Jeffko, United States Coast Guard Academy

### **EXPERIMENTAL PSYCHOLOGY**

#### **University Center Ballroom - Kiosk 44 Side B**

*Adolescents and Altruism*  
Sarah Pringer, Webster University

#### **University Center Ballroom - Kiosk 45 Side B**

*College Students Judgments of Professors Personalities: Do Personality Judgments Change During a Class?*  
Bryan Long, Dominican University of California

#### **University Center Ballroom - Kiosk 46 Side B**

*Do Baseline Falls Predict Motor Vehicle Collisions Over Time in Older Drivers? A Longitudinal Investigation of Falls and Collisions from the Maryland Driving Study*  
Meghana Gaini, University of Alabama at Birmingham

#### **University Center Ballroom - Kiosk 47 Side B**

*Examination of the Relationship Between Infant Neurodevelopmental Status and Parental Visitation and Involvement in a Neonatal Intensive Care Unit*  
Jessica Tucci-Herron, East Carolina University

#### **University Center Ballroom - Kiosk 48 Side B**

*Inequality in Early Social Development: The Effects of Income on Infants' Processing of Emotion in Bodies*  
Michelle Tam, University of Kentucky

## Student Poster Session 5 - Fri 9:00am-10:00am

### **University Center Ballroom - Kiosk 49 Side B**

*mPFC Inhibition and Self-Reflective Processing in an Animal Model of Depression*  
Anna Miller, University of Wisconsin - River Falls

### **University Center Ballroom - Kiosk 50 Side B**

*Predicting "Oops" Errors: Individual Differences in Cognitive Flexibility Predict Performance in a Sustained Attention to Response Task*  
Jasmine Dang, George Mason University

### **University Center Ballroom - Kiosk 51 Side B**

*Social Media and Depressive Symptomatology*  
Ned Katz, University of Kentucky

### **University Center Ballroom - Kiosk 52 Side B**

*The Effect That Personal Sharing Has on Course Evaluations*  
Monica Cardenas, Dominican University of California

### **University Center Ballroom - Kiosk 53 Side B**

*The Relationship Between Brain Structure and Educational Achievement in a Longitudinal Sample of High-risk Adults*  
Senuri Rauf, University of Minnesota, Twin Cities

## **GEOGRAPHY & EARTH SCIENCES**

### **University Center Ballroom - Kiosk 45 Side A**

*An Oligocene-Eocene Limestone in Big Bend Ranch State Park, Texas*  
Stephanie Elmore, Sul Ross State University

### **University Center Ballroom - Kiosk 46 Side A**

*Coal Ash Wastescape: Designed Remediation of Chesterfield Power Station's Coal Ash Ponds*  
Lauren Delbridge, Virginia Polytechnic Institute & State University

### **University Center Ballroom - Kiosk 47 Side A**

*Dredging Land Reclamation Causing Mucus Development in Massive Spherical Corals in the Spratly Islands, South China Sea: The Effects on China's Fishing Industry*  
Tiffany Ho, Virginia Commonwealth University

### **University Center Ballroom - Kiosk 48 Side A**

*Inferring Early Eocene Climate in the Northern Rockies from Carbon Isotopes and Iron Concentration*  
Julia Derringer, University of Michigan

### **University Center Ballroom - Kiosk 49 Side A**

*Physiographic Provinces Help Us to Predict Brook Trout Populations*  
Tia Kissinger, Susquehanna University

### **University Center Ballroom - Kiosk 50 Side A**

*The Effects of Urbanization on Nitrogen Processing in Urban Streams*  
Peter Francissen, Augustana College

### **University Center Ballroom - Kiosk 51 Side A**

*Water Quality for Human and Environmental Health in The Gambia*  
Shyleen Frost, University of Illinois at Springfield

## **GRAPHIC DESIGN**

### **University Center Ballroom - Kiosk 35 Side C**

*Teaching Design Software Efficiently*  
Meg Lybbert, Eastern Washington University

## **HEALTH SCIENCES**

### **University Center Ballroom - Kiosk 40 Side A**

*The Effect of Acute Exposure to Ambient Particulate Matter Air Pollution on Arterial Stiffness in Older Adults*  
Robert Coffman, University of Utah

### **University Center Ballroom - Kiosk 59 Side B**

*Balance Testing for Normally Aging Adults and People with Diabetic Peripheral Neuropathy Who Use Multifocal Eyeglasses*  
Judy Kattan, University of Wisconsin - Milwaukee

### **University Center Ballroom - Kiosk 60 Side B**

*Feel The Burn: Buning Mouth Syndrome*  
Donna Hartley, Westmoreland County Community College

### **University Center Ballroom - Kiosk 61 Side B**

*Maintaining the Standards of the Education of Junior Doctors*  
McKenna Reiter, Virginia Commonwealth University

## Student Poster Session 5 - Fri 9:00am-10:00am

### **HISTORY**

#### **University Center Ballroom - Kiosk 40 Side C**

*How Did the Historical and Social Changes in 20th Century Wisconsin Result in the Changing Views of the Pit Bull Terrier Breed of Dog?*

Alex Bull, University of Wisconsin - Whitewater

### **INTERDISCIPLINARY STUDIES**

#### **University Center Ballroom - Kiosk 62 Side A**

*Human Trafficking: Putting a Price Tag on Human Dignity in the Trajectory of the Early 20th Century*  
Jenny Hwang, Lone Star College System The Honors College

### **KINESIOLOGY & EXERCISE SCIENCE**

#### **University Center Ballroom - Kiosk 57 Side A**

*Drinking Away the Pain: Exploring the Relation Between Depression and Alcohol Consumption Among Men and Women*  
Isaiah Stewart, Miami University

#### **University Center Ballroom - Kiosk 58 Side A**

*Influence of Age Difference on Alcohol Use Within Couples*  
Jourdan Greenlee, Miami University

#### **University Center Ballroom - Kiosk 59 Side A**

*The Effects of a Shoulder Stretching and Strengthening Intervention on Shoulder Benchmarks and Disability in Collegiate Softball Players*  
Brianne Kimura, Florida International University

### **LAW & LEGAL STUDIES**

#### **University Center Ballroom - Kiosk 3 Side A**

*Human Rights Treaty Origins Travaux Project*  
Lena Dreves, University of Michigan

### **MANAGEMENT**

#### **University Center Ballroom - Kiosk 15 Side B**

*A Study of Selective Incivility and Perceived Norms for Respect*  
Ebony Forslund, University of Illinois at Springfield

### **MARKETING**

#### **University Center Ballroom - Kiosk 15 Side C**

*Not Every Online Review/Rating Is Created Equally... How Do Online Reviews and Ratings Affect the Firm's Reputation?*

Oanh Nguyen, University of Central Oklahoma

### **MATHEMATICS**

#### **University Center Ballroom - Kiosk 55 Side A**

*Auctions on Advertisements*  
Tykeena Watson, Fisk University

#### **University Center Ballroom - Kiosk 56 Side A**

*Mathematical Model of Alzheimer's Disease with Inhibitory Drugs*  
Richard Leonard, III, Mississippi St Univ-Shackouls Honors Col

### **MECHANICAL ENGINEERING**

#### **University Center Ballroom - Kiosk 53 Side A**

*Heat Transfer Model for Estimation of Thermal Contraction in Fused Deposition Manufactured ABS Parts*  
Mario Ng, Technological University of Panama

#### **University Center Ballroom - Kiosk 54 Side A**

*MR Fluid and the Effects of Temperature*  
James Bishop, Western Carolina University

#### **University Center Ballroom - Kiosk 60 Side A**

*The Experimental Investigation of Temperature Influence on the Oscillations of Particles on Liquid Surfaces*  
Daniel Shah, Kennesaw State University

### **MICROBIOLOGY & IMMUNOLOGY**

#### **University Center Ballroom - Kiosk 32 Side A**

*Chimeric PD1-Expressing T Cells as a Potential Treatment for Pancreatic and Kidney Cancers*  
Geoffrey Parriott, Longwood University

## Student Poster Session 5 - Fri 9:00am-10:00am

### **University Center Ballroom - Kiosk 33 Side A**

*Isolation of Potential Novel Endospore-containing Bacteria from Canada Goose Feces*  
Molly Svendsen, Oregon State University

### **University Center Ballroom - Kiosk 34 Side A**

*Reversing Chromosomal Antibiotic Resistance*  
Bethany Russell, Midwestern State University

### **MUSIC**

#### **University Center Ballroom - Kiosk 1 Side C**

*Investigating Music-Education Research in the State of Wisconsin*  
Brandon Westholm, University of Wisconsin - River Falls

### **NURSING**

#### **University Center Ballroom - Kiosk 54 Side B**

*Apathy, Sleep Disturbance, and the CLOCK Gene Among Persons with Alzheimer's Disease*  
Jamie Johnson, Hope College

#### **University Center Ballroom - Kiosk 55 Side B**

*Effective Learning Styles and Perceptions of Success in Millennials*  
Lalar Hannans, Georgia Southern University

#### **University Center Ballroom - Kiosk 56 Side B**

*Implementing Nursing Evidence into Practice: Hope and Advance Care Planning in a Rural Care Facility*  
Patricia Miller, Salisbury University

#### **University Center Ballroom - Kiosk 57 Side B**

*Perceptions and Influence of the Extended Family in Sex, Family Planning and Pregnancy Among Adolescent Latinas with Diabetes*  
Nicole Charache, University of Pittsburgh School of Nursing

#### **University Center Ballroom - Kiosk 58 Side B**

*The Effects of Aromatherapy on Nursing Students Test Anxiety*  
Emily Gustafson, Gustavus Adolphus College

### **NUTRITION**

#### **University Center Ballroom - Kiosk 34 Side B**

*The Effects of a Ketogenic Diet on Body Composition in Female Resistance Training Athletes*  
Marissa Stehly, University of Wisconsin - La Crosse

### **PHILOSOPHY & ETHICS**

#### **University Center Ballroom - Kiosk 35 Side B**

*The Holistic, Patient-focused Approach, the Needed Improvement in American Medicine.*  
Divya Dasani, Siena College

### **PHYSICS**

#### **University Center Ballroom - Kiosk 31 Side C**

*A Toxicology and Characterization Study of Microplastics*  
Amy Parker, Ithaca College

#### **University Center Ballroom - Kiosk 32 Side C**

*Continued Development of 3D Printed Physics Tactile Objects for Science Accessibility*  
Christopher Marshall, University of Wisconsin - Whitewater

#### **University Center Ballroom - Kiosk 33 Side C**

*Exploring Optimal Thermocouples for Use in Cryobiology*  
Nicholas Bray, Eastern Washington University

#### **University Center Ballroom - Kiosk 34 Side C**

*Phase Diagram of a Quantum Ising Model with Long-Range Interactions*  
David Smith, University of West Florida

### **PHYSIOLOGY**

#### **University Center Ballroom - Kiosk 30 Side A**

*Can Thermal Imaging Noninvasively Detect the Copulation Date in Captive Female 13-lined Ground Squirrels?*  
Cassandra Duncan, University of Wisconsin - Oshkosh

#### **University Center Ballroom - Kiosk 31 Side A**

*Spironolactone in Doberman Pinschers with Congestive Heart Failure Due to Dilated Cardiomyopathy*  
Andrew Laskary, University of Guelph

## Student Poster Session 5 - Fri 9:00am-10:00am

### **POLITICAL SCIENCE**

#### **University Center Ballroom - Kiosk 28 Side A**

*Communities That Vote: Can Legal Reforms and Election Administration Policies Influence Turnout in Low-income Communities?*

Isaac Leonhardi, St. Olaf College

### **PUBLIC HEALTH**

#### **University Center Ballroom - Kiosk 27 Side C**

*Cocooning as a Method to Reduce Pertussis in Infants and Young Children in Nigeria*

Annapoorani Narayanan, Virginia Commonwealth University

#### **University Center Ballroom - Kiosk 28 Side C**

*Health Disparities Among Arab Americans in Michigan: Results from the 2013 Arab Behavioral Risk Factors Survey*

Abbass Berjaoui, Wayne State University

#### **University Center Ballroom - Kiosk 29 Side C**

*Mental Health Resources for Female Veterans*

Kirstiana Brickman, Siena College

### **RELIGIOUS STUDIES**

#### **University Center Ballroom - Kiosk 26 Side C**

*Martin Luther and the Printing Press: How the Distribution of Information Affected the Reformation in Germany*

Katherine Kucko, North Central College

### **SOCIAL WORK**

#### **University Center Ballroom - Kiosk 25 Side C**

*Early Risk Behaviors as Indicators of Rural Women's High-risk Drug Use*

Martha Tillson, University of Kentucky

### **SOCIOLOGY**

#### **University Center Ballroom - Kiosk 22 Side C**

*Correlation Between the Prevalence of Type 2 Diabetes and Food Insecurity in Black Communities*

Rachel Farthing, Spelman College

### **University Center Ballroom - Kiosk 23 Side C**

*Humans of Color: Portrayals of Minorities and People of Color in Humans of New York*

Greer Meagher, Virginia Commonwealth University

### **University Center Ballroom - Kiosk 24 Side C**

*The Significance of Story*

Mallory Spangler, John Brown University

### **WOMEN, GENDER, AND SEXUALITY STUDIES**

#### **University Center Ballroom - Kiosk 20 Side C**

*Frosty Car Windows: A Microhistory of the Effects of Cold War Propaganda on the Depiction of Young American Women, Specifically LuAnne Henderson*

Alexandria Quigley, Westminster College

#### **University Center Ballroom - Kiosk 21 Side C**

*The Condition of Indigenous Women in the Andean Region*

Jaya Minhas, Albright College

### **WORLD LANGUAGES**

#### **University Center Ballroom - Kiosk 31 Side B**

*Le Commandant Chaka: A Translation and Reflection*

Emese Chmielewski, Capital University

## **Student Poster Session 6 - Fri 12:00pm-1:00pm**

### **Student Poster Session 6 - Fri 12:00pm-1:00pm**

#### **ANTHROPOLOGY**

##### **University Center Ballroom - Kiosk 2 Side A**

*Grab Her by the Pint Glass: Sex, Beer, and the Foundation of a Rape Culture*  
Amber Georgakopoulos, University of Wisconsin - Stout

#### **ARCHEOLOGY**

##### **University Center Ballroom - Kiosk 2 Side B**

*Determination of the Optimal Conservation Treatment for Waterlogged Leather and Botanical Remains*  
Sara Fordyce, University of West Florida

#### **ARCHITECTURE & INTERIOR DESIGN**

##### **University Center Ballroom - Kiosk 2 Side C**

*Retrofitting Sidewalks in Suburban Neighborhoods: Lessons from Ithaca, New York*  
Aaron Ong, Cornell University

#### **ART HISTORY**

##### **University Center Ballroom - Kiosk 1 Side A**

*Cries for Freedom: An Explanation of the Political and Artistic Statements That Personify Germany*  
Chelsea Olms, Ohio State University

##### **University Center Ballroom - Kiosk 1 Side B**

*Reviving the Lost Murals of Revolutionary Nicaragua*  
Leah Williams, Albright College

#### **ASTRONOMY**

##### **University Center Ballroom - Kiosk 3 Side A**

*Analysis of Close Binary Stars Using the Dark Energy Camera*  
Alison Crisp, Christian Brothers University

##### **University Center Ballroom - Kiosk 3 Side B**

*RR Lyrae Stars in the Globular Cluster NGC 1261*  
Adam Shelvik, University of Wisconsin - Oshkosh

#### **BEHAVIORAL NEUROSCIENCE**

##### **University Center Ballroom - Kiosk 3 Side C**

*Behavioral Action Tendencies Are Sensitive to Fear and Extinction Learning in Children*  
Aneesh Hehr, Wayne State University

##### **University Center Ballroom - Kiosk 4 Side A**

*Effects of Cerebellar Stimulation on Postural Sway*  
Abinand Rejimon, Indiana University

##### **University Center Ballroom - Kiosk 4 Side B**

*Is Marijuana Use Linked to Your Genes?*  
Zahra Ali, Georgia Gwinnett College

##### **University Center Ballroom - Kiosk 4 Side C**

*Per2 Expression Rhythms in Mice with Early Senescence and Bimodal Locomotor Rhythms*  
Mugdha Mokashi, University of Alabama at Birmingham

##### **University Center Ballroom - Kiosk 5 Side A**

*The Role of GLUA1 and GLUA3 Trafficking in the Basolateral Amygdala During Pavlovian Reward Conditioning*  
Diego Alvarado Mateo, City University of New York- York College

#### **BIOCHEMISTRY**

##### **University Center Ballroom - Kiosk 5 Side B**

*Characterization of Amino Acids Critical to Alpha-Glycerophosphate Oxidase Catalysis*  
Alma Plaza-Rodriguez, Western Carolina University

##### **University Center Ballroom - Kiosk 5 Side C**

*Effects of Cis- and Trans-unsaturated Lipids on Water Permeability and Activation Energy*  
Alessandra Armetta, Iona College

##### **University Center Ballroom - Kiosk 6 Side A**

*Hydrocarbon Intercalants in the Lipid Bilayer: Effect on Water Permeability*  
Alyssa Marie Gayapa, Iona College

##### **University Center Ballroom - Kiosk 6 Side B**

*Mutational and Biochemical Analysis of Isoprenylcysteine Carboxyl Methyltransferase*  
Sahej Bains, Purdue University Main Campus

## Student Poster Session 6 - Fri 12:00pm-1:00pm

### University Center Ballroom - Kiosk 7 Side A

*Synthesis, Characterization, and Antimicrobial Studies of Chemically Modified Textile Materials Using Zinc Oxide Nanoparticles for Potential Prevention of Healthcare-Associated Infections*

Monica Reece, Western Carolina University

### University Center Ballroom - Kiosk 7 Side B

*Virtual Drug Screening for Novel Inhibitors of D-alanine Ligase in Listeria monocytogenes*

Amy Zhou, University of Texas at Austin

### University Center Ballroom - Kiosk 12 Side A

*Finding Novel Inhibitors of 6-phosphogluconate-dehydrogenase of Leishmania Major Through Virtual Screening*

Laura Luo, University of Texas at Austin

## BIOLOGICAL ENGINEERING

### University Center Ballroom - Kiosk 7 Side C

*Proof-of-concept Study for Rapid Detection of Zika Viral RNA Via DNA Biosensor*

Haley Dylewski, University of Tennessee at Knoxville

## BIOLOGY

### University Center Ballroom - Kiosk 8 Side A

*A Study of the Antioxidant and Caffeine Content in Tea*

Amanda Ehlert, Carthage College

### University Center Ballroom - Kiosk 8 Side B

*Anthelmintic Resistance in Equine Strongylidae of Eastern Washington*

Samantha Ayotte, Eastern Washington University

### University Center Ballroom - Kiosk 8 Side C

*Behavioral Syndromes and Sex Specificity in the Siberian Dwarf Hamster*

Janelle Harter, Ithaca College

### University Center Ballroom - Kiosk 9 Side A

*Characterization of a Widely Distributed Fish Parasite Crepidostomum cooperi (Trematoda: Allocercyidae) Using Morphology and Molecular Data*

Boris Semnic, St. Norbert College

### University Center Ballroom - Kiosk 9 Side B

*Complex Effects of Cadmium Toxicity Revealed with the Fruit Fly Model*

Hannah Stratton, Kennesaw State University

### University Center Ballroom - Kiosk 9 Side C

*DNA Extraction and PCR Techniques – the Methodology Behind Studying Multiple Paternity in the Atlantic Sharpnose Shark (*Rhizoprionodon terraenovae*)*

Sarah Speed, University of West Florida

### University Center Ballroom - Kiosk 10 Side A

*Effects of PCN on Cognition and Motor Function in HAPP-Overexpressing Mice*

Yujie Ding, University of Kentucky

### University Center Ballroom - Kiosk 10 Side B

*Examining the Effects of Natural Dietary Supplements on Fat Metabolism in the Fruit Fly, *Drosophila Melanogaster**

Anne Groover, California University of Pennsylvania

### University Center Ballroom - Kiosk 10 Side C

*Functional Studies of Viral and Host Cell Factors Involved in Regulation of the Replication and Pathogenesis of Human and Animal RNA Viruses*

Bravada Hill, College of Charleston

### University Center Ballroom - Kiosk 11 Side A

*HIV Prevalence in Urban and Rural Counties in the U.S*

Nnenna Ifeanyi, Xavier University

### University Center Ballroom - Kiosk 11 Side C

*Is Regeneration of Zebrafish Tail Fins Different in a Stressful Environment?*

Heather Mason, California University of Pennsylvania

### University Center Ballroom - Kiosk 12 Side B

*Mutational Positional Effects on Root Variation in *Arabidopsis thaliana**

Quinten Meadors, College of Charleston

### University Center Ballroom - Kiosk 12 Side C

*Photobiomodulation Therapy and KCN Exposure on Cytochrome C Oxidase in *Drosophila Melanogaster* Brain*

Jedidiah Barton, Viterbo University

## **Student Poster Session 6 - Fri 12:00pm-1:00pm**

### **University Center Ballroom - Kiosk 13 Side A**

*Regulation of Cell Adhesion Molecules by AMPK Activation*  
Samantha Hiller, Wingate University

### **University Center Ballroom - Kiosk 13 Side B**

*Testing Predictions About the Evolutionary Ecology of Capsaicin: Birds Might Not Like It Hot!*  
Aileen Wolk, Maryville University of Saint Louis

### **University Center Ballroom - Kiosk 13 Side C**

*The Effects of Ethnic vs. Non-Ethnic Music/Dancing on the Memory of Parkinson's Disease Patients*  
Maria Camila Osorio Granda, Macaulay Honors College at Brooklyn

### **University Center Ballroom - Kiosk 14 Side A**

*Trade-off Between Survival and Reproduction for Female Beetles: How Is Death-feigning and Mate Search Mediated by the Number of Previous Mates?*  
Evan Blanford, University of Kentucky

## **BIOMEDICAL ENGINEERING**

### **University Center Ballroom - Kiosk 14 Side C**

*Injection-seeded Raman Fiber Amplifier for Photoacoustic Microscopy of Lipids*  
Sang Won Choi, Union College

### **University Center Ballroom - Kiosk 15 Side A**

*Phantom Brain for Infrared Neuroimaging*  
Madison James, Oklahoma State University

## **BUSINESS/FINANCE/ACCOUNTING**

### **University Center Ballroom - Kiosk 19 Side A**

*Developing A Change Management Model to Coach Employees*  
Kelly Valente, State University of New York-Brockport

## **CELL & MOLECULAR BIOLOGY**

### **University Center Ballroom - Kiosk 19 Side C**

*Blackseed (*Nigella sativa*) Oil and Its Active Ingredient, Thymoquinone, Suppress the Aggressive Phenotype of Breast Cancer Cells*  
Safia Siddiqui, Elmhurst College

### **University Center Ballroom - Kiosk 20 Side A**

*Exploring Protein Kinase C Interactions Within the Filamentous Fungal Polarized Growth Network*  
Zainab Atiq, Rhodes College

### **University Center Ballroom - Kiosk 21 Side A**

*hiPSC-induced Cardiomyocytes Maturation*  
Di Xia, University of Florida

### **University Center Ballroom - Kiosk 23 Side A**

*Regulation of Steroid Sulfatase in the NIH-3T3 Fibroblast Cell Line by Glucocorticoids and LPS*  
Christina Bennett, Duquesne University

## **CELLULAR NEUROSCIENCE**

### **University Center Ballroom - Kiosk 25 Side A**

*Are Hypothyroidism-induced Reductions in Brain Derived Igf1 Due to Reductions in Serum Growth Hormone?*  
Alec Wright, Minnesota State University, Mankato

### **University Center Ballroom - Kiosk 26 Side A**

*FAM171B mRNA Expression in the Brain*  
Brooke Jones, Minnesota State University, Mankato

### **University Center Ballroom - Kiosk 27 Side A**

*Reciprocal Effects Of Glymphatic Function And The Experimental Autoimmune Encephalomyelitis (EAE) Model Of Multiple Sclerosis*  
Hanna Vinitsky, University of Rochester

## **CHEMICAL ENGINEERING**

### **University Center Ballroom - Kiosk 16 Side A**

*Evaluation of Sugar Utilization Pathways in the Extremely Thermophilic Plant Biomass Degrading Bacterium *caldicellulosiruptor bescii**  
Nathaniel Seals, North Carolina State University

## **CHEMISTRY**

### **University Center Ballroom - Kiosk 18 Side C**

*Quantitative Raman Microspectroscopy at Nanoliter Aqueous Microdroplets*  
Samuel Braziel, Iona College

## Student Poster Session 6 - Fri 12:00pm-1:00pm

### **University Center Ballroom - Kiosk 20 Side B**

*Adsorption and Desorption of Nucleobases on Clay Mineral Surfaces*  
David Roznovjak, North Central College

### **University Center Ballroom - Kiosk 21 Side B**

*Conformational Analysis of Neomycin B and Its Derivative*  
Vanessa Rangel, University of the Pacific

### **University Center Ballroom - Kiosk 22 Side B**

*Effect of Cigarette Smoke on English Ivy Plants*  
Jerry Carter III, Georgia College and State University

### **University Center Ballroom - Kiosk 23 Side B**

*Flipping the General Chemistry Laboratory Lecture: Increasing Student Engagement by Enhancing Self-Directed Learning*  
Hannah Nennig, University of Wisconsin - Eau Claire

### **University Center Ballroom - Kiosk 24 Side B**

*Investigating the Binding Mode of Amino Acids on the Graphene Surface*  
CHUKWUDI ONYEJEGBU, Prairie View A&M University

### **University Center Ballroom - Kiosk 25 Side B**

*Novel Binding and Shuttling Catalytic Cycle of the Aldol Reaction by Trost Dinuclear Zinc Semi-crown Ligands*  
Ayan Ahmed, Duquesne University

### **University Center Ballroom - Kiosk 26 Side B**

*Progress Towards the Synthesis of a Novel Bromo Substituted Aurone as a Promising Inhibitor of Cyclooxygenase-2*  
Sharon Stephenson, Georgia College and State University

### **University Center Ballroom - Kiosk 27 Side B**

*Structural and Energetic Properties of Pyridine-SiCl<sub>4</sub> Complexes Via Quantum Chemical Simulations and Reactivity Studies*  
Skylee Lara, University of Wisconsin - Eau Claire

### **University Center Ballroom - Kiosk 30 Side B**

*The Synthesis of Unnatural Amino Acids in Order to Synthesize Antibiotic Polypeptides*  
Barry Rich, Rhodes College

### **CLINICAL PSYCHOLOGY**

**University Center Ballroom - Kiosk 32 Side B**  
*Addressing Disparities Through a Mental Health First Aid Program in a Latinx Community*  
Keegan Edgar, Virginia Commonwealth University

### **University Center Ballroom - Kiosk 33 Side B**

*Dimensions of Spirituality and African-American Male College Student Achievement*  
Guilise Gondre, Adelphi University

### **University Center Ballroom - Kiosk 36 Side A**

*Parenting, Emotion Socialization Strategies, and Children's Conduct Problems*  
Samantha Shay, Adelphi University

### **University Center Ballroom - Kiosk 37 Side A**

*The Effectiveness of Housing First on Homeless, Mentally Ill Individuals*  
Melissa Farsang, Adelphi University

### **University Center Ballroom - Kiosk 38 Side A**

*Young Adult Problem Gambling and Alcohol Use: Personality, Physical and Emotional Health, and Gambling Beliefs*  
James Whelan, Hamline University, St. Paul

### **COGNITIVE NEUROSCIENCE**

**University Center Ballroom - Kiosk 36 Side B**  
*Does Conditional Tau KO Decrease Pathologic Alpha-synuclein Accumulation and Prevent Behavioral Deficits in Mice?*  
Aseel Dib, University of Alabama at Birmingham

### **University Center Ballroom - Kiosk 37 Side B**

*Researching the Effects of Passive and Active Movement on Level of Activity in 8-11 Month Old Infants' Prefrontal Lobe*  
Suzanne Zuckerman, Ithaca College

### **COMMUNICATION SCIENCES AND DISORDERS**

**University Center Ballroom - Kiosk 35 Side C**  
*Changes in Grammatical Accuracy in Narrative Retells by Children With Specific Language Impairment Following Recast Intervention*  
Crystal Gray, Augustana College

## Student Poster Session 6 - Fri 12:00pm-1:00pm

### COMMUNICATIONS

#### **University Center Ballroom - Kiosk 40 Side B**

*What It Takes for Shy Japanese People to Build Close Relationships?*  
Kohei Oki, Musashino University

### COMPUTER ENGINEERING

#### **University Center Ballroom - Kiosk 24 Side C**

*Implementing Semi-Autonomous Robotics on a Hexapod Platform*  
Brooke Kennedy, Bellarmine University

### COMPUTER SCIENCE

#### **University Center Ballroom - Kiosk 37 Side C**

*Determining the Net Traffic at the Entrance of a Honeybee Hive*  
Gurney Buchanan, Appalachian State University

#### **University Center Ballroom - Kiosk 38 Side C**

*Internet of Things Lock Box*  
Spencer Gowin, University of Nebraska at Kearney

#### **University Center Ballroom - Kiosk 39 Side C**

*Technological Solution: Apply Musicology to Helping Alzheimer's Patients*  
Yichen Wei, University of Minnesota, Duluth

### ECOLOGY & ORGANISMAL BIOLOGY

#### **University Center Ballroom - Kiosk 42 Side C**

*Figuring the Fate of *S. bombifrons*: Can Southern Populations of This Species Withstand Climate Change?*  
Emma Nault, Elon University

#### **University Center Ballroom - Kiosk 43 Side C**

*Seasonal Fluctuations in Salamander eDNA in Central Kentucky Streams*  
Ronald Sams, Asbury University

#### **University Center Ballroom - Kiosk 44 Side A**

*Trematode Parasite Prevalence and Potential Manipulation of *Physa acuta* Snails (Mollusca: Gastropoda) at a Restored Coastal Wetland (Samuel Myers Park, Racine, WI, USA)*  
Liv Gripko, University of Wisconsin - Parkside

### ECONOMICS

#### **University Center Ballroom - Kiosk 39 Side A**

*Beyond the Gas Tax: Financing California's Transportation Infrastructure in the 21st Century*  
Jonathan Matt, George Mason University

### EDUCATION

#### **University Center Ballroom - Kiosk 31 Side B**

*Military Medical Student's and Civilian Medical Student's Reaction to Pharmaceutical Marketing Tactics*  
Jersey Krupp, Virginia Commonwealth University

#### **University Center Ballroom - Kiosk 41 Side B**

*Comparison Between a Traditional Lecture Style and a Flipped Classroom on Students' Success in General Chemistry*  
Jessica Mundy, Radford University

#### **University Center Ballroom - Kiosk 42 Side B**

*Habits of Effective Teachers*  
Emily Nickerson, Bridgewater State University

#### **University Center Ballroom - Kiosk 43 Side B**

*Novel Physics Undergraduate Labs with Robotics Projects*  
Megan Brandt, Webster University

#### **University Center Ballroom - Kiosk 44 Side C**

*The Extinction of the Renaissance Man: Disciplinary vs. Interdisciplinary Education*  
Nicole Brooks, Virginia Commonwealth University

### ELECTRICAL ENGINEERING

#### **University Center Ballroom - Kiosk 17 Side C**

*Design and Development of a Laser Micromachining System for Microfluidics*  
Jacob Nielesen, University of Central Oklahoma

#### **University Center Ballroom - Kiosk 18 Side A**

*Hyperspectral Imaging for in Vivo Detection of Trachea Tissue*  
William Christensen, United States Military Academy at West Point

## Student Poster Session 6 - Fri 12:00pm-1:00pm

### **University Center Ballroom - Kiosk 18 Side B**

*T.I.G.E.R. - Tensegrity Inspired Ground Exploration Robot*  
Emmanuel Lim, University of Memphis

### **ENGINEERING/ENGINEERING TECHNOLOGY**

#### **University Center Ballroom - Kiosk 16 Side B**

*Development and Analysis of a Wheelchair Mounted Robotic Manipulator*  
Logan MacKenzie, Grove City College

#### **University Center Ballroom - Kiosk 16 Side C**

*Slider Crank Power Take-off System Buoy Optimization*  
Seeon Carter, Western Carolina University

### **ENGLISH**

#### **University Center Ballroom - Kiosk 41 Side A**

*Critically Evaluating Gendered Language in the Writing Center*  
Whitney Malin, University of Wisconsin - La Crosse

#### **University Center Ballroom - Kiosk 42 Side A**

*Of Course You Can Repeat the Past Old Sport: An Application of Jean Baudrillard's Simulacra and Simulation to Baz Luhrmann's The Great Gatsby (2013)*  
Lois Suter, Lone Star College System The Honors College

### **ENVIRONMENTAL ENGINEERING**

#### **University Center Ballroom - Kiosk 17 Side A**

*Measuring and Stimulating Weakly Electric Fish*  
Nicholas Mars, University of Michigan

### **ENVIRONMENTAL STUDIES & SCIENCES**

#### **University Center Ballroom - Kiosk 43 Side A**

*Impact of Fertilizer, Corn Residue, and Cover Crops on Mycorrhizal Inoculum Potential and Arbuscular Mycorrhizal Fungi Associations*  
Rachel Brockamp, University of Minnesota - Morris

### **EXPERIMENTAL PSYCHOLOGY**

#### **University Center Ballroom - Kiosk 44 Side B**

*An Evaluation of Video Modeling with and Without Non-Examples*  
Jennifer Martin, University of Wisconsin - Milwaukee

### **University Center Ballroom - Kiosk 45 Side B**

*Companion Animals and Their Effect on Student Belonging in the Classroom*  
Megan Schwartz, University of Wisconsin - River Falls

#### **University Center Ballroom - Kiosk 46 Side B**

*Do Defendants' Gender Identity and Sexual Orientation Influence Juror Decisions?*  
Jamie Shabman, University of North Georgia

#### **University Center Ballroom - Kiosk 47 Side B**

*Examining the Effects of Screen Time on Biopsychosocial Aspects of Health*  
Lauren Messbarger, University of Nebraska at Kearney

#### **University Center Ballroom - Kiosk 48 Side B**

*Influence of Stress-Reduction on Physiological Stress and Performance*  
Levi Haven, University of West Florida

#### **University Center Ballroom - Kiosk 49 Side B**

*Nonlinear Dynamical Systems in Visual Search*  
Bre'Ana Byrd, University of Central Oklahoma

#### **University Center Ballroom - Kiosk 50 Side B**

*Predicting Variations in Young Adults' Implicit Attitudes Toward Consensual Nonmonogamy Using the Five Factor Model of Personality*  
Paige Schreifels, University of Wisconsin - Oshkosh

#### **University Center Ballroom - Kiosk 51 Side B**

*Social Media and Dining Behavior*  
Jayati Vyas, East Carolina University

#### **University Center Ballroom - Kiosk 52 Side B**

*The Effects of Childhood Trauma Exposure on Young Adulthood Optimism*  
Candice Crossnine, University of Memphis

#### **University Center Ballroom - Kiosk 53 Side B**

*The Relationship Between Religiosity and Alcohol Use in Young Adults*  
Madeline Dormois, University of Memphis

## Student Poster Session 6 - Fri 12:00pm-1:00pm

### GEOGRAPHY & EARTH SCIENCES

#### University Center Ballroom - Kiosk 45 Side A

*Analysis of the Acute Toxicity of SharkTec Repellent*  
Ania Golaway, Arkansas State University

#### University Center Ballroom - Kiosk 46 Side A

*Comparative Analysis of Violent Crime Events in Milwaukee and Chicago*  
Mitchel Larson, University of Wisconsin - La Crosse

#### University Center Ballroom - Kiosk 47 Side A

*Elkhorn Wisconsin Area Nitrate Study*  
Olivia Feider, University of Wisconsin - Eau Claire

#### University Center Ballroom - Kiosk 48 Side A

*Isolation and Characterization of Heavy Metal Tolerant Bacteria from a Superfund Site*  
Lionel Colon, Borough of Manhattan Community College

#### University Center Ballroom - Kiosk 49 Side A

*Putting the "Eco" in Economics*  
Shelby Corbitt, University of West Florida

#### University Center Ballroom - Kiosk 50 Side A

*The Unrecognized Link Between The Portrayal of Sharks and Their Extinction*  
Jay Ayer, University of West Florida

#### University Center Ballroom - Kiosk 51 Side A

*What Is the Best Water Quality Index (WQI) to Assess Headwater Streams?*  
Michelle Turnbach, Susquehanna University

### HEALTH SCIENCES

#### University Center Ballroom - Kiosk 40 Side A

*Sunitinib Metabolism and Implications for Drug-Induced Liver Damage*  
Gracia Amaya, Lipscomb University

#### University Center Ballroom - Kiosk 59 Side B

*BSU Bystander Intervention: Addressing Sexual Harassment*  
Johanna Delaney, Bridgewater State University

### University Center Ballroom - Kiosk 60 Side A

*Nitrate Contamination in Groundwater of Upper Glacial Aquifer of South- East Queens, New York City*  
Somtochukwu Egonu, City University of New York- York College

### University Center Ballroom - Kiosk 61 Side B

*Medicare Outreach Program: Satisfaction and Cost-Savings*  
Stuart McFarland, Auburn University

### HISTORY

#### University Center Ballroom - Kiosk 40 Side C

*Institutional Integration of a Community: The Latin American Community of Union County, North Carolina*  
Zachary Lewis, Wingate University

### INTERNATIONAL STUDIES

#### University Center Ballroom - Kiosk 62 Side A

*Feminist Activism and Women's Rights in Georgia: 25 Years of Independence*  
Tamar Jakeli, Lafayette College

### KINESIOLOGY & EXERCISE SCIENCE

#### University Center Ballroom - Kiosk 57 Side A

*Effects of Creatine on Blood Pressure Before, During, and After High Intensity Strength Training*  
Jake Schmitz, Gustavus Adolphus College

#### University Center Ballroom - Kiosk 58 Side A

*Kinesio Tape: Effect on Force Output*  
Angela Nuccio, University of the Pacific

#### University Center Ballroom - Kiosk 59 Side A

*The Effects of Statins on Muscular Strength and Stamina in Older Adults*  
Matthew Bjork, Hamline University

### LINGUISTICS

#### University Center Ballroom - Kiosk 62 Side B

*Generalized Adaptation to Novel Foreign Accents*  
Lauren Oey, University of Rochester

## Student Poster Session 6 - Fri 12:00pm-1:00pm

### MANAGEMENT

#### **University Center Ballroom - Kiosk 15 Side B**

*Employee Engagement: Influenced by Supervisor Affect and Psychological Ownership*

Stephanie Duenneman, University of Nebraska at Kearney

### MARKETING

#### **University Center Ballroom - Kiosk 15 Side C**

*Portrayal of Millennials in the Public Sphere: A Data Comparison Across Generations*

Maria Salerno, Carthage College

### MATHEMATICS

#### **University Center Ballroom - Kiosk 55 Side A**

*CoVar Applied Technologies Scoring Practices for Remote Sensing*

Oumar Karaga, Fisk University

### MECHANICAL ENGINEERING

#### **University Center Ballroom - Kiosk 52 Side A**

*Combined Diffusion and Field Charging of Aerosol Particles in the Transition Regime*

Andrei Fendley, University of Memphis

#### **University Center Ballroom - Kiosk 53 Side A**

*Heat Transfer Model of Human Thigh: Implications for Tourniquet Use*

Luke Smith, University of South Alabama

### MICROBIOLOGY & IMMUNOLOGY

#### **University Center Ballroom - Kiosk 32 Side A**

*CRISPR/Cas9 Gene Modification of the FMN Riboswitch in Klebsiella pneumoniae*

Rohini Rajnarayanan, Guilford College

#### **University Center Ballroom - Kiosk 33 Side A**

*Linking Glucose Metabolism and Capsule Production in Serratia Marcescens*

Karana Wickens, University of Michigan

#### **University Center Ballroom - Kiosk 34 Side A**

*Supplemental Iron Offsets the Antibacterial Properties of Manuka Honey on Escherichia coli*

Laurisa Ankley, Eastern Washington University

### MUSIC

#### **University Center Ballroom - Kiosk 1 Side C**

*Recorder Re-Arrangements: Student Engagement in Popular Music for Recorder*

Micayla Dawson, University of Northern Iowa

### NURSING

#### **University Center Ballroom - Kiosk 54 Side B**

*Attitudes of Nursing Students Toward Mindfulness and CAM*

Hannah Mitchell, Capital University

#### **University Center Ballroom - Kiosk 55 Side B**

*Engaging and Empowering Black and Latina Elders as Partners in the Pursuit of the Promise*

Ayah Allan, University of Wisconsin - Milwaukee

#### **University Center Ballroom - Kiosk 56 Side B**

*Improving Utilization of Palliative Care: A Survey of Nurse Knowledge and Fears*

Melanie Wiggins, University of West Florida

#### **University Center Ballroom - Kiosk 57 Side B**

*Perceptions of Alumni Regarding the Impact of the Alaska Immersion Clinical*

Cassandra Severson, Gustavus Adolphus College

#### **University Center Ballroom - Kiosk 58 Side B**

*The Effects of Mindfulness Meditation on Stress Levels in Nursing Students*

Alyssa Johnson, University of West Florida

### NUTRITION

#### **University Center Ballroom - Kiosk 34 Side B**

*The Effects of Whey vs. Soy Protein at Breakfast on Satiety Response, Energy Intake and Metabolism*

Caroline Nelson, Elon University

### PHYSICS

#### **University Center Ballroom - Kiosk 31 Side C**

*Alpha Radiation Detector Development and Testing Under Various Conditions*

Andrew Jones, Kennesaw State University

## Student Poster Session 6 - Fri 12:00pm-1:00pm

### **University Center Ballroom - Kiosk 32 Side C**

*Design and Fabrication of Photonic Crystals for Biosensors*  
Opeyemi Arogundade, Hamline University

### **PHYSIOLOGY**

#### **University Center Ballroom - Kiosk 30 Side A**

*Comparison of Brain-Initiated Versus Non-Brain-Initiated Rehabilitation in Spinal Cord Injured Rats*  
Taania Girgl, Wayne State University

#### **University Center Ballroom - Kiosk 31 Side A**

*The Effect of Verrucarin J on Lung Cancer Cells and Cancer Stem Cells*  
karen udoh, University of Louisville

### **POLITICAL SCIENCE**

#### **University Center Ballroom - Kiosk 28 Side A**

*Confined Education: Reforming the Education in Juvenile Detention Centers in Arkansas*  
Anna Walker, Hendrix College

#### **University Center Ballroom - Kiosk 29 Side A**

*Political Cohesion Among Feminists and Lesbians, Gays, and Bisexuals: Selection Effects at Work?*  
Matthew Wilson, American University

### **PUBLIC HEALTH**

#### **University Center Ballroom - Kiosk 27 Side C**

*Defining Successful Gardens: Cultivating Collective Efficacy in Neighborhood Community Gardens Across North Carolina*  
Chloe Donohoe, Elon University

#### **University Center Ballroom - Kiosk 29 Side C**

*Multilevel Modeling of Requested Veteran's Affairs Healthcare Services in Oklahoma*  
Alanna Riederer, University of Central Oklahoma

#### **University Center Ballroom - Kiosk 30 Side C**

*The Effects of Statins on Functional Mobility in Older Adults*  
McKenzie Opse, Hamline University

### **RELIGIOUS STUDIES**

#### **University Center Ballroom - Kiosk 26 Side C**

*The Capability for Sustainability in Sacred Lands: From Ladakh to the Lowcountry*  
Luke Shirley, College of Charleston

### **SOCIAL WORK**

#### **University Center Ballroom - Kiosk 25 Side C**

*Effects of Workplace Bullying Among Nurses*  
Montie Hopper, Midwestern State University

### **SOCIOLOGY**

#### **University Center Ballroom - Kiosk 23 Side C**

*Media Exposure and Its Effects on Social Acceptance of the LGBTQ Community*  
Andrew Woodard, Austin PEAY State University

### **WOMEN, GENDER, AND SEXUALITY STUDIES**

#### **University Center Ballroom - Kiosk 20 Side C**

*He Can but She Can't: Examining the Sexual Double Standard Toward Initiators of Consensually Nonmonogamous Relationships*  
Jocelyn Hart, University of Wisconsin - Oshkosh

#### **University Center Ballroom - Kiosk 21 Side C**

*The Dark Side of Infidelity: Examining the Predictive Utility of the Dark Triad When Examining Variations in Judgments of Hypothetical Infidelity*  
Rebecca Tolfa, University of Wisconsin - Oshkosh

## Student Poster Session 7 - Fri 1:20pm-2:20pm

### Student Poster Session 7 - Fri 1:20pm-2:20pm

#### ANTHROPOLOGY

##### **University Center Ballroom - Kiosk 2 Side A**

*Markers of Occupational Stress Revealed by Two Ancient Rope-Makers from the Bronze Age in Thailand*  
Casey Murray, Adelphi University

#### ARCHEOLOGY

##### **University Center Ballroom - Kiosk 2 Side B**

*Evaluation of Two Archeological Recovery Methods*  
Jenni Baggett, University of West Florida

#### ARCHITECTURE & INTERIOR DESIGN

##### **University Center Ballroom - Kiosk 2 Side C**

*The Substance of Home: Architecture, Foreclosure and Eviction*  
Teonna Cooksey, University of Wisconsin - Milwaukee

#### ART HISTORY

##### **University Center Ballroom - Kiosk 1 Side A**

*Disjunctive Reception of Camilo Egas's Art in Ecuador and New York City.*  
Gabriela Larkin, George Mason University

##### **University Center Ballroom - Kiosk 1 Side B**

*The Art of Conservation: Combating Consumerist Culture with Ecological Art*  
Jennifer Clark, University of Central Oklahoma

#### ASTRONOMY

##### **University Center Ballroom - Kiosk 3 Side A**

*ARCC@UWM: Searching and Solving Pulsar Puzzles*  
Rusty Mundorf, University of Wisconsin - Milwaukee

##### **University Center Ballroom - Kiosk 3 Side B**

*Uncovering Martian Atmospheric Trends Through Analysis of Emissions of O<sub>2</sub>(a1?g) Near the Northern Summer Solstice*  
Jonathon Nosowitz, Iona College

#### BEHAVIORAL NEUROSCIENCE

##### **University Center Ballroom - Kiosk 3 Side C**

*Brain Volume in Relation to Pediatric Cognitive Ability*  
Ramasahitya Karra, Wayne State University

##### **University Center Ballroom - Kiosk 4 Side A**

*Emotional Dysregulation And Safety Signal Processing: Associations With Childhood Trauma, Depression and Anxiety Symptoms*  
Nhat Nguyen, Kennesaw State University

##### **University Center Ballroom - Kiosk 4 Side C**

*Regulation of RunX Proteins in Primary Sensory Neurons by Exercise Prevents the Development of Neuropathic Pain After SCI*  
Avish Jain, Drexel University

##### **University Center Ballroom - Kiosk 5 Side A**

*Transgenerational Effects of Preconceptional Stress & Gestational Antidepressant Exposure*  
Abdul-Rahman Suleiman, Wayne State University

#### BIOCHEMISTRY

##### **University Center Ballroom - Kiosk 5 Side B**

*Characterization of the Electrostatic Interactions Between Tau Peptides and Charged Lipid Membrane Mimics*  
Lexus Tatge, Hamline University, St. Paul

##### **University Center Ballroom - Kiosk 5 Side C**

*Effects of Macromolecular Crowding on Ferredoxin – Type Enzyme Kinetics*  
Danielle Bautista, Duquesne University

##### **University Center Ballroom - Kiosk 6 Side A**

*Identification of Antagonists of the Orphan GPCR, GPR88, as Potential Treatments for Mental Health Diseases*  
Corbin Hobby, University of Memphis

##### **University Center Ballroom - Kiosk 6 Side B**

*Nanodisc Technology: Exploring Intermolecular Interactions in Membrane-bound Glutamate Carboxypeptidase*  
Kyrsten Holderby, Eastern Illinois University

## Student Poster Session 7 - Fri 1:20pm-2:20pm

### **University Center Ballroom - Kiosk 6 Side C**

*Rotavirus Entry into Polarized Columnar Madin-Darby Canine Kidney Cells*  
Brian Garcia, Florida International University

### **University Center Ballroom - Kiosk 7 Side A**

*Targeting Base Excision Repair to Kill B-cell Lymphoma Cells*  
Manpreet Kaur, Wayne State University

### **University Center Ballroom - Kiosk 7 Side B**

*Virtual Screening of S100A12 Inhibitors*  
Kinara Byrd, Fisk University

### **University Center Ballroom - Kiosk 18 Side A**

*Bio-production of RRAS for the Characterization of KM23/RRAS Dimerization in Metastasis*  
Youssef Khalafallah, George Mason University

## **BIOLOGICAL ENGINEERING**

### **University Center Ballroom - Kiosk 7 Side C**

*Role of Diabetes/Glucose Metabolism in Cardiovascular Fibrosis and Calcification*  
Daniela Medina, Florida International University

## **BIOLOGY**

### **University Center Ballroom - Kiosk 8 Side A**

*A Survey of the Rhizosphere Microbial Community of Grasses and Legumes Using 16S rRNA Amplification*  
Jacob Beckham, Tulsa Community College

### **University Center Ballroom - Kiosk 8 Side B**

*Antibacterial Properties of Novel Amphiphiles: Exploring Structure-Activity Relationships*  
Stephanie Masters, James Madison University

### **University Center Ballroom - Kiosk 8 Side C**

*Biochemical Expression and Characterization of CRISP3, a Novel Protein Found in Spider Dragline Silk Fibers*  
Nura Othman, University of the Pacific

### **University Center Ballroom - Kiosk 9 Side A**

*Characterization of a Novel Thermophilic Geobacillus*  
Lora Schell, Susquehanna University

### **University Center Ballroom - Kiosk 9 Side B**

*Confirmatory Test for Saliva Using the ELISA Method for Identification of Statherin*  
Nicole Meister, Maryville University of Saint Louis

### **University Center Ballroom - Kiosk 9 Side C**

*DNA Methylation on Evolutionary Timespans: Conservation of Genomic Sequence and Epigenetic Marks*  
Melissa Drown, University of Minnesota, Twin Cities

### **University Center Ballroom - Kiosk 10 Side A**

*Effects of Pink1, Buffy, DeBcl, and Presenilin (psn) Genes on Mitochondrial Health in Drosophila melanogaster*  
Wadey Abdelqader, University of West Florida

### **University Center Ballroom - Kiosk 10 Side B**

*Exploring the Influence of Removal of Kudzu on the Soil Fungal Community*  
Fiona Lien, Georgia College and State University

### **University Center Ballroom - Kiosk 10 Side C**

*gb4gv: A Genome Browser for Geminivirus*  
Catherine Newsom-Stewart, Lafayette College

### **University Center Ballroom - Kiosk 11 Side A**

*Honey Bee Viral Infections: Establishment of an Infection Model and Determination of the Effects of Varroa Mites on Viral Infection Severity*  
Tammy Tran, Creighton University

### **University Center Ballroom - Kiosk 11 Side B**

*Influence of Preservatives on Gut Microbiota*  
Brenna Schutzman, Xavier University

### **University Center Ballroom - Kiosk 11 Side C**

*Isolating Antibiotic Compounds from Soil Microbes*  
Lauren Atkinson, Eastern Connecticut State University

### **University Center Ballroom - Kiosk 12 Side A**

*Magnetoreception in Western Harvester Ants*  
Beltran Torres, Webster University

## Student Poster Session 7 - Fri 1:20pm-2:20pm

### **University Center Ballroom - Kiosk 12 Side B**

*Mutations in Crinkled, Flare, and Twinfilin Cause Morphological Defects in Denticles of Drosophila Embryos*

Helen Majer, North Central College

### **University Center Ballroom - Kiosk 12 Side C**

*Phylogenetics and DNA Sequencing of the Actin Gene in Pilobolus*

Andrew Cressman, Longwood University

### **University Center Ballroom - Kiosk 13 Side A**

*Regulation of MLK Kinases in Ovarian Cancer Cells*

Olivia Sagan, University of Toledo

### **University Center Ballroom - Kiosk 13 Side B**

*Thalidomide Treated Sperm and the Effects on Embryonic Development of Lytechinus pictus*

Matthew Chrencik, Susquehanna University

### **University Center Ballroom - Kiosk 13 Side C**

*The Effects of Infants on Mother's Behavior in Coquerel's Sifakas (*Propithecus Coquereli*): A Pilot Study*

Amaya Watters, North Carolina State University

### **University Center Ballroom - Kiosk 14 Side A**

*Transcriptome Analysis of Escherichia coli in Response to Specific IgY Through RNA-Seq*

Reed Woyda, Minnesota State University, Mankato

## **BIOMEDICAL ENGINEERING**

### **University Center Ballroom - Kiosk 14 Side B**

*Characterizing Trabecular Bone Microarchitecture in Murine Bone Post-Stroke Using Micro-Computed Tomography*

Sriharsha Pinnamaraju, North Carolina State University

### **University Center Ballroom - Kiosk 14 Side C**

*Is Lipophilicity a Valid Predictor of Drug Sequestration? an Investigation in Support of Lipid Resuscitation*

Nicholas Biondo, North Carolina State University

### **University Center Ballroom - Kiosk 15 Side A**

*Rolled PCL Meshes as Biocompatible Scaffolds for Ligament Repair*

Hagar Kenawy, Lafayette College

## **BUSINESS/FINANCE/ACCOUNTING**

### **University Center Ballroom - Kiosk 19 Side A**

*Do Generational Differences Exist: Management Best Practices*

Elizabeth DeRosier, University of Wisconsin - River Falls

## **CELL & MOLECULAR BIOLOGY**

### **University Center Ballroom - Kiosk 19 Side C**

*Bradyzoite Differentiation Is Driven by Stage-specific Transcription Factor Binding in Toxoplasma Gondii*

Harim Won, University of Nebraska at Omaha

### **University Center Ballroom - Kiosk 20 Side A**

*Exploring the Role of LRxS in Moss Growth and Development*

Rebecca Anmave, University of Michigan

### **University Center Ballroom - Kiosk 21 Side A**

*Histone Deacetylase Inhibitors May Inhibit Cancer Cell Migration by Blocking Genome Compaction*

Peyton Terry, University of Tennessee at Knoxville

### **University Center Ballroom - Kiosk 22 Side A**

*Maspin Re-expression Induces Breast Cancer Cell Re-differentiation*

Maria Matta, Wayne State University

### **University Center Ballroom - Kiosk 23 Side A**

*Retinoic Acid Treatment Decreases Proliferation of Casein Kinase-2 Overexpressing Neuroblastoma Cells Without Affecting Cell Viability*

Kyra Valent, Lebanon Valley College

### **University Center Ballroom - Kiosk 24 Side A**

*The Pro-Angiogenic Mechanism, Migration-Neutral Effect of the Di-Peptide LQ*

Jonathan Attalla, Lipscomb University

## **CELLULAR NEUROSCIENCE**

### **University Center Ballroom - Kiosk 25 Side A**

*Assessing the Integrity of Cortical Layering: An Application to Autism Spectrum Disorder*

Jeff Berger, University of Wisconsin - Oshkosh

## Student Poster Session 7 - Fri 1:20pm-2:20pm

### **University Center Ballroom - Kiosk 26 Side A**

*Increase in the Protein Levels of an Anti-sprouting Factor and Integrin Receptor, Thy-1, with Age in the Supraoptic Nucleus: Implications for a Role in Collateral Axonal Sprouting*

Talia Dalzell, Concordia College - Moorhead

### **University Center Ballroom - Kiosk 27 Side A**

*Reduced Actin Polymerization in Schizophrenia Brain*  
Hriday Bhambhani, University of Alabama at Birmingham

## **CHEMICAL ENGINEERING**

### **University Center Ballroom - Kiosk 16 Side A**

*Microbial Induced Calcium Carbonate Precipitation of Coal Combustion Residuals*  
Brooke Filanowski, Montana State University Bozeman

## **CHEMISTRY**

### **University Center Ballroom - Kiosk 18 Side C**

*Image Acquisition and Analysis: Developing Software to Increase the Accuracy and Speed of Measurements in the Lab*  
Geoffrey Cawley, Iona College

### **University Center Ballroom - Kiosk 20 Side B**

*Alk Phosphonate Films on Copper Oxide Surfaces as a Platform for Supported Catalysis*  
Sarah Heisey, University of Mary Washington

### **University Center Ballroom - Kiosk 23 Side B**

*Forensic Chemical Analysis of Synthetic Cathinones Using Portable Mass Spectrometric Instrumentation*  
Caitlin Cain, Virginia Commonwealth University

### **University Center Ballroom - Kiosk 24 Side B**

*Investigating the Role of Intramolecular Hydrogen Bonding in Dual-Emitting Isophthalamides*  
Mariah Arneson, University of Minnesota, Twin Cities

### **University Center Ballroom - Kiosk 25 Side B**

*One Pot Synthesis and Toxicity Test of Cadmium Selenide Quantum Dots*  
Amber Seidel, Black Hills State University

### **University Center Ballroom - Kiosk 26 Side B**

*Quantification of Adsorption of Organic Compounds by Silver Nanoparticles*  
Sondrica Goines, College of Charleston

### **University Center Ballroom - Kiosk 27 Side B**

*Structure and Reactivity of Glassy Material*  
Ashley Lipshaw, Albright College

### **University Center Ballroom - Kiosk 28 Side B**

*Synthesis and Electrochemical Properties of N-heterocyclic Carbene Complexes*  
Allyssa Conner, Lafayette College

### **University Center Ballroom - Kiosk 29 Side B**

*Synthesis of Variable Sized Silver and Gold Nanoparticles for the Binding and Delivery of Drug Derivatives*  
Ally Eubanks, Georgia College and State University

### **University Center Ballroom - Kiosk 30 Side B**

*Thermostability Analyses of Broad-Spectrum Antibiotics Cephalexin and Ciprofloxacin Via Liquid Chromatography-Mass Spectrometry*  
Aerial Pratt, Gannon University

## **CIVIL ENGINEERING**

### **University Center Ballroom - Kiosk 17 Side B**

*Methanogenesis of Paper Boxes*  
Mary Kloos, Minnesota State University, Mankato

## **CLINICAL PSYCHOLOGY**

### **University Center Ballroom - Kiosk 35 Side A**

*Influences of Mindfulness on African American Stress Levels and Success*  
Leah Clark, Clark Atlanta University

### **University Center Ballroom - Kiosk 37 Side A**

*The Effects of Time and Novelty on the Quality of Mother-Infant Interactions During Play*  
Austen Tarabay, Slippery Rock University of Pennsylvania

## Student Poster Session 7 - Fri 1:20pm-2:20pm

### **COGNITIVE NEUROSCIENCE**

#### **University Center Ballroom - Kiosk 36 Side B**

*Does Social Context Influence Emotional Language Comprehension Through Facial Muscle Activity?*  
Ericka Schaeffer, University of Wisconsin - Whitewater

#### **University Center Ballroom - Kiosk 37 Side B**

*Resting Brain Local Connectivity Among Eyes Closed Samples of Individuals with Autism*  
Niharika Loomba, University of Alabama at Birmingham

### **COMMUNICATION SCIENCES AND DISORDERS**

#### **University Center Ballroom - Kiosk 35 Side C**

*Color Word Naming and Identification of Adults*  
Megan Naylor , University of Nebraska at Kearney

### **COMMUNICATIONS**

#### **University Center Ballroom - Kiosk 38 Side B**

*Central: An Under 21 Night Club*  
Jada Taylor, Salisbury University

#### **University Center Ballroom - Kiosk 39 Side B**

*Salisbury Farm-to-Table Initiative*  
Kathleen Nizich, Salisbury University

### **COMPUTER ENGINEERING**

#### **University Center Ballroom - Kiosk 24 Side C**

*Photovoltaics in Eastern Kentucky: The Feasibility Study of Abundant Renewable Energy Resources*  
Adam Stanley, Morehead State University

### **COMPUTER SCIENCE**

#### **University Center Ballroom - Kiosk 36 Side C**

*Behavior Based Wireless Surveillance*  
David Willis, University of Kentucky

#### **University Center Ballroom - Kiosk 37 Side C**

*Developing a Novel Approach for Analyzing Power Wheelchair Users' Activity Levels*  
Brendan Bryan, University of Central Oklahoma

#### **University Center Ballroom - Kiosk 39 Side C**

*The Analysis of Frog Calls Using a Sound-Filtering Neural Network*  
Amber Nieves, Bridgewater State University

### **ECOLOGY & ORGANISMAL BIOLOGY**

#### **University Center Ballroom - Kiosk 41 Side C**

*Characterization of Mycoplasma-Related Endobacteria in Environment-Derived Arbuscular Mycorrhizal Fungi*  
Aolin Zhang, Brown University

#### **University Center Ballroom - Kiosk 42 Side C**

*Fish Community Composition and Diet Analysis Using DNA Barcoding After a Regime Shift in Gunston Cove, VA*  
Tanya Traeger, George Mason University

#### **University Center Ballroom - Kiosk 43 Side C**

*Seed Germination, Early Growth, and Conservation of an Endemic and Endangered Plant of Puerto Rico in Laboratory Conditions*  
Fernando Vilá Terrada, Universidad Metropolitana

#### **University Center Ballroom - Kiosk 44 Side A**

*Understanding the Effects of Herbicide Application on Hoary Alyssum (*Berteroia incana L.*) Seed Biology*  
Uriel Menalled, Montana State University Bozeman

### **ECONOMICS**

#### **University Center Ballroom - Kiosk 39 Side A**

*Catastrophic Spending in Tanzania*  
Dylan Taam, University of the Pacific

### **EDUCATION**

#### **University Center Ballroom - Kiosk 38 Side A**

*"Don't Count Me Out!" Recognizing Factors That Enhance Student Retention*  
Kiera Smith, Stephen F. Austin State University

#### **University Center Ballroom - Kiosk 41 Side B**

*Correlations Among Adverse Childhood Experiences, Mindfulness, Depression and Job Stress in Early Head Start Teachers*  
Khadija Mubarik, Wayne State University

#### **University Center Ballroom - Kiosk 43 Side B**

*Preservice Teachers Conceptions of Integrating Mobile Technology: Instructional Practices and Policies*  
Chloe Fann, University of Memphis

## Student Poster Session 7 - Fri 1:20pm-2:20pm

### **University Center Ballroom - Kiosk 44 Side C**

*The Five Pillars of Effective Curriculum Development*  
Erin Truesdell, Drexel University

### **ELECTRICAL ENGINEERING**

#### **University Center Ballroom - Kiosk 17 Side C**

*Design and Optimization of a Wearable Thermoelectric Generator for Body Heat Harvesting*  
Zachary Fearnside, North Carolina State University

### **ENGINEERING/ENGINEERING TECHNOLOGY**

#### **University Center Ballroom - Kiosk 16 Side B**

*Development of Laminography Imaging Technique Using Lab X-ray Source*  
James Eun, University of Tennessee at Knoxville

#### **University Center Ballroom - Kiosk 16 Side C**

*Social Scarf*  
Sydney-Morgan Arthur, Western Carolina University

### **ENGLISH**

#### **University Center Ballroom - Kiosk 41 Side A**

*Divided, Yet Unified: Violence and Transgender Identity in Breakfast on Pluto*  
Samantha Correia, Bridgewater State University

#### **University Center Ballroom - Kiosk 42 Side A**

*Pop Culture's Influence on the Stories We Hear in Music*  
Karah Smith, Michigan State University

### **ENVIRONMENTAL ENGINEERING**

#### **University Center Ballroom - Kiosk 17 Side A**

*Novel Sensor for Detection of Bacteria in Environmental Water*  
Kwendo Mwaniki, University of Wisconsin - Milwaukee

### **ENVIRONMENTAL STUDIES & SCIENCES**

#### **University Center Ballroom - Kiosk 43 Side A**

*Metformin Madness: Effects of an Anti-diabetic Drug on Epidermal Club Cell Investment in Fathead Minnows*  
Matthew Finegan , Ithaca College

### **EXPERIMENTAL PSYCHOLOGY**

#### **University Center Ballroom - Kiosk 44 Side B**

*An Examination of Auditory Gist Perception*  
Margaret McMullin, University of Wisconsin - Parkside

#### **University Center Ballroom - Kiosk 45 Side B**

*Comparing the Effects of Arachidonoyl Serotonin (AA-5-HT) and Diazepam on Nucleus Accumbens Dopamine Release*  
Josiah Comstock, University of Memphis

#### **University Center Ballroom - Kiosk 46 Side B**

*Does College Major Influence Belief Updating About Vaccines?*  
Heather Zinn, Susquehanna University

#### **University Center Ballroom - Kiosk 47 Side B**

*Examining the Link Between Religiosity and Altruistic Behavior of College Students*  
Theresa Havelka, Christian Brothers University

#### **University Center Ballroom - Kiosk 48 Side B**

*Instructors' Perceptions of Teaching Methods and Neuromyths*  
Kylie Gorney, University of Wisconsin - Stout

#### **University Center Ballroom - Kiosk 49 Side B**

*One Thing Leads to Another: Untangling the Relationship Between Depression and Pain in Outpatients with Serious Illness*  
Oladele Osisami, University of Alabama at Birmingham

#### **University Center Ballroom - Kiosk 50 Side B**

*Psychological Variables Associated With Internet Gaming Disorder Symptoms*  
Moriah Willis, College of St Scholastica

#### **University Center Ballroom - Kiosk 52 Side B**

*The Effects of Family Characteristics on Coping Strategies with Sexual Harassment in Adolescent Females*  
Ravyn Tanner, University of Kentucky

#### **University Center Ballroom - Kiosk 53 Side B**

*The Relationship Between Unconscious Thoughts on a College Major and Academic Success in That Major*  
Sarah Mace-Rodon, Adelphi University

## Student Poster Session 7 - Fri 1:20pm-2:20pm

### **GEOGRAPHY & EARTH SCIENCES**

#### **University Center Ballroom - Kiosk 45 Side A**

*Assessing the Affect of Flow Rate on Three Aquaponics Systems*

Erin Ganzke, Carthage College

#### **University Center Ballroom - Kiosk 46 Side A**

*Comparison of Macroinvertebrate Colonization of Different Substrates in Artificial Substrate Basket Samplers to Determine Stream Quality*

Hannah-Beth Griffis, Joliet Jr College

#### **University Center Ballroom - Kiosk 48 Side A**

*Lessons Learned from STORMWATER Survey in Flood Prone Area of Southeast Queens Funded by NYCDEP (NYC Department of Environmental Protection)*  
natifa griffith, City University of New York- York College

#### **University Center Ballroom - Kiosk 49 Side A**

*Relative Age and Formation of a Phreatomagmatic Diatreme in the Mandamus Igneous Complex, New Zealand*

Mary Connors, Lafayette College

#### **University Center Ballroom - Kiosk 50 Side A**

*The Urban Heat Island Effect and Its Impact on Lichen Abundance and Diversity*  
Austin Adam , Bellarmine University

### **HEALTH SCIENCES**

#### **University Center Ballroom - Kiosk 59 Side B**

*Comparison of Academic Performance Between Rural and Urban Physical Therapy Students*  
Cannon Hanebuth, University of Kentucky

#### **University Center Ballroom - Kiosk 60 Side A**

*Patient and Family Centered Care for Children with Hearing Loss: Clarifying Communication Choices*  
Peyton Pruitt, University of Kentucky

#### **University Center Ballroom - Kiosk 60 Side B**

*Getting to the Heart of Dentistry*  
Colleen Kalp, Westmoreland County Community College

### **University Center Ballroom - Kiosk 61 Side B**

*Mental Health Integration Through Accountable Care Organizations*  
Cassidy Roby, Auburn University

### **HISTORY**

#### **University Center Ballroom - Kiosk 40 Side C**

*Irish Female Criminality and The Analysis of Gendered Sentencing*  
Nichole Mousavizadegan, University of Central Oklahoma

### **INTERNATIONAL STUDIES**

#### **University Center Ballroom - Kiosk 62 Side A**

*Globalization in China: Developing Language and Cultural Understanding Through Study Abroad*  
Katelyn Kannel, University of Wisconsin - Eau Claire

### **KINESIOLOGY & EXERCISE SCIENCE**

#### **University Center Ballroom - Kiosk 57 Side A**

*Effects of Plyometric and Isometric Exercise Programs on 50 Meter Sprint Times in Collegiate Women*  
Mara Fenske, Gustavus Adolphus College

#### **University Center Ballroom - Kiosk 58 Side A**

*Longevity in Athletics: Can Early Sport Specialization Change the Game?*  
Morgan Mason, North Central College

#### **University Center Ballroom - Kiosk 59 Side A**

*The Influence of Dpp-iv and Cd26+ T-cells on Il-6 Following a Doms Protocol in College-aged Participants*  
Elise Mann, Auburn University

### **LINGUISTICS**

#### **University Center Ballroom - Kiosk 62 Side B**

*Varying Vocalization in Consonants in Andalusian Spanish*  
Victor Rojas Garcia, University of Michigan

## Student Poster Session 7 - Fri 1:20pm-2:20pm

### MANAGEMENT

#### **University Center Ballroom - Kiosk 15 Side B**

*Examining the Moderating Effect of Calling Enactment on the Relationship Between Organizational Constraints and Burnout*

Allie McIntire, University of Illinois at Springfield

### MARKETING

#### **University Center Ballroom - Kiosk 15 Side C**

*The Impact of BD-1897 on Athletic Department Budgets and the Student Athletic Fee*

Benjamin Costello, Radford University

### MATHEMATICS

#### **University Center Ballroom - Kiosk 55 Side A**

*Factors Associated with Cognitive Decline in Senior Citizens*

Tu Doan, University of Central Oklahoma

#### **University Center Ballroom - Kiosk 56 Side A**

*NCUR Melanoma Abstract*

Olivia Campos, University of Central Oklahoma

### MECHANICAL ENGINEERING

#### **University Center Ballroom - Kiosk 52 Side A**

*Combustion Characteristics of Ternary Fuel Blends: Pentanol, Butanol and Vegetable Oil*

Bailee Coughlin, University of Minnesota, Duluth

#### **University Center Ballroom - Kiosk 53 Side A**

*Influence of Grain Geometries in Potassium Nitrate and Sucrose Rocket Propellant*

Cameron Kurtz, Embry - Riddle Aeronautical University

#### **University Center Ballroom - Kiosk 54 Side A**

*Optimal Passive Cooling of UV-LED Panels for Agricultural and Space Applications*

John Phung, San Jose State University

### MICROBIOLOGY & IMMUNOLOGY

#### **University Center Ballroom - Kiosk 1 Side C**

*Analysis of Transcriptional Regulation of the Lyme Borrelia Fibronectin-binding Protein BBK32; Promoter Mapping of a Putative Member of the RpoS-regulated Transcriptome*

Mara Baker, Delaware Technical Community College

### **University Center Ballroom - Kiosk 32 Side A**

*Earthworm Calciferous Glands Have Calcite Precipitating Bacteria*  
Lindsey Raker, Minnesota State University, Mankato

### **University Center Ballroom - Kiosk 33 Side A**

*Microbial and Viral Community Analysis of a Polluted Watershed in the Hudson Valley*  
Melody Scudato, Dominican College

### **University Center Ballroom - Kiosk 34 Side A**

*The Effect of Non-Caloric Sweeteners and Sugars on Digestive Tract Microflora*  
Teagan Duran, Lubbock Christian University

### NURSING

#### **University Center Ballroom - Kiosk 51 Side A**

*Ultrasound-Guidance in Difficult Intravenous Access Patients Within the Pediatric Population: An Evidence-Based Approach*

Caitlin Jennings, Capital University

#### **University Center Ballroom - Kiosk 54 Side B**

*Barriers To Blood Sugar Control During Pregnancy: An Integrative Research Review*  
Natalie Ochoa, Lubbock Christian University

#### **University Center Ballroom - Kiosk 56 Side B**

*Interest in Amyloid PET Imaging Among Individuals with MCI and Family Care Partners*  
Caroline Stohler, University of Pittsburgh School of Nursing

#### **University Center Ballroom - Kiosk 57 Side B**

*Preliminary Validation of CAPTURE with UTI Samples*  
Elizabeth Gates, University of Alabama in Huntsville

#### **University Center Ballroom - Kiosk 58 Side B**

*The Efficacy of Narcotic Contracts in Preventing Drug-Seeking Behaviors in Adolescents Experiencing Chronic Pain Related to Sickle Cell Anemia*  
Haley Russotti, Dominican University of California

## Student Poster Session 7 - Fri 1:20pm-2:20pm

### NUTRITION

#### University Center Ballroom - Kiosk 34 Side B

*The Metabolic and Behavioral Effects of Daily Consumption of Caloric and Non-caloric Sweeteners in Adult Male Swiss Webster Mice*  
Erica Johns, Saint Vincent College

### PHILOSOPHY & ETHICS

#### University Center Ballroom - Kiosk 35 Side B

*The Yablo Paradox and Infinitary Reasoning*  
Christian Jensen, University of Minnesota, Twin Cities

### PHYSICAL/OCCUPATIONAL THERAPY/ SPEECH LANGUAGE PATHOLOGY

#### University Center Ballroom - Kiosk 31 Side A

*A Pilot Study on the Effect of a Cat Robot for Patients with Alzheimer's Disease*  
Jenelle Psaledas, Southern New Hampshire University

### PHYSICS

#### University Center Ballroom - Kiosk 31 Side C

*An Advanced Aerogel Packaging Solution for Cold-Chain Biologics Materials Handling*  
Jacob Hadley, University of Memphis

#### University Center Ballroom - Kiosk 32 Side C

*Development and Characterization of Graphene Oxide Composite Materials for Photothermal Therapy*  
Megan Brennan, Hamline University

#### University Center Ballroom - Kiosk 34 Side C

*Profiling of OpenMP Parallelization in Exact Diagonalization*  
Spencer Leeper, University of West Florida

### PHYSIOLOGY

#### University Center Ballroom - Kiosk 30 Side A

*Dietary Nitrate and Pulse Wave Analysis: Preliminary Results*  
Caleb Harrison, Indiana State University

### POLITICAL SCIENCE

#### University Center Ballroom - Kiosk 28 Side A

*Contextualizing Conservative Support for Environmental Policy*  
Tess Candler, Eastern Connecticut State University

### University Center Ballroom - Kiosk 29 Side A

*Pragmatics in the News Media Realm: The Truth About Political Bias*  
Jesus Patino, Lone Star College System The Honors College

### PUBLIC HEALTH

#### University Center Ballroom - Kiosk 26 Side C

*The Relationship Between Limitations in Daily Activities and the Receipt of Social Support Among Cancer Survivors in the U.S.*  
Shelia Johnson, Austin PEAY State University

#### University Center Ballroom - Kiosk 27 Side C

*Determining the Relationship Between Greek and Non-Greek Members and Their Likelihood of Having a Second Social Media Account (Finsta)*  
Olivia Callahan, Miami University

#### University Center Ballroom - Kiosk 28 Side C

*Heavy Metal Analysis of Manure and Feed Samples from Local Farmland in Northwestern Pennsylvania*  
Daniel Owoc, Westminster College

#### University Center Ballroom - Kiosk 29 Side C

*Perceived Importance of Alcohol and Peer Pressure Predict Alcohol Consumption Among College Students*  
Jacqueline Ziegman, Miami University

#### University Center Ballroom - Kiosk 30 Side C

*The Politics of Addiction: Innovative Strategies for Combatting Heroin Addiction in New Jersey*  
Alexis Garretson, George Mason University

### SOCIAL WORK

#### University Center Ballroom - Kiosk 25 Side C

*Experiences of Hispanic Women Navigating the Healthcare System in Rural South Carolina*  
Krista Parenti, Winthrop University

### SOCIOLOGY

#### University Center Ballroom - Kiosk 22 Side C

*Do Siblings Know Best?: The Role of Sibling Approval for Romantic Relationships*  
Deavon Carey, University of Nebraska at Kearney

## **Student Poster Session 8 - Fri 2:40pm-3:40pm**

### **University Center Ballroom - Kiosk 23 Side C**

*Motivations and Outcomes of Volunteers at a Non-student-run Free Clinic*  
Mary Stoddard, University of Utah

### **WOMEN, GENDER, AND SEXUALITY STUDIES**

#### **University Center Ballroom - Kiosk 20 Side C**

*Health, Health Literacy and Healthcare Utilization Among Muslim Women in Utah*  
Mu Pye, University of Utah

#### **University Center Ballroom - Kiosk 21 Side C**

*The Impact of Romantic Relationships on Self- and Partner-Rated Body Satisfaction*  
Grant Filus, University of Wisconsin - La Crosse

### **WORLD LANGUAGES**

#### **University Center Ballroom - Kiosk 31 Side B**

*Linguistic Relativity Hypothesis and the Study of Bilingualism*  
Giovanna Galante, Adelphi University

### **Student Poster Session 8 -**

#### **Fri 2:40pm-3:40pm**

### **ARCHEOLOGY**

#### **University Center Ballroom - Kiosk 2 Side B**

*Interpreting Dietary Patterns from Faunal Collections of the Spanish Royal Presidio of Monterey, 1770-1810*  
Emily Smith, California State University Monterey Bay

### **ARCHITECTURE & INTERIOR DESIGN**

#### **University Center Ballroom - Kiosk 2 Side C**

*Visual Environmental Attributes/ Elements of Wayfinding in Unfamiliar Healthcare Environments*  
Madeleine McKenzie, Appalachian State University

### **ART HISTORY**

#### **University Center Ballroom - Kiosk 1 Side A**

*Geometrical Illusion in the Traditional Kuba Textiles and Contemporary Artworks of Bridget Riley*  
Bridget Moore, University of Central Oklahoma

#### **University Center Ballroom - Kiosk 1 Side B**

*The Blood Libel and the Urban Development of Medieval Paris*  
Olivia Lonetti, Creighton University

### **ASTRONOMY**

#### **University Center Ballroom - Kiosk 3 Side A**

*Binary Stellar Wind Collisions with Orbital Motion*  
Brendan O'Connor, Union College

### **BEHAVIORAL NEUROSCIENCE**

#### **University Center Ballroom - Kiosk 3 Side C**

*Brainwave Signatures for Detecting Malingered Neurocognitive Deficit (mncd)*  
Esias Bedingar, University of Kentucky

#### **University Center Ballroom - Kiosk 4 Side A**

*Empathic Response and Sub-Clinical Psychopathy*  
Mariah Schumacher, University of Minnesota, Duluth

#### **University Center Ballroom - Kiosk 4 Side B**

*Late Adolescent Exposure to Amphetamine Induces Cross Sensitization to Methamphetamine and Susceptibility to Addiction in Adulthood*  
Megan Andres, University of North Georgia

## Student Poster Session 8 - Fri 2:40pm-3:40pm

### **University Center Ballroom - Kiosk 4 Side C**

*Sholl Analysis to Measure the Impact of Environmental Enrichment on Neurons Implicated in Anxiety and Amphetamine Sensitivity*  
Sarah Fischer, University of Massachusetts Boston

### **University Center Ballroom - Kiosk 5 Side A**

*Wnt/β-catenin Signaling Is Necessary for E2-mediated Memory Enhancement*  
Sarah Philippi, University of Wisconsin - Milwaukee

### **BIOCHEMISTRY**

#### **University Center Ballroom - Kiosk 5 Side B**

*Characterization of the Role of the Large and Small Subunits and the Disulfide Bonds on Carbonic Anhydrase's Activity*  
Alexa Deemer, Lafayette College

#### **University Center Ballroom - Kiosk 5 Side C**

*Effects of Varying Concentrations of the FRET Pair, Clover and MRuby2, and Their Corresponding Usage as Fluorescent Proteins in FRET Based Protease Assay in Vitro*  
Fakhra Sultan, Mercer University

#### **University Center Ballroom - Kiosk 6 Side A**

*Identification of Molecular Interactions Within Histone Deacetylase Isozymes for the Development of Potent HDAC2 Inhibitors for the Design of Targeted Cancer Therapies*  
Xavier May, Rhodes College

#### **University Center Ballroom - Kiosk 6 Side B**

*O-GlcNAcylation Controls Cancer Lipid Metabolism Via SREBP-1 Regulation*  
Wiktoria Gocal, Drexel University

#### **University Center Ballroom - Kiosk 6 Side C**

*RNA-metal Interactions and Their Effects on Life*  
Katelyn Unvert, University of Nebraska at Kearney

#### **University Center Ballroom - Kiosk 7 Side A**

*The Effects of Macromolecular Crowding on the Kinetics of Dihydrofolate Reductase*  
Taylor Sheehy, Duquesne University

### **University Center Ballroom - Kiosk 20 Side A**

*Investigation of Possible Inhibitors Against Multidrug-resistant New Delhi Metallo-Beta Lactamase (NDM-1)*  
Sonia Hernandez, University of Texas at Austin

### **BIOLOGICAL ENGINEERING**

#### **University Center Ballroom - Kiosk 7 Side B**

*A Microfluidic Diode for Sorting *C. elegans**  
TAO HONG, Queensborough Community College - CUNY

#### **University Center Ballroom - Kiosk 7 Side C**

*Sema3A Inhibits Small Diameter Myelinated Axons in a Choice Assay with BDNF and NGF Molecular Attractants*  
Elaine Ramirez, University of Texas at Dallas

### **BIOLOGY**

#### **University Center Ballroom - Kiosk 8 Side A**

*Activity-dependent Modulation of Somatosensory Processing in *Drosophila Melanogaster*: Behavior, Development, and Sensory-motor Circuit Physiology*  
Eashwar Somasundaram, University of Kentucky

#### **University Center Ballroom - Kiosk 8 Side B**

*Antimicrobial Peptides Against *Yersinia pseudotuberculosis**  
Brehknaa Gull, George Mason University

#### **University Center Ballroom - Kiosk 8 Side C**

*Biogeography and Population Genetics of the Bull-Kelp *Nereocystis Luetkeana**  
Lily Gierke, University of Wisconsin - Milwaukee

#### **University Center Ballroom - Kiosk 9 Side A**

*Chemotherapeutic Resistant Breast Cancer Cell Lines*  
Keeley Williams, Indiana State University

#### **University Center Ballroom - Kiosk 9 Side B**

*Correlation Between Pre-, Peri- and Post-copulatory Mating Success in the Red Flour Beetle*  
Cristha Edwards, Spelman College

#### **University Center Ballroom - Kiosk 9 Side C**

*Do Male Red Flour Beetles Invest Time and Energy in Mate Guarding?*  
Joi Wright, Spelman College

## Student Poster Session 8 - Fri 2:40pm-3:40pm

### **University Center Ballroom - Kiosk 10 Side A**

*Effects of Plant Diversity on Nitrogen Resorption in Switchgrass and Litter Decay Rates*  
Nicole Bishop, University of Northern Iowa

### **University Center Ballroom - Kiosk 10 Side B**

*Exploring the Mechanism of Defense Gene Priming in Tomato Plants Colonized by Mycorrhizae Fungi*  
Blake Rennie, Bridgewater State University

### **University Center Ballroom - Kiosk 10 Side C**

*Genetic Analysis of Adult and Juvenile Eastern Bluebirds in Northeast Arkansas*  
Erin Langley, Arkansas State University

### **University Center Ballroom - Kiosk 11 Side A**

*Hops: An In-depth Study of Growth*  
Michael Willis, Hampden-Sydney College

### **University Center Ballroom - Kiosk 11 Side B**

*Influences of Nitrate Concentration on the Productivity of Four Brassica Rapa Genotypes*  
Aileen Zebrowski, University of Minnesota, Twin Cities

### **University Center Ballroom - Kiosk 11 Side C**

*Isolation and Analysis of Bacteriophages Collected from the International Space Station*  
Tristan Grams, Carthage College

### **University Center Ballroom - Kiosk 12 Side B**

*MyosinVIA and Actin Bundlers Interact to Alter Drosophila Denticle Morphology*  
Brooke Allen, North Central College

### **University Center Ballroom - Kiosk 12 Side C**

*Pollen Diversity and Gut Bacterial Diversity in Virginia Bumble Bees (*Bombus*)*  
Lynn Bonomo, George Mason University

### **University Center Ballroom - Kiosk 13 Side A**

*Regulation of MLK3 in Ovarian Cancer Cells*  
Batool Mehdi, University of Toledo

### **University Center Ballroom - Kiosk 13 Side B**

*The Effect of Caffeine and Nitrate on Tardigrade Metabolism*  
Carly Winn, Bellarmine University

### **University Center Ballroom - Kiosk 13 Side C**

*The Effects of Invasive Macrophytes on Turtle Community Structure In The Kinnickinnic Watershed*  
Crystal Carpenter, University of Wisconsin - River Falls

## **BIOMEDICAL ENGINEERING**

### **University Center Ballroom - Kiosk 14 Side B**

*Computer-Aided Diagnosis for Hirschsprung's Disease*  
Victoria Madge, Carleton University

### **University Center Ballroom - Kiosk 14 Side C**

*Leveraging Semiconductive MoS<sub>2</sub> Nanosheets Towards Development of Biosensor*  
Ramesh Ghanta, University of Texas at Dallas

### **University Center Ballroom - Kiosk 15 Side A**

*Stem Cell Derived Osteoprogenitors and Their Role in Bone Repair Using Morphogenic Activators*  
George Brownridge III, Dominican University of California

## **BUSINESS/FINANCE/ACCOUNTING**

### **University Center Ballroom - Kiosk 19 Side B**

*The Relationship Between College Experience and Alumni Willingness to Donate to Their University*  
Jamesha Hosea, Clark Atlanta University

## **CELL & MOLECULAR BIOLOGY**

### **University Center Ballroom - Kiosk 19 Side C**

*Characterizing Cardiovascular Defects in an Avian Model of Maternal PKU*  
Kody Harvey, University of Central Oklahoma

### **University Center Ballroom - Kiosk 21 Side A**

*Identification of a Novel Gene That Plays a Role in High Light Tolerance in the Green Micro-alga *Chlamydomonas Reinhardtii**  
Kevin Nguyen, University of West Georgia

### **University Center Ballroom - Kiosk 24 Side A**

*The Role of ADAMTS5 Protease on Outflow Tract Intercalated Cushion Remodeling*  
Lea Russell, College of Charleston

## Student Poster Session 8 - Fri 2:40pm-3:40pm

### **CELLULAR NEUROSCIENCE**

#### **University Center Ballroom - Kiosk 25 Side A**

*Can Microglial Morphology Tell Us About Neuropathology in Chronic Multisystem Illness?*  
Zoe Hinton, East Carolina University

#### **University Center Ballroom - Kiosk 26 Side A**

*Influence of Extracellular Environment on Neural Differentiation*  
Hannah Kling, Arkansas State University

#### **University Center Ballroom - Kiosk 27 Side A**

*Synthesis and Characterization of Antinociceptive Properties of Novel Derivatives of the Active Compound, Incarvillateine, from the Chinese Herb (Incarvillateine Sinesis)*  
Megan Hunke, University of Nebraska at Kearney

### **CHEMISTRY**

#### **University Center Ballroom - Kiosk 20 Side B**

*Ambient Air Particulate Analysis*  
Callie Fischer, University of Wisconsin - Eau Claire

#### **University Center Ballroom - Kiosk 21 Side B**

*Determination of Heavy Metal Uptake in Aquatic Plants by X-Ray Fluorescence*  
Brandon Pippin Pippin, United States Naval Academy

#### **University Center Ballroom - Kiosk 22 Side B**

*Electrodeposition and Characterization of Iron Tris(bipyridine) Crosslinked Elastomeric Films*  
Megan Whitney, Appalachian State University

#### **University Center Ballroom - Kiosk 24 Side B**

*Isolation of Natural Products from Antarctic Coral Species for Application to Drug Discovery*  
Dakota Becker-Greene, University of South Florida

#### **University Center Ballroom - Kiosk 25 Side B**

*Optimization of a Gas Chromatographic Method for the Identification and Quantification of Sucratose in Solution*  
James Horton II, Lubbock Christian University

### **University Center Ballroom - Kiosk 26 Side B**

*Quantitation of Caffeine in Workout Supplements Containing Proprietary Blends Via High Performance Liquid Chromatography*  
Leah Wolf, Bellarmine University

#### **University Center Ballroom - Kiosk 27 Side B**

*Struvite Formation from Simulated Anthropogenic Wastewater and Naturally Occurring Inorganic Magnesium Materials*  
Amanda Leichtfuss, University of Wisconsin - Oshkosh

#### **University Center Ballroom - Kiosk 28 Side B**

*Synthesis and Optimization of Water-soluble Ultra-bright BODIPY Fluorophores*  
John Johnson, North Carolina State University

#### **University Center Ballroom - Kiosk 29 Side B**

*The Application of Thiol-Terminated Silicon to Antifouling*  
Arion Johnson, Paine College

### **CIVIL ENGINEERING**

#### **University Center Ballroom - Kiosk 17 Side B**

*Quantification of Cement's Heat of Hydration*  
Yahaira Marroquin-Villa, University of Texas- Rio Grande Valley

### **CLINICAL PSYCHOLOGY**

#### **University Center Ballroom - Kiosk 32 Side B**

*Am I the Master of My Fate?: The Impact of Mortality Salience and Self-Efficacy on Leadership Perceptions*  
Emillie Noah, Southern Nazarene University

#### **University Center Ballroom - Kiosk 33 Side B**

*Effects of Childhood Experiences on Adult Desire to Parent*  
Sarah Bailey, Dominican University of California

#### **University Center Ballroom - Kiosk 35 Side A**

*Initial Development of an Asian American Female Body Image Measure*  
Eli Hahn, University of Illinois at Springfield

## Student Poster Session 8 - Fri 2:40pm-3:40pm

### **University Center Ballroom - Kiosk 36 Side A**

*Perceptions of Mental Illness and Stigmatizing Attitudes in College Students*  
William Kelner, Auburn University

### **University Center Ballroom - Kiosk 37 Side A**

*The Impact of Gender and Attachment on Emotional Intelligence, Emotional Regulation, and Life Satisfaction in College Students*  
Amanda Costantino, Susquehanna University

### **COGNITIVE NEUROSCIENCE**

#### **University Center Ballroom - Kiosk 36 Side B**

*Echolocation Ability and Auditory Memory*  
Amanda Marks, University of Wisconsin - Parkside

#### **University Center Ballroom - Kiosk 37 Side B**

*Semantic Encoding of Rapidly Presented Images in Children and Adults*  
Sruthi Ramesh, Wayne State University

### **COMMUNICATION SCIENCES AND DISORDERS**

#### **University Center Ballroom - Kiosk 35 Side C**

*Comparing Treatment Methods of Vocal Fatigue in Young Adults*  
Katherine Yetter, University of Wisconsin - Whitewater

### **COMMUNICATIONS**

#### **University Center Ballroom - Kiosk 38 Side B**

*Communicating Social Support*  
Kayla Harasymchuk, Western Carolina University

#### **University Center Ballroom - Kiosk 39 Side B**

*Salisbury University Event App*  
Alison Haley, Salisbury University

### **COMPUTER ENGINEERING**

#### **University Center Ballroom - Kiosk 24 Side C**

*Project ROS*  
Samuel Norman, San Jacinto College Honors Program

### **COMPUTER SCIENCE**

#### **University Center Ballroom - Kiosk 18 Side C**

*Static Detection of Integrity and Confidentiality  
Antipatterns in Mobile Applications*  
John Rocco, Iona College

#### **University Center Ballroom - Kiosk 37 Side C**

*Education Virtual Reality Application*  
Kaitlyn Hitchcock, Widener University

#### **University Center Ballroom - Kiosk 38 Side C**

*Machine Learning With Brain-Inspired Architecture*  
Anton Soloviev, Susquehanna University

#### **University Center Ballroom - Kiosk 39 Side C**

*The State of the Art in Speaker Adaptation for Automatic Speech Recognition*  
Zhejian Wang, Minnesota State University, Mankato

### **ECOLOGY & ORGANISMAL BIOLOGY**

#### **University Center Ballroom - Kiosk 41 Side C**

*Climate Change Impacts on Food Sources of Terrestrial Salamanders in the Northeastern United States*  
Emily Mausteller, Susquehanna University

#### **University Center Ballroom - Kiosk 42 Side C**

*Foraging Efficiency and Learning in Capuchin Monkeys (*Cebus capucinus*)*  
Daniel Herrera, Augustana College

#### **University Center Ballroom - Kiosk 43 Side C**

*Soil Phosphorus in Lowland Tropical Rain Forests - a Constraint for Deep Soil Microbial Activity?*  
Megan Foley, Villanova University

#### **University Center Ballroom - Kiosk 44 Side A**

*Urban Forest Regeneration -- Gap Dynamics in Overton Park*  
Dwight Wilson, Rhodes College

### **EDUCATION**

#### **University Center Ballroom - Kiosk 19 Side A**

*First Steps: The Study of the Impact of Including Dance Education on the Overall Efficacy of Primary School Children with a Focus on English Language Learners*  
Abigail Cash, University of Central Oklahoma

## Student Poster Session 8 - Fri 2:40pm-3:40pm

### **University Center Ballroom - Kiosk 40 Side B**

*A Peer Education Approach to Alcohol and Other Drug Prevention and Intervention for First Year College Students*

Jessica McDaniel, Kennesaw State University

### **University Center Ballroom - Kiosk 41 Side B**

*Cyberbullying: Coping Strategies in Elementary Through High School*

Jenna Macziewski, Minnesota State University, Mankato

### **University Center Ballroom - Kiosk 42 Side B**

*Improved Reading Scores: Does Gender Matter?*

Michael Wurster, Hope College

### **University Center Ballroom - Kiosk 43 Side B**

*Racial-Coping Among African American Students in Academia*

Angel Mims, University of Nevada Las Vegas

## **ELECTRICAL ENGINEERING**

### **University Center Ballroom - Kiosk 17 Side C**

*Design, Assembly, and Testing of a Digital In-Line Holographic Microscope*

Jarrett Anderson, University of Memphis

### **University Center Ballroom - Kiosk 18 Side A**

*Inductive Coupling Solution For Wireless Through-Metal-Wall Sensor Networks*

Jeremy Mattfeld, Eastern Washington University

## **ENGINEERING/ENGINEERING TECHNOLOGY**

### **University Center Ballroom - Kiosk 16 Side B**

*Effect of Binder Saturation and Sintering on Stainless Steel – Hydroxyapatite Biocomposite Manufactured by 3D Printing*

John Ruprecht, Minnesota State University, Mankato

### **University Center Ballroom - Kiosk 16 Side C**

*Synthesis and Characterization of Nano Sensing Devices*

Ibrahim Momoh, Indiana University Purdue University Indianapolis

## **ENGLISH**

### **University Center Ballroom - Kiosk 42 Side A**

*Quest of the Self-Conscious: Cervantes and His Knight*

Rachel Roman, Jacksonville University

## **ENVIRONMENTAL STUDIES & SCIENCES**

### **University Center Ballroom - Kiosk 41 Side A**

*Biologically Available Elements of Soils Infested by Ventenata dubia*

Jared Lamm, Eastern Washington University

### **University Center Ballroom - Kiosk 43 Side A**

*Plant Selection of Mycorrhizal Symbionts in Response to Abiotic Stress and Plant-Plant Competition*

Sarah Ottinger, University of Tennessee at Knoxville

## **EXPERIMENTAL PSYCHOLOGY**

### **University Center Ballroom - Kiosk 44 Side B**

*An Examination of Eye Gaze for Novel and Repeated Faces That Differ in Attractiveness Level*

Toe Aung, Albright College

### **University Center Ballroom - Kiosk 45 Side B**

*Coloring, Not Just for Kids: Testing the Effectiveness of Mandala Coloring in Reducing Anxiety*

Monica Cardenas, Dominican University of California

### **University Center Ballroom - Kiosk 46 Side B**

*Does Participation in Religious Organizations Lead to Better Coping for College Students?*

Jessica Keck, Susquehanna University

### **University Center Ballroom - Kiosk 47 Side B**

*Examining the Mental Health Concerns of Region-Specific U.S. International Students Utilizing University Counseling Center Services*

Jeramiah Gruendemann , University of Wisconsin - Oshkosh

### **University Center Ballroom - Kiosk 48 Side B**

*Interaction Between Prematurity and Presence of Siblings on Emotion Regulation in Preschool Children*

Natalie Low, University of Minnesota, Twin Cities

## Student Poster Session 8 - Fri 2:40pm-3:40pm

### **University Center Ballroom - Kiosk 49 Side B**

*Our Language Influences How We Conceptualize The World: The Effects of Word Order on Mental Representations*

Kevin Wagner, Iowa State University

### **University Center Ballroom - Kiosk 50 Side B**

*Racial Bias in Elementary School Children: Effects of Skin Color and Facial Features*

Maya Rex, University of Southern Mississippi

### **University Center Ballroom - Kiosk 51 Side B**

*Socioeconomic Status, Social Connectedness, and Well-being*

Levi Haven, University of West Florida

### **University Center Ballroom - Kiosk 52 Side B**

*The Effects of Ostracism on Persuasion Susceptibility*

Hannah Stewart, Arkansas State University

### **University Center Ballroom - Kiosk 53 Side B**

*The Role Maternal Reminiscing Style Plays in the Accuracy of Child Reports*

Zehra Mehdi, University of Toledo

## **GEOGRAPHY & EARTH SCIENCES**

### **University Center Ballroom - Kiosk 45 Side A**

*Baseline Water Quality Study of the Haw River and Tributaries Draining into Lake Jordan*

Chanelle McArthur, North Carolina State University

### **University Center Ballroom - Kiosk 46 Side A**

*Concentration and Distribution of PCBs in Sediments in the Fox River, Green Bay and Proposed Novel Porous Material for Remediation of PCBs*

Ryan Lecus, University of Wisconsin - Milwaukee

### **University Center Ballroom - Kiosk 47 Side A**

*Exploring Sense of Place in Adolescents: A Qualitative Approach*

Laura Todd, Elon University

### **University Center Ballroom - Kiosk 48 Side A**

*LiDAR Mapping for Merged Interior and Exterior 3D Modeling*

Earle Isibue, Northern Illinois University

### **University Center Ballroom - Kiosk 49 Side A**

*Research Capabilities of Wisconsin Universities on Impaired Watersheds*

Valerie Hanson, University of Wisconsin - Stout

### **University Center Ballroom - Kiosk 50 Side A**

*Timing Movement of Water Through the Biosphere 2 Rainforest Using Deuterium as an Isotopic Tracer*

Katie Almeda, Bridgewater State University

## **HEALTH SCIENCES**

### **University Center Ballroom - Kiosk 59 Side B**

*Defensive Medicine: A Comparison of Independent and Hospital Affiliated Physicians*

Tyler Friedman, Florida International University

### **University Center Ballroom - Kiosk 60 Side A**

*Persistent Organic Pollutants Increase Rage Signaling and Oxidative Stress in Diabetic Hearts*

Jackson Coole, Mississippi State University

### **University Center Ballroom - Kiosk 60 Side B**

*Good Mother, Good Wife: Sociocultural Factors Influencing Family Planning Uptake in Kumasi, Ghana*

MeeSoh Bossard, University of Chicago

### **University Center Ballroom - Kiosk 61 Side B**

*Monoamine Oxidase Assay for PET Radiotracer Development*

Jonathan Pham, University of Michigan

## **HISTORY**

### **University Center Ballroom - Kiosk 40 Side C**

*John Dunn: Traitor, Opportunist, or Product of Circumstance?*

Kyle Filter, George Mason University

## **INTERNATIONAL STUDIES**

### **University Center Ballroom - Kiosk 62 Side A**

*Hip Hop in Japan*

Alexis Jenkins, George Mason University

## Student Poster Session 8 - Fri 2:40pm-3:40pm

### **KINESIOLOGY & EXERCISE SCIENCE**

#### **University Center Ballroom - Kiosk 51 Side A**

*Training Volume and Performance Relationships in Female Cross Country Runners: A Recipe for Success*  
Alanna Varnas, Carthage College

#### **University Center Ballroom - Kiosk 57 Side A**

*Examining Testing of VO2Max for Women Collegiate Soccer Players*  
Michaela Supple, Arkansas State University

#### **University Center Ballroom - Kiosk 58 Side A**

*Motivational Factors That Affect CrossFit Training Based on Years of Participation*  
Allyson Box, Kennesaw State University

#### **University Center Ballroom - Kiosk 59 Side A**

*The Relationship Between ACL Injury Risk And Plyometric Training*  
Hannah Duff, Radford University

### **LITERATURE**

#### **University Center Ballroom - Kiosk 62 Side B**

*The Relationship Between Chekhov's Works and the Natural World*  
Bradley Britvich, California University of Pennsylvania

### **MANAGEMENT**

#### **University Center Ballroom - Kiosk 15 Side B**

*How Japanese People Can Show Leadership?: Effects of Horizontal Individualistic Orientation on Task- and Relationship-Oriented Leadership*  
Rio Fukuoka, Musashino University

### **MARKETING**

#### **University Center Ballroom - Kiosk 15 Side C**

*What Makes Consumer Loyal to Certain Brands?*  
Nhan Le, University of Illinois at Springfield

### **MATHEMATICS**

#### **University Center Ballroom - Kiosk 55 Side A**

*A Statistical Analysis of the Factors Related to Serving in Combat Among Veterans Receiving Home Health and Hospice Care*  
Jacintha Lawrence, University of Central Oklahoma

### **University Center Ballroom - Kiosk 56 Side A**

*Numerical Modeling, Simulation, and Parameter Estimation with Water Quality Data*  
Allison Frideres, Simpson College

### **MECHANICAL ENGINEERING**

#### **University Center Ballroom - Kiosk 16 Side A**

*Selective Positioning of Cellulose Nanocrystals in Discontinuous Fiber Composites*  
Evan Toth, Northeastern University

#### **University Center Ballroom - Kiosk 18 Side B**

*A Study of Thermal Degradation Kinetics of PVA Matrix and MoS<sub>2</sub>*  
Celeste Robert, Norwich University

#### **University Center Ballroom - Kiosk 53 Side A**

*Integrated Computational Design of Tunable 3D CNT/Graphene Hybrid Nanomaterials*  
Jordan Garcia, University of Kentucky

#### **University Center Ballroom - Kiosk 54 Side A**

*Effect of key factors contributing to cross-programming in RFID multi-tag applications*  
Ibrahim Appleton, University of Kentucky

### **MICROBIOLOGY & IMMUNOLOGY**

#### **University Center Ballroom - Kiosk 32 Side A**

*Effect of Transportation Stress on Whole Blood Gene Expression of Cytokines in Horses*  
Mary Eastham, Asbury University

#### **University Center Ballroom - Kiosk 33 Side A**

*Pediatric Plaque Psoriasis: Targeting IL-17A and IL-17F Pathways, Keratinocytes, and TH17 Cells with Combination Therapy of Etanercept and Intermittent Narrowband Ultraviolet-B Phototherapy*  
Amulya Kotha, Virginia Commonwealth University

#### **University Center Ballroom - Kiosk 34 Side A**

*The Effect of the Hydrolytic Enzyme Dispersin B on Hybrid Biofilms of *Staphylococcus Aureus* and *Candida Albicans**  
Nathan Lee, Guilford College

## Student Poster Session 8 - Fri 2:40pm-3:40pm

### MUSIC

#### **University Center Ballroom - Kiosk 1 Side C**

*Why Copyright Is Copy-wrong for the Music Industry*  
Jessica Rinehart, University of the Pacific

### NURSING

#### **University Center Ballroom - Kiosk 54 Side B**

*Bottled Vs. Non-Bottled Water: An Investigation of Drinking Preferences Among College Students*  
Hannah McLendon, Georgia Southern University

#### **University Center Ballroom - Kiosk 55 Side B**

*Evidence Based Approaches to Pressure Injuries in Long-Term Care Facilities: Education Demands Regarding Staging, Cost, & Nutrition*  
DeAnna Beachum, University of Memphis

#### **University Center Ballroom - Kiosk 56 Side B**

*Is Dental Hygiene a Mitigating Factor in Cases of Dementia?*  
Quinn Deeds , Duquesne University

#### **University Center Ballroom - Kiosk 57 Side B**

*Preschool Children: What They Know About Asthma and How They Learn*  
Adaya Troyer , University of Tennessee at Knoxville

### NUTRITION

#### **University Center Ballroom - Kiosk 34 Side B**

*Varying Levels of Ferritin Within Normal Ranges Affect Hemoglobin and Inflammatory Markers in Division I Cross-Country Runners*  
Benjamin Keaton, Weber State University

#### **University Center Ballroom - Kiosk 35 Side B**

*"Fortification of Sourdough with Lupin Bean Flour to Increase Protein and Fiber Content of Wheat Bread"*  
danielle morrison, University of Central Oklahoma

### PHYSICAL/OCCUPATIONAL THERAPY/ SPEECH LANGUAGE PATHOLOGY

#### **University Center Ballroom - Kiosk 31 Side A**

*Comparing the Articulatory Kinematics & Acoustic Vowel Space Between Healthy & Apraxic Speakers*  
Taylor Robbins, University of Toledo

### PHYSICS

#### **University Center Ballroom - Kiosk 31 Side C**

*Analysis of Radon Tests on a Sample Storage System for Ultra-Low Background Counting Stations at the Sanford Underground Research Facility*  
Kayla Spiel, Black Hills State University

#### **University Center Ballroom - Kiosk 32 Side C**

*DFT Investigation for Low-energy Structures of 22-Atom and 23-atom Boron Clusters*  
Kevin Francis, University of West Florida

#### **University Center Ballroom - Kiosk 33 Side C**

*Investigation of Optical Properties of CdSe/ZnS Quantum Dots Under High Pressure*  
Joshua Harwell, University of West Georgia

### PHYSIOLOGY

#### **University Center Ballroom - Kiosk 30 Side A**

*Differential Effects of Isoproterenol and Omecamtiv Mecarbil on the Contractile Properties of Unloaded Myocytes*  
Joslyn Isaac, University of Kentucky

### PUBLIC HEALTH

#### **University Center Ballroom - Kiosk 27 Side C**

*Difficulty in Diagnosing Identical Symptoms Caused by the Recombinant Bovine Growth Hormone (rBGH) and Lactose Intolerance and the Need for Longitudinal Research*  
Mrudula Bandaru, Virginia Commonwealth University

#### **University Center Ballroom - Kiosk 28 Side C**

*How Do Some Elder Champions Explain Their Experience With Optimal Aging?*  
Sarah Pease , University of Wisconsin - La Crosse

#### **University Center Ballroom - Kiosk 30 Side C**

*Unusual Alcohol Consumption Methods and Risky Drinking*  
Laura Roberts, Miami University

### SOCIAL WORK

#### **University Center Ballroom - Kiosk 25 Side C**

*Healthcare Disparities Among Transgender Individuals*  
Jacqueline Murray, University of Memphis

## **Student Poster Session 9 - Fri 4:00pm-5:00pm**

### **SOCIOLOGY**

#### **University Center Ballroom - Kiosk 21 Side C**

*"What Do You Even Do with That Major": Influences in the Sociology Major Declaration Process*  
Samantha Lubliner, Elon University

#### **University Center Ballroom - Kiosk 22 Side C**

*Ebola; Not Just a Biological Problem but a Sociological One Too*  
Temiloluwa Lawson, University of Wisconsin - River Falls

#### **University Center Ballroom - Kiosk 23 Side C**

*Parents' Health Literacy and Reactions to the American Academy of Pediatrics' Safe Sleep Guidelines*  
Lizbeth Lopez, University of Wisconsin - Milwaukee

### **SPORT MANAGEMENT**

#### **University Center Ballroom - Kiosk 31 Side B**

*Social Support Provided to Injured Student-Athletes*  
Alexis de Groot , Elon University

### **Student Poster Session 9 - Fri 4:00pm-5:00pm**

### **ANTHROPOLOGY**

#### **University Center Ballroom - Kiosk 1 Side C**

*A Heroic Veteran's Last Stand in Ancient Abdera*  
Julian McBride, Adelphi University

#### **University Center Ballroom - Kiosk 2 Side A**

*On the Significance of Human Skeletal Preservation and Conservation Efforts in BioArchaeological Research: The Case of Neolithic Aposelemis Site in Crete, Greece*  
Lynne Hundhammer, Adelphi University

### **ARCHEOLOGY**

#### **University Center Ballroom - Kiosk 2 Side B**

*Mapping Mark and Erasure: Siting Parish Architecture in Medieval Rome*  
Allegra Ward, University of Michigan

### **ART HISTORY**

#### **University Center Ballroom - Kiosk 1 Side A**

*Golden Age Spanish Still Life Paintings and Las Islas Filipinas: A Study on the Link Between the Still Life Genre and Colonialism*  
Olivia Musgrove, University of Central Oklahoma

#### **University Center Ballroom - Kiosk 1 Side B**

*The Power of Visual Novels to Evoke Emotions*  
Kent Lui, University of Michigan

### **ASTRONOMY**

#### **University Center Ballroom - Kiosk 3 Side A**

*Compiling Archived Spectral Data of Exoplanetary Systems to Search for Trends in the Atmospheric Composition of Hot Jupiters*  
Troy Maloney, Humboldt State University

### **BEHAVIORAL NEUROSCIENCE**

#### **University Center Ballroom - Kiosk 3 Side B**

*17 $\beta$ -Estradiol Activates the Wnt/ $\beta$ -catenin Pathway in the Dorsal Hippocampus of Ovariectomized Female Mice*  
Molly Kiefer, University of Wisconsin - Milwaukee

## Student Poster Session 9 - Fri 4:00pm-5:00pm

### **University Center Ballroom - Kiosk 3 Side C**

*Characterizing a Rat Model of Risky Decision-making*  
Haleigh Joyner, University of Memphis

### **University Center Ballroom - Kiosk 4 Side A**

*Exercise: Blocking Negative Effects of Social Isolation Stress in an Animal Model*  
Miranda Cox, Northern Illinois University

### **University Center Ballroom - Kiosk 4 Side B**

*Long-Term Neuroplastic Effects of Constraint-Induced Movement Therapy in Multiple Sclerosis*  
Joshua Purvis, University of Alabama at Birmingham

### **University Center Ballroom - Kiosk 4 Side C**

*Steer Clear of Turning the LOL into an OMG: Distractions Delay Reactions to Visual Cues*  
Emily Burrage, Bay Path College

## **BIOCHEMISTRY**

### **University Center Ballroom - Kiosk 5 Side A**

*A Multidisciplinary Approach to Cancer Treatment: Computational-Guided Discovery of Novel PRMT5 Inhibitors*  
Joshua Ong, Ohio State University

### **University Center Ballroom - Kiosk 5 Side B**

*Characterization of the *Thermus thermophilus* Transcriptional Regulator PaaR by the Combinatorial Approach REPSA*  
James Cox, Kennesaw State University

### **University Center Ballroom - Kiosk 5 Side C**

*Electrical Wiring of Intracellular Signaling Through Calmodulin: A Biological Messenger*  
Amro AlAshi, Florida International University

### **University Center Ballroom - Kiosk 6 Side A**

*Identifying PRC2 EED and PRC1 CBX7 Gene Recombination in Mice*  
Tanjeev Ahmad, University of Michigan

### **University Center Ballroom - Kiosk 6 Side B**

*Optimization of an Assay for Ribonucleotide Reductase Activity*  
Nicholas Malcolm, University of Wisconsin - Parkside

### **University Center Ballroom - Kiosk 7 Side A**

*The Role of PDAT1 in the Accumulation of Healthy Fatty Acids in Seed Oil of Transgenic *Arabidopsis* Plants*  
David Sliman, University of Southern Mississippi

## **BIOLOGICAL ENGINEERING**

### **University Center Ballroom - Kiosk 7 Side B**

*A New Method for Early Diagnosis of Colon Cancer Using Fluorescence Excitation-Scanning Hyperspectral Imaging*  
Malvika Lall, University of South Alabama

### **University Center Ballroom - Kiosk 7 Side C**

*The Effect of Technology on the Colorblind Community*  
Sneha Suresh, Virginia Commonwealth University

## **BIOLOGY**

### **University Center Ballroom - Kiosk 8 Side A**

*Acute Effects of Hyperglycemia on Zebrafish Peripheral Nerves in a Genetic-chemical Ablation Model*  
Julia Howell, Salisbury University

### **University Center Ballroom - Kiosk 8 Side B**

*Antiprotozoal Effects of the Tomato Tetrasaccharide Glycoalkaloid Tomatine and the Aglycone Tomatidine on Mucosal Trichomonads*  
Jenny Liu, University of the Pacific

### **University Center Ballroom - Kiosk 8 Side C**

*Bioinformatic Analysis of the D1R and H3L Homologs from the *D. longicaudata* Entomopoxvirus*  
Mitchell Anderson, Eastern Washington University

### **University Center Ballroom - Kiosk 9 Side A**

*CHO Cell viability When Exposed to *Ginkgo biloba**  
Anna Platt, Tulsa Community College

### **University Center Ballroom - Kiosk 9 Side B**

*Correlation of Handedness & Ear Preference in Gray Treefrogs*  
Juan Orjuela, University of Wisconsin - Milwaukee

## Student Poster Session 9 - Fri 4:00pm-5:00pm

### **University Center Ballroom - Kiosk 9 Side C**

*Does a Single Amino Acid Substitution in the Ligand Binding Domain of the Teleost Estrogen Receptor ER-alpha Alter Its Binding Affinity to the Estrogenic Mycotoxin, Zearalenone?*

Kaela Payne, North Carolina State University

### **University Center Ballroom - Kiosk 10 Side A**

*Effects of Variations of Insulin Levels on Developing Xenopus laevis Embryos*

Andrew Taylor, California University of Pennsylvania

### **University Center Ballroom - Kiosk 10 Side B**

*Exploring the Role of RAP2.6L and ANAC071 in Root-Knot Nematode Infection of Arabidopsis*

Patricia Vequetini, Bridgewater State University

### **University Center Ballroom - Kiosk 10 Side C**

*Genetic Basis for Root Architectural and Seed Size Traits in Arabidopsis thaliana: A Quantitative Synthesis*

Bravada Hill, College of Charleston

### **University Center Ballroom - Kiosk 11 Side A**

*Host Range Studies, Growth Experiments and Molecular Identification of Phytophthora Boehmeriae: A New Invasive Plant Pathogen Found at Dominican University of California*

Briana Chavez, Dominican University of California

### **University Center Ballroom - Kiosk 11 Side B**

*Investigating C. elegans Dopamine Neuron-enriched Genes Linked to Human Disorders*

Jiah Toms, Fisk University

### **University Center Ballroom - Kiosk 11 Side C**

*Isolation and Characterization of Phage Infecting the Bacteria Host, Corynebacterium*

Nellie Baghaei, University of Alabama at Birmingham

### **University Center Ballroom - Kiosk 12 Side A**

*Mapping a Novel Bang-Sensitive Gene*

Gautam Kanakamedala, Moravian College

### **University Center Ballroom - Kiosk 12 Side B**

*Net Primary Production of Microspora*

Christina Sauer, Augustana College

### **University Center Ballroom - Kiosk 12 Side C**

*Potential Links Between the Sixlined Racerunner, Cnemidophorus Sexleatus, and Arachnid Diversity in a Northern Illinois Sand Dune Habitat*

Meghan Price, University of St. Francis

### **University Center Ballroom - Kiosk 13 Side A**

*Resting Behavior of Galapagos Sea Lions at High and Low Tides on Two Beaches, Baquerizo Moreno, Galapagos Islands, Ecuador*

Karly Betterman, College of Saint Benedict/ St. John's University

### **University Center Ballroom - Kiosk 13 Side B**

*The Effect of Habitat in the Response of an Electric Fish to an Intruder*

Ataya Spears, Spelman College

### **University Center Ballroom - Kiosk 13 Side C**

*The Effects of Railroads on the Soil Microbiome*

Mitchel Kanter, Elon University

## **BIOMEDICAL ENGINEERING**

### **University Center Ballroom - Kiosk 14 Side B**

*Controlled PZP Release Via Biocompatible Capsules*

Nayan Mandan, Ohio State University

### **University Center Ballroom - Kiosk 14 Side C**

*Localized Drug Delivery Using 0% Ag Calcium Phosphate Nanoparticles*

Hamza Ahmed, University of Memphis

## **BUSINESS/FINANCE/ACCOUNTING**

### **University Center Ballroom - Kiosk 19 Side A**

*Estimating the Magnitude of Food Waste and Hunger in Utah*

Jennifer Neal, Weber State University

### **University Center Ballroom - Kiosk 19 Side B**

*What Drives Real Estate Prices in the City of Milwaukee?*

Quinn Stevenson, Carthage College

## Student Poster Session 9 - Fri 4:00pm-5:00pm

### CELL & MOLECULAR BIOLOGY

#### University Center Ballroom - Kiosk 19 Side C

*Comparative Analysis of Astaxanthin Production, Through Genetic Modification and Manipulation of Growth Factors, by the Microalgae Genera: Chlamydomonas, Chlorella, Haematococcus, Nannochloropsis*  
Vasupradha Vasudevan , Lone Star College System The Honors College

#### University Center Ballroom - Kiosk 20 Side A

*Extracellular Vesicle MiR-221 as a Driver of Lung Cancer Metastasis.*  
Devine Jackson, Ohio State University

#### University Center Ballroom - Kiosk 21 Side A

*Identification of Small Molecule Activators of the Unfolded Protein Response (UPR) in Leukemia Cells*  
Nour Mahmoud, Wayne State University

#### University Center Ballroom - Kiosk 22 Side A

*mEAK-7 Functions Downstream of Rag Proteins to Regulate mTORC1 Signaling in Human Cancer*  
Fatima Haidar, University of Michigan

#### University Center Ballroom - Kiosk 23 Side A

*Silencing PIF1 and PIF2 in the Pathogenic Yeast, Cryptococcus Neoformans*  
Samuel Walter, Western Carolina University

#### University Center Ballroom - Kiosk 24 Side A

*Toxicology Risk Assessment of Anti-miR-155 Therapeutics*  
Oscar Wu, Texas Tech University

### CELLULAR NEUROSCIENCE

#### University Center Ballroom - Kiosk 25 Side A

*Disruption of the Endosomal-sorting Pathway Delays Peripheral Nerve Myelination*  
Tina Tian, University of Alabama at Birmingham

#### University Center Ballroom - Kiosk 26 Side A

*Kv1.3 and Insulin Receptor Localization in Developing Hypothalamic Nuclei Governing Energy Homeostasis*  
Warren Yacawych, Norwich University

### University Center Ballroom - Kiosk 27 Side A

*Systems Genetics of Optic Nerve Damage*  
Andrew Stiemke, University of Memphis

### CHEMICAL ENGINEERING

#### University Center Ballroom - Kiosk 16 Side A

*Photocatalytic Mesoporous Titania Thin Films on Porous Substrate Through the Evaporation-Induced Self-Assembly Method*  
Christian Rust, North Carolina State University

### CHEMISTRY

#### University Center Ballroom - Kiosk 20 Side B

*Analysis of Complex Molecules Utilizing a 60 MHz FT NMR: How Far Can We Push the Magnet?*  
Ana Quintero, Our Lady of the Lake University

#### University Center Ballroom - Kiosk 21 Side B

*Determining the Intrinsic Reaction Pathways of Alcohol-Solvated Alkaline Earth Metal Cations in the Gas Phase*  
Sarah Sheffield, Duquesne University

#### University Center Ballroom - Kiosk 22 Side B

*Elucidating the Role of the 4-coumarate:CoA Ligase Enzyme in Plant Cell Wall Biosynthesis*  
Wesley Morioka, University of Wisconsin - Oshkosh

#### University Center Ballroom - Kiosk 23 Side B

*Growth of Single Crystal Topological Insulator BiSbTeSe2*  
Suzanne Petryk, Cornell University

#### University Center Ballroom - Kiosk 24 Side B

*Isotopic Dependence of the Hydrogen-transfer-triggered Methyl-group Rotation in 5-methyltropolone*  
Alyssa Johnson, College of Charleston

#### University Center Ballroom - Kiosk 25 Side B

*Optimization of Gold Nanoparticle Aptamer-Based Sensor To Detect Boar Taint*  
Nana Frimpong, Carleton University

#### University Center Ballroom - Kiosk 27 Side B

*Study of Supramolecular Hydrogen Bonded Mesogenic Networks*  
Abdulghani Mounir, University of Wisconsin - Eau Claire

## Student Poster Session 9 - Fri 4:00pm-5:00pm

### **University Center Ballroom - Kiosk 28 Side B**

*Synthesis and Purification of Biocompatible Nanoparticles for Protein Dynamic Studies*  
Ashley Lato, University of Wisconsin - Eau Claire

### **University Center Ballroom - Kiosk 29 Side B**

*The Determination of Pesticide Residues in Vegetable Samples*  
Emily Bullington, Georgia College and State University

### **University Center Ballroom - Kiosk 30 Side B**

*Transition Metal Complexes with Promising Applications in Molecular-Based Materials*  
Justin Wedal, University of Wisconsin - La Crosse

### **CLINICAL PSYCHOLOGY**

#### **University Center Ballroom - Kiosk 33 Side B**

*Ethnic Identity Statuses and Latino/a Mental Health Outcomes*  
Roselee Ledesma, Marquette University

#### **University Center Ballroom - Kiosk 35 Side A**

*Intra-Individual and Cross-Partner Association Between Depression and Intimacy Among Cohabitating and Married Couples*  
Andrea Gorrondon, University of Tennessee at Knoxville

#### **University Center Ballroom - Kiosk 36 Side A**

*Personality Style and Mate Retention*  
Sabatina Mauro, Adelphi University

#### **University Center Ballroom - Kiosk 37 Side A**

*The Impact of Marital Status and Children on Women's Adjustment to Incarceration*  
Rachel Graham, Eastern Washington University

### **COGNITIVE NEUROSCIENCE**

#### **University Center Ballroom - Kiosk 2 Side C**

*Using fMRI to Explore the Neural Basis of Anticipation After Implicit Distributional Learning*  
Danlei Chen, University of Rochester

### **University Center Ballroom - Kiosk 36 Side B**

*Exploring Retrieval-Induced Forgetting for Argumentative Texts*  
Amber Shedd, University of Memphis

### **University Center Ballroom - Kiosk 37 Side B**

*Stimulus Discrimination as a Function of Temporal Frequency*  
Alexa Williams, Christopher Newport University

### **COMMUNICATION SCIENCES AND DISORDERS**

#### **University Center Ballroom - Kiosk 35 Side C**

*Grammar Knowledge & Instructional Methodologies in a Speech-Language Pathology Curriculum*  
Makenzy Hamon, University of Central Oklahoma

### **COMMUNICATIONS**

#### **University Center Ballroom - Kiosk 38 Side B**

*Conflict Management Through Social Media in Natural Disaster Crises*  
Tessa Lewis Polsky, Ithaca College

#### **University Center Ballroom - Kiosk 39 Side B**

*Soccer as a Manifestation of Cultural Identity*  
Abel Richards, University of Wisconsin - Whitewater

### **COMPUTER ENGINEERING**

#### **University Center Ballroom - Kiosk 24 Side C**

*Serious Virtual Environments As A Requirements Elicitation Tool To Design For Special Populations*  
Jared Gibson, Kennesaw State University

### **COMPUTER SCIENCE**

#### **University Center Ballroom - Kiosk 18 Side C**

*An Online Platform for Assessing Job Seeker - Employer Compatibility*  
Kerri Sexton, Iona College

#### **University Center Ballroom - Kiosk 37 Side C**

*Evaluation of a 6DOF Perception System*  
Andrea Acosta, Loyola University Maryland

## Student Poster Session 9 - Fri 4:00pm-5:00pm

### **University Center Ballroom - Kiosk 38 Side C**

*Methods for Identifying Brand Logos in Images Shared on Social Media*  
Rachel Malloy, Villanova University

### **ECOLOGY & ORGANISMAL BIOLOGY**

#### **University Center Ballroom - Kiosk 41 Side C**

*Do Earthworms Care Where the Animals "go?"*  
Benjamin Schupp, University of Wisconsin - Eau Claire

#### **University Center Ballroom - Kiosk 42 Side C**

*Histopathology of Corals Subjected to Explosive Materials*  
Valerie Nguyen, George Mason University

#### **University Center Ballroom - Kiosk 43 Side C**

*Sublethal Effects of Simulated Climate Change on Lentic Aquatic Invertebrate Assemblages*  
Nicholas Bielski, University of Wisconsin - Parkside

#### **University Center Ballroom - Kiosk 44 Side A**

*Video Analysis of Native and Nonindigenous Fish-Predator Impacts on Florida Apple Snails (*Pomacea paludosa*)*  
Tabitha Siegfried, University of West Florida

### **ECONOMICS**

#### **University Center Ballroom - Kiosk 39 Side A**

*Conflicts of Stakeholder Salience: Profit Allocation in the Retail and Manufacturing Industries*  
Michael Mingo-Dabney, George Mason University

#### **University Center Ballroom - Kiosk 61 Side A**

*Subsidies and Obesity*  
Cynthia Stapleton, University of Central Oklahoma

### **EDUCATION**

#### **University Center Ballroom - Kiosk 38 Side A**

*A Comparative Analysis of Best Teaching Practices Nationally and Internationally*  
Lauren Riedeman, University of Wisconsin - River Falls

#### **University Center Ballroom - Kiosk 40 Side B**

*A Study in Robot Instruction for Elementary Baton Twirling*  
Alicia Tilsley, Southern New Hampshire University

### **University Center Ballroom - Kiosk 41 Side B**

*Differentiated Instruction: Preparing All Students for Success*  
Katherine Carroway, University of Central Oklahoma

#### **University Center Ballroom - Kiosk 42 Side B**

*K-12 Education Mission Fulfillment: Evaluation of Charter School Parent Perception*  
Tess Kendall, Weber State University

#### **University Center Ballroom - Kiosk 43 Side B**

*Self-Determination Skills: Are Ready for Life Students Prepared for Their Future?*  
Mikayla Freyling, Hope College

#### **University Center Ballroom - Kiosk 44 Side C**

*The Impact of Teaching Social Skills on the Social Competence of Students with Exceptional Learning and Behavior Needs*  
Regan May, Arkansas State University

### **ELECTRICAL ENGINEERING**

#### **University Center Ballroom - Kiosk 17 Side C**

*Design and Optimization of a Wearable Thermoelectric Generator for Body Heat Harvesting*  
Haywood Hunter, North Carolina State University

#### **University Center Ballroom - Kiosk 18 Side A**

*Load Profile : Testbench for Home Energy Management System Research*  
Afsana Chowdhury, North Carolina State University

### **ENGLISH**

#### **University Center Ballroom - Kiosk 42 Side A**

*Refugee Narratives and the Meaning of Home*  
Jenna Kersten, Siena College

### **ENTREPRENEURSHIP**

#### **University Center Ballroom - Kiosk 34 Side B**

*A Case Study Assessment of Access to Healthcare Services Among Destitute Women and Vulnerable Children in Addis -ababa: for the Establishment of Community-based Non-profit Organization*  
Josephine Gardner, Elon University

## Student Poster Session 9 - Fri 4:00pm-5:00pm

### ENVIRONMENTAL ENGINEERING

#### University Center Ballroom - Kiosk 17 Side A

*Quantifying Isobutane Leakage Rates from Binary Geothermal Power Plants*  
Lucia Mallozzi, Suffolk County Community College

### ENVIRONMENTAL STUDIES & SCIENCES

#### University Center Ballroom - Kiosk 41 Side A

*Correlates of Dung Beetle Introductions in Australia*  
Cassidy Levy, Elon University

#### University Center Ballroom - Kiosk 43 Side A

*Precision Acoustic Source Localization Using an Affordable Homemade Hydrophone Array in Shallow Water Marine Environments for the Purposes of Tracking Tagged Macrofauna*  
Alexander Simpson, United States Coast Guard Academy

### EXPERIMENTAL PSYCHOLOGY

#### University Center Ballroom - Kiosk 44 Side B

*Animals Make Us Humane: Evaluating the Effectiveness of a Humane Education Summer Camp at the Marin Humane Society*  
Danielle Davis, Dominican University of California

#### University Center Ballroom - Kiosk 45 Side B

*Comparison of the Stimulus Set Size on the Efficacy and Efficiency of Acquisition*  
Meagan Sumter, University of Wisconsin - Milwaukee

#### University Center Ballroom - Kiosk 47 Side B

*Exploring the Relationship Amongst Sex, Personality Traits, and Cognitive Task Performance*  
Heather Kissel, Bellarmine University

#### University Center Ballroom - Kiosk 48 Side B

*Interpersonal Styles and Writing Centers*  
Zoey Wilson, Wittenberg University

#### University Center Ballroom - Kiosk 49 Side B

*Overcoming Spontaneous Trait Inferences Through Education*  
Maria Ammer, University of Wisconsin - Superior

### University Center Ballroom - Kiosk 50 Side B

*Reaction to Behaviors*  
Katrina Scarimbolo, State University of New York-New Paltz

### University Center Ballroom - Kiosk 51 Side B

*Student Involvement in Diverse Actions and Perceived Campus Climate*  
Emilee Kesler, University of North Georgia

### University Center Ballroom - Kiosk 52 Side B

*The Effects of Perceived Peer Support on Depressive Symptoms in Victims of Bullying*  
Sarah Stewart, University of Kentucky

### University Center Ballroom - Kiosk 53 Side B

*Unlocking Moral Reasoning Through Personality Traits*  
Sidney Dayag, Lone Star College System The Honors College

### GEOGRAPHY & EARTH SCIENCES

#### University Center Ballroom - Kiosk 45 Side A

*Broken Fossil Fragments as Useful Information in Paleoecology of Ancient Environments*  
Jessica Reukema, University of Wisconsin - Whitewater

#### University Center Ballroom - Kiosk 46 Side A

*Concentration of Dissolved Inorganic Solids and Fecal Coliform Bacteria in Natural Springs of Central New York*  
Tara Perry, Ithaca College

#### University Center Ballroom - Kiosk 47 Side A

*Geochemical Analysis of Deadman Creek*  
Keylin Huddleston, Eastern Washington University

#### University Center Ballroom - Kiosk 48 Side A

*Looking Back at the Milwaukee River Project 2004 - 2016*  
Kathryn Immler, Milwaukee Area Technical College

#### University Center Ballroom - Kiosk 49 Side A

*Rising Above the Ash: An Analysis of Ash Tree Death Using Drone Technology*  
Megan Gjertsen, Trinity Christian College

## Student Poster Session 9 - Fri 4:00pm-5:00pm

### HEALTH SCIENCES

#### University Center Ballroom - Kiosk 60 Side A

*Pharmacogenomics and the Metabolic Side Effects of Schizophrenia*  
Andrew Jaeger, University of Michigan

#### University Center Ballroom - Kiosk 60 Side B

*Health or Harm?: The Role of Fitness Technology on Smart and Safe Drinking Choices*  
Jennifer Kelleher, Miami University

### HISTORY

#### University Center Ballroom - Kiosk 28 Side A

*Exploring Political Factions in Chinese History Using GIS-based Social Network Analysis: A Case Study in Middle-late Northern Song Dynasty, 1068 – 1126 A.D.*  
Yao Xu, Ohio State University

#### University Center Ballroom - Kiosk 40 Side C

*The 1918–19 Influenza Pandemic in Mahoning County, Ohio: Social and Spatial Patterns of Mortality*  
Andrew Henley, Westminster College

### INTERNATIONAL STUDIES

#### University Center Ballroom - Kiosk 62 Side A

*Immigration Discourse in the European Parliament During the Syrian Civil War and Its Effect on Incidents of Border Violence*  
Samuel Woods, American University

### KINESIOLOGY & EXERCISE SCIENCE

#### University Center Ballroom - Kiosk 51 Side A

*Validity of the Fitbit® Distance Traveled Feature Among Multiple Speed Trials*  
Christina Marton, Gustavus Adolphus College

#### University Center Ballroom - Kiosk 57 Side A

*Exercise and Resilience: Does Exercise Influence How We Handle, Bounce Back From, and Adapt to Stress?*  
Caroline Kruse, Elon University

#### University Center Ballroom - Kiosk 58 Side A

*National Study on High School Athletic Practice/Event Emergency Action Plans (EAP)*  
Micah Stall, University of Nebraska at Kearney

### University Center Ballroom - Kiosk 59 Side A

*The Relationship Between Torso and Lower Limb Length Ratio and Forward Head Posture*  
Andrew Jeon, Gustavus Adolphus College

### LITERATURE

#### University Center Ballroom - Kiosk 62 Side B

*Manhood and War Making: The Literary Response to the Radicalization of Masculinity for the Purposes of WWI Propaganda*  
Samuel Hersh, Kent State University

### MANAGEMENT

#### University Center Ballroom - Kiosk 15 Side B

*How Will Technology Change Education and Schools*  
Andy Lopp, Utah Valley University

### MATHEMATICS

#### University Center Ballroom - Kiosk 55 Side A

*Analysis of High-Speed Gaseous Flows Using Molecular Tagging Velocimetry and the Hough Transform*  
Susan Hoops, St. Olaf College

#### University Center Ballroom - Kiosk 56 Side A

*Special Words in Free Groups*  
Tim Reid, George Mason University

### MECHANICAL ENGINEERING

#### University Center Ballroom - Kiosk 18 Side B

*Accurate Prediction of the Colloidal Nanoparticles Aggregation in an Implicit Solvent with Coarse-Grained Molecular Dynamics*  
Nikita Birbasov, University of Kentucky

#### University Center Ballroom - Kiosk 52 Side A

*Directing the Self-assembly of Multiple DNA Nanostructures in a Single Reaction*  
Vasiliki Kolliopoulos, Ohio State University

#### University Center Ballroom - Kiosk 53 Side A

*Investigating Parametric, Analytical, and Experimental Engine Cycle Analysis on the DGEN 380*  
Christopher Roper, Kennesaw State University

## Student Poster Session 9 - Fri 4:00pm-5:00pm

### **University Center Ballroom - Kiosk 54 Side A**

*Reverse Energy Analysis Using Whole Building Energy Modeling Software, EQUEST*

Megan Gangewere, State University of New York-New Paltz

### **MICROBIOLOGY & IMMUNOLOGY**

#### **University Center Ballroom - Kiosk 33 Side A**

*Plasma Metabolites from Lactobacillus Johnsonii-supplemented Mice Suppress RSV Inflammasome Activation in Bone Marrow-derived Macrophages*

Shannon Best, University of Michigan

#### **University Center Ballroom - Kiosk 34 Side A**

*The Effects of Methicillin-Resistant Staphylococcus aureus and Methicillin-Sensitive Staphylococcus aureus on Murine Femur Weight and Strength*

Gerald Ngo, Saint Vincent College

### **NURSING**

#### **University Center Ballroom - Kiosk 26 Side B**

*Horizontal Violence Among Nursing Students in the Clinical Setting*

Caitlin Barber, Georgia Southern University

#### **University Center Ballroom - Kiosk 54 Side B**

*Chewing Gum to Promote Recovery of Gastrointestinal Motility After a Cesarean Section*

Selena LeGarde, Luther College

#### **University Center Ballroom - Kiosk 55 Side B**

*Factors Influencing Accuracy of ICP Measurement with External Strain Gauge*

Christine Yu, Texas Woman's University

#### **University Center Ballroom - Kiosk 56 Side B**

*Lessons Learned: Historical and Policy Analysis of Emerging Infectious Diseases—the Case of the HIV/AIDS Epidemic in the United States*

Samantha Nitti, University of Wisconsin - Milwaukee

#### **University Center Ballroom - Kiosk 57 Side B**

*Professional Caregiver Knowledge of Alzheimer's Disease in a Geriatric Care Facility*

Katherine Cox, Jacksonville University

### **University Center Ballroom - Kiosk 58 Side B**

*The Opportunity Cost Associated with Duplication of Publicly Provided Immunization Services for the Refugee Population*

Bridget Murphy, State University of New York-Brockport

### **PHYSICAL/OCCUPATIONAL THERAPY/ SPEECH LANGUAGE PATHOLOGY**

#### **University Center Ballroom - Kiosk 31 Side A**

*Kinematics of Activities of Daily Living in Patients with a Rotator Cuff Tear*

Briana Magruder, University of Wisconsin - Milwaukee

### **PHYSICS**

#### **University Center Ballroom - Kiosk 31 Side C**

*Analytic Solution to a Three-Level Optical Pumping System with Constant Coefficients*

William Dulaney, Appalachian State University

#### **University Center Ballroom - Kiosk 32 Side C**

*Dielectric Anisotropy and Elastic Constants Near the Nematic-Smectic A Transition*

Angelo Visco, Slippery Rock University

#### **University Center Ballroom - Kiosk 33 Side C**

*Ion Beam Analysis of Artificial Turf*

Morgan Clark, Union College

### **PHYSIOLOGY**

#### **University Center Ballroom - Kiosk 30 Side A**

*Exposure to PM2.5 In Utero Contributes to Early Adult Cardiac Dysfunction*

Jacob Grimmer, Ohio State University

### **POLITICAL SCIENCE**

#### **University Center Ballroom - Kiosk 29 Side A**

*Republicans & the Art of Gerrymandering: A Match Made in Political Heaven?*

Stephanie Obieroma, University of Kentucky

### **PUBLIC HEALTH**

#### **University Center Ballroom - Kiosk 26 Side C**

*An Analysis of Risk Factors for Teen Dating Violence*

Justin DeMonte, Evergreen State College

## Student Poster Session 10 - Sat 8:00am-9:00am

### **University Center Ballroom - Kiosk 27 Side C**

*Embodying the Border: Structural Barriers to Health for Immigrant and Refugee Women in Milwaukee, Wisconsin*

Cinthia Tellez Silva, University of Wisconsin - Milwaukee

### **University Center Ballroom - Kiosk 28 Side C**

*How Does Chronotype Influence Alcohol Consumption Among College Students?*

Alyssa Fuhr, Miami University

### **University Center Ballroom - Kiosk 29 Side C**

*Relationships Between Parental Nutrition Communication Strategies, Adolescent Eating Behavior, BMI-for-age, and Age at Menarche in 12 to 17 Year Old Girls*

Leila Raminpour, George Mason University

### **University Center Ballroom - Kiosk 30 Side C**

*Zika Virus Knowledge, Attitudes, and Information Seeking Among University Students*

Ashley Plaster, George Mason University

### **SOCIAL WORK**

#### **University Center Ballroom - Kiosk 25 Side C**

*International Students' Acculturation and Adjustment to College*

Delize Paul, Midwestern State University

### **SOCIOLOGY**

#### **University Center Ballroom - Kiosk 21 Side C**

*A Comparison of U.S. Versus German Undergraduate Students' Perceptions of the Impact of Undergraduate Research Experiences*

Mark Pettit, University of North Alabama

### **University Center Ballroom - Kiosk 22 Side C**

*Effect of Parenting Styles on Childhood Obesity in a Low Income Household*

Vania Emmela, Virginia Commonwealth University

### **University Center Ballroom - Kiosk 23 Side C**

*Planning for an Aging Population: A Mixed Methods Research Study*

Robert Skinner, Kennesaw State University

### **Student Poster Session 10 -**

#### **Sat 8:00am-9:00am**

### **ANTHROPOLOGY**

#### **University Center Ballroom - Kiosk 2 Side A**

*Oral History of Lakes Menomin and Tainter*

Laura Donovan, University of Wisconsin - Stout

### **ART HISTORY**

#### **University Center Ballroom - Kiosk 1 Side A**

*Identity Crisis: Nationalist Art in 1920s-30s Egypt and U.S.*

Blair Summers, University of Central Oklahoma

### **University Center Ballroom - Kiosk 1 Side B**

*The Reinforcement of the Image of Africa as Primitive in Picasso's Artwork*

Nina Nguyen, University of Central Oklahoma

### **ASTRONOMY**

#### **University Center Ballroom - Kiosk 3 Side A**

*Detection of Exoplanets Using Differential Photometry*

Daniel Barker, Hamline University, St. Paul

### **BEHAVIORAL NEUROSCIENCE**

#### **University Center Ballroom - Kiosk 4 Side A**

*Extending Avoidance Conditioning Disrupts Extinction Learning and Increases Persistent Avoidance*

Marcos Sánchez Navarro, Universidad Metropolitana

### **University Center Ballroom - Kiosk 4 Side C**

*Stress and Social Dominance: Cellular Mechanisms in the Ventral Hippocampus*

Kimberly Bress, University of Tennessee at Knoxville

### **BIOCHEMISTRY**

#### **University Center Ballroom - Kiosk 5 Side A**

*A Study of Aminoglycosides Binding to Mitochondrial rRNA*

Laimar Garmo, Wayne State University

### **University Center Ballroom - Kiosk 5 Side B**

*Comparison of Computational and Experimental Methods to Determine the Crystal Structure of Elm1p*

Amir Alwali, Susquehanna University

## Student Poster Session 10 - Sat 8:00am-9:00am

### **University Center Ballroom - Kiosk 5 Side C**

*Enhanced Immune-Related Protein in the Hemolymph of Offspring of Manduca Sexta Mothers Subjected to Stress*

Bruck Gezahegn, Baldwin-Wallace College

### **University Center Ballroom - Kiosk 6 Side A**

*In Silico Discovery of Inhibitors for SLC25A1 as a Target for Lung Cancer*

Rachel Carter, George Mason University

### **University Center Ballroom - Kiosk 6 Side B**

*Percent Crosslinking of Duplex DNA by Different Rhodium Compounds*

Swathi Kanakamedala, Moravian College

### **University Center Ballroom - Kiosk 6 Side C**

*Statistical Coupling Analysis of LARP6*

Marriah Lewis , Texas State University - San Marcos

### **University Center Ballroom - Kiosk 7 Side A**

*The Structural Basis for the Interaction Between RSV MA and Membrane Lipids*

Gunnar Eastep, University of Alabama at Birmingham

### **University Center Ballroom - Kiosk 18 Side C**

*Discovering Novel Inhibitors for N-acetylneurameric Acid Synthase in Neisseria meningitidis*

My Quan, University of Texas at Austin

### **University Center Ballroom - Kiosk 19 Side A**

*Discovering New Inhibitors Against New Delhi Metallo- $\beta$ -lactamase (NDM-1) Through Virtual Screening*

Sabi Shrestha, University of Texas at Austin

## **BIOLOGICAL ENGINEERING**

### **University Center Ballroom - Kiosk 7 Side B**

*Bioprinting Methodology Using a Pectin Based Bioink*

Amanda Banks, Saint Louis University

## **BIOLOGY**

### **University Center Ballroom - Kiosk 7 Side C**

*Centriole Remodeling and Poc1 Enrichment in Drosophila Melanogaster*

Michaela Roberts, University of Toledo

### **University Center Ballroom - Kiosk 8 Side B**

*Asellus aquaticus: Understanding the Loss of Pigmentation in Cave Animals*

Franco Fernandez, Dominican University of California

### **University Center Ballroom - Kiosk 8 Side C**

*Biological Effectiveness of Instream Restoration*

Jeremy Gurbatow, Susquehanna University

### **University Center Ballroom - Kiosk 9 Side A**

*Ciliogenesis in Cardiac Regeneration in Zebrafish (*Danio rerio*)*

Ao Shi, Wheaton College

### **University Center Ballroom - Kiosk 9 Side B**

*CRISPR/Cas9 Gene Editing in *Saccharomyces cerevisiae**

Kristen Pisarcik, Delaware Technical Community College

### **University Center Ballroom - Kiosk 9 Side C**

*Effect of Chronic Exposure to Artificial Sweeteners on Metabolism During Embryonic Development in Chicken Embryos*

Hannah Becker, Saint Vincent College

### **University Center Ballroom - Kiosk 10 Side A**

*Effects of Viral Infection on Life History Traits of *Drosophila melanogaster**

Sara Winzer, University of Idaho

### **University Center Ballroom - Kiosk 10 Side B**

*Expression of Anoctamin 1 in Adult Zebrafish*

Clayton Brady, State University of New York-Brockport

### **University Center Ballroom - Kiosk 10 Side C**

*Genetic Identification of Blood Parasites in Galápagos Marine Iguanas*

Shirley Zhang, University of South Alabama

### **University Center Ballroom - Kiosk 11 Side A**

*Hydroponic Testing of Iron Deficiency Chlorosis in Soybeans*

Sarah Kurtz, Iowa State University

### **University Center Ballroom - Kiosk 11 Side C**

*Isolation of a Novel Phage, OTooleKemple52*

Thomas Raymond, Virginia Commonwealth University

## Student Poster Session 10 - Sat 8:00am-9:00am

### **University Center Ballroom - Kiosk 12 Side A**

*Maternal Exercise Alters Lipid Accumulation in Offspring*  
Madeline Weltzer, University of Kentucky

### **University Center Ballroom - Kiosk 12 Side B**

*Neural and Hormonal Mechanisms of Social Behavior in Mice*  
Hannah Belski, University of Mary Washington

### **University Center Ballroom - Kiosk 12 Side C**

*Predictors of Stress Hyperglycemia in White-crowned Sparrows*  
Brad Davidson, St. Mary 's College of Maryland

### **University Center Ballroom - Kiosk 13 Side A**

*Roasting Hops: Manipulating Alpha Acid Levels, Polyphenol Levels, and Preservation Ability*  
Zachary Greiner, Xavier University

### **University Center Ballroom - Kiosk 13 Side C**

*The Identification of ASD-causal De Novo CNVs in a Familial Dataset*  
Alexander Lacey, Ohio State University

### **University Center Ballroom - Kiosk 14 Side A**

*Using Machine Learning to Understand T Cell Stimulation*  
Mildred Perez, Wake Forest University

### **University Center Ballroom - Kiosk 25 Side C**

*Stochastic Markov Chains to Predict Efficacy of Chemotherapy Dose Strategies for Breast Cancer Patients*  
Jennifer Xiao, White Station High School, University of Memphis

## **BIOMEDICAL ENGINEERING**

### **University Center Ballroom - Kiosk 3 Side C**

*Alginate-Gelatin Hydrogels with Magnetically Aligned Calcium Phosphate Reinforcement for Bone Graft Applications*  
Morgan Pfaff, Northeastern University

### **University Center Ballroom - Kiosk 14 Side B**

*Corneal Abnormality Detection Using Image Processing Techniques*  
Vincent Nagel, University of Michigan

### **University Center Ballroom - Kiosk 14 Side C**

*Modeling of Temperature Distribution in Laser Micromachining for Microfluidics*  
Saranja Annalingam, University of Central Oklahoma

### **University Center Ballroom - Kiosk 15 Side A**

*Testing a Methodology for ACLR Gait Analysis*  
William Benson, University of Memphis

## **BUSINESS/FINANCE/ACCOUNTING**

### **University Center Ballroom - Kiosk 19 Side B**

*The Relationship Between Perceptions on Financial Aid and University Experience*  
Khadedra Hylton, Clark Atlanta University

## **CELL & MOLECULAR BIOLOGY**

### **University Center Ballroom - Kiosk 19 Side C**

*Culture of Zebrafish Ovarian Cells to Facilitate the Study of Pseudoloma Neurophilia*  
Christina Ramelow, Eastern Washington University

### **University Center Ballroom - Kiosk 20 Side A**

*Extraction of High-Quality RNA From Human Articular Cartilage*  
Heather Le Bleu, University of Rochester

### **University Center Ballroom - Kiosk 21 Side A**

*Identifying Genetic Variants Using TCGA Cancer Sequencing Datasets*  
Beloved Godsown, Indiana State University

### **University Center Ballroom - Kiosk 22 Side A**

*Mechanism of Action of T-oligo and Its Role in Inducing Anticancer Responses*  
Zachary Schrank, Augustana College

### **University Center Ballroom - Kiosk 24 Side A**

*The Use of *Chlamydomonas Reinhardtii* to Express Bacterial Transgenic Constructs for Lps-free Protein Analysis in Immunological Assays*  
Vasupradha Vasudevan, Lone Star College System The Honors College

## Student Poster Session 10 - Sat 8:00am-9:00am

### **CELLULAR NEUROSCIENCE**

#### **University Center Ballroom - Kiosk 25 Side A**

*Activation of Mesolimbocortical Dopamine Pathways*  
Monique Latourette, Susquehanna University

#### **University Center Ballroom - Kiosk 27 Side A**

*The Neuroprotective Potential of Curcumin in the 6-Hydroxydopamine Model of Parkinson's Disease*  
Loukyia Kanakamedala, Moravian College

### **CHEMICAL ENGINEERING**

#### **University Center Ballroom - Kiosk 15 Side C**

*Applying Ion Exchange to a Complex Wastewater System: Evaluation of Phosphorus-compounds Adsorption and Product Purification*  
Felip Reyes Gaibor, University of Minnesota, Twin Cities

#### **University Center Ballroom - Kiosk 16 Side A**

*Reactive Ion Etching: Etch Protocols for an FR-4 Epoxy Composite in a N2/O2/CF4 Plasma Asher*  
Matthew Olson, University of Wisconsin - Stout

### **CHEMISTRY**

#### **University Center Ballroom - Kiosk 20 Side B**

*Analysis of Elemental Concentrations in Tree Leaves from Costa Rican Lowland Tropical Forests*  
Joshua Sager, North Central College

#### **University Center Ballroom - Kiosk 21 Side B**

*Developing a Technique for Chromium Speciation Analysis Using Inductively Coupled Plasma Optical Emission Spectrometer*  
Bianca Paul, Suffolk County Community College

#### **University Center Ballroom - Kiosk 22 Side B**

*Enhancing Enzyme Activity with Ultrasounds*  
Tamera Taylor, University of West Georgia

#### **University Center Ballroom - Kiosk 23 Side B**

*HPLC Method Development & Validation for Quantitative Determination of Kidney Cancer Biomarkers in Human Urine*  
Ting An Yen, University of Central Oklahoma

#### **University Center Ballroom - Kiosk 24 Side B**

*Luminescent Studies of Europium Metal Ion-Doped NaYF<sub>4</sub> Nanoparticles*  
Paige Phillips, Western Carolina University

#### **University Center Ballroom - Kiosk 26 Side A**

*Development Electrochemical Sensors Using Graphene Based Ionomphore-Doped Double Polymeric Membrane to Monitoring Heavy Metals*  
Giang Hoang, Arkansas State University

#### **University Center Ballroom - Kiosk 26 Side B**

*Quantum Mechanical Investigations of Mechanophores*  
Logan James, Mississippi State University

#### **University Center Ballroom - Kiosk 27 Side B**

*Study of the Photoacoustic Effect on C2H4 at High Concentrations, at Trace Detects in N2, and Detect Concentrations of Gas in Fruit*  
David Ide, University of Tennessee at Chattanooga

#### **University Center Ballroom - Kiosk 28 Side B**

*Synthesis and Characterization of the Zinc Complex of 5,10,15,20-tetra[3,4-dibenzyl oxyphenyl]porphyrin*  
Hayes Palacio, University of Montevallo

#### **University Center Ballroom - Kiosk 30 Side B**

*Understanding Reactivity in Molten Salt Solutions*  
Tina Slack, University of Wisconsin - Whitewater

### **CLINICAL PSYCHOLOGY**

#### **University Center Ballroom - Kiosk 32 Side B**

*Animal Assisted Therapy, Mood, and Social Facilitation*  
Alexandra Steel, Eastern Connecticut State University

#### **University Center Ballroom - Kiosk 33 Side B**

*Examining the Interrater-Reliability of the Levels of Personality Functioning Scale*  
Andrea Baltazar, University of Texas at El Paso

#### **University Center Ballroom - Kiosk 35 Side A**

*Is There a Relationship Between Borderline Personality Disorder Features and Inflammation?*  
Margaret Walsh, Ohio State University

## Student Poster Session 10 - Sat 8:00am-9:00am

### **University Center Ballroom - Kiosk 36 Side A**

*Public Observation of Behavior Towards People with Physical Disabilities*  
Tara Davison, Stetson University

### **COGNITIVE NEUROSCIENCE**

#### **University Center Ballroom - Kiosk 36 Side B**

*Hemispheric Differences in Change Deafness*  
Samantha Noll, University of Wisconsin - Parkside

#### **University Center Ballroom - Kiosk 37 Side B**

*The Cerebellum's Relationship to Language Function*  
Sophia Tchir, Florida International University

### **COMMUNICATION SCIENCES AND DISORDERS**

#### **University Center Ballroom - Kiosk 35 Side C**

*Speech Recognition Errors: Implications for Aging*  
Rachel Short, University of South Alabama

### **COMMUNICATIONS**

#### **University Center Ballroom - Kiosk 38 Side B**

*Disney's Moana (2016) and Hayao Miyazaki's Princess Mononoke (1997): The Depiction of the Female Heroine in Film Spanning Over Twenty Years*  
Kawehiokekai Moefu, Chaminade University of Honolulu

#### **University Center Ballroom - Kiosk 39 Side B**

*Technology Usage and User Age, Effecting Well Being*  
Kayla Tenore, Eastern Connecticut State University

### **COMPUTER ENGINEERING**

#### **University Center Ballroom - Kiosk 24 Side C**

*Visualizing Meteorological Data Using Virtual Reality*  
Emily Harrington, Saint Cloud State University

### **COMPUTER SCIENCE**

#### **University Center Ballroom - Kiosk 16 Side C**

*Visual Exploration of Collegiate Basketball Schedules Aided by Rvest Data Scraping*  
Christopher Noblitt, North Carolina State University

### **University Center Ballroom - Kiosk 36 Side C**

*Computer Program to Analyze Skilled Motor Control*  
Meghana Somsaale, University of Michigan

#### **University Center Ballroom - Kiosk 38 Side C**

*Parallel Computing with a Raspberry - Pi ( RPi )*  
*Beowulf Cluster Using Open MPI*  
Zachary Eckert, Bellarmine University

### **ECOLOGY & ORGANISMAL BIOLOGY**

#### **University Center Ballroom - Kiosk 42 Side C**

*Invasion of the Middle Creek Watershed by Rusty Crayfish (Orconectes rusticus)*  
David Zinn, Susquehanna University

#### **University Center Ballroom - Kiosk 43 Side C**

*Testing the Utility of Stable Isotopes for Analyzing Bee Foraging Across Habitats*  
Robert Burkhart, Ohio State University

#### **University Center Ballroom - Kiosk 44 Side A**

*What Does The Fox Say? A Comparison of Rural and Urban Red Fox Vocalizations*  
Savanah Leidholt, Montana State University Bozeman

### **ECONOMICS**

#### **University Center Ballroom - Kiosk 39 Side A**

*Does the Qualified Targeted Industry Tax Refund Attract New Businesses?*  
Cameron Letch, Florida Gulf Coast University

### **EDUCATION**

#### **University Center Ballroom - Kiosk 17 Side B**

*Validating the Instructional Hierarchy*  
Josie Mikosch, Minnesota State University, Mankato

#### **University Center Ballroom - Kiosk 28 Side A**

*Effects of Student Teachers on Students with Emotional Behavior Disorder*  
Kaitlin Spell, Georgia Southern University

#### **University Center Ballroom - Kiosk 38 Side A**

*A Meta-Analysis of Federally Funded Retention and Graduation Programs*  
Chanz Bayliss, University of Central Oklahoma

## Student Poster Session 10 - Sat 8:00am-9:00am

### **University Center Ballroom - Kiosk 40 Side B**

*A Study of Birth Order and Academic Achievement*  
Hannah Schmitt, California University of Pennsylvania

### **University Center Ballroom - Kiosk 41 Side B**

*Document-Based Learning: Outside Advanced Placement and Inside Student Minds*  
Miriam Roth, Hope College

### **University Center Ballroom - Kiosk 42 Side B**

*Kinesthetic Reading*  
Brandi Whitman, Lebanon Valley College

### **University Center Ballroom - Kiosk 44 Side C**

*The Music History Game: Assessing Learning Through Play*  
Katherine Knutson, St. Olaf College

## **ELECTRICAL ENGINEERING**

### **University Center Ballroom - Kiosk 18 Side A**

*Non-Invasive Brain Computer Interface: Current Techniques, Challenges and Solutions*  
Carrie Smith, Seattle University

## **ENGINEERING/ENGINEERING TECHNOLOGY**

### **University Center Ballroom - Kiosk 16 Side B**

*Interfacial Shear Strength of Carbon Fiber Composites*  
Sean Lee, University of Tennessee at Knoxville

## **ENGLISH**

### **University Center Ballroom - Kiosk 42 Side A**

*Students' Attitudes Toward Online Presentations*  
Mengting Gao, University of Wisconsin - River Falls

## **ENTREPRENEURSHIP**

### **University Center Ballroom - Kiosk 34 Side B**

*Women's Use of Microfinance in Hue, Vietnam*  
Madison Spigel, University of Wisconsin - Milwaukee

## **ENVIRONMENTAL ENGINEERING**

### **University Center Ballroom - Kiosk 17 Side A**

*Stratospheric Balloon Remote Sensing Platform*  
Dominic Critchlow, Austin PEAY State University

## **ENVIRONMENTAL STUDIES & SCIENCES**

### **University Center Ballroom - Kiosk 41 Side A**

*Deep Water Passive Acoustic Fathometry*  
Eric Harris, United States Coast Guard Academy

### **University Center Ballroom - Kiosk 43 Side A**

*Quantitative Analysis of Developmental Genes in Zebrafish Raised in Impaired Waters*  
Kathryn Bell, Longwood University

## **EXPERIMENTAL PSYCHOLOGY**

### **University Center Ballroom - Kiosk 44 Side B**

*Assessment of a Humane Education Summer Camp at the Oregon Humane Society: Effects on Self Image, Empathy and Attitudes Towards Animals*  
Lindsey Chan, Dominican University of California

### **University Center Ballroom - Kiosk 45 Side B**

*Conceptual Mappings Underlie Age of Second Language Acquisition Effects*  
Jordan Pitt, Westmoreland County Community College

### **University Center Ballroom - Kiosk 46 Side B**

*Early Behavioral and Physiological Predictors of Autism in 12-month-old Siblings of Children with Autism*  
Nicolas Poupore, University of South Carolina - Columbia

### **University Center Ballroom - Kiosk 47 Side B**

*Friendship, Victimization, and Peer-Interactions Among School Aged Children Home Life and Mental Health*  
Emily Miller, Moravian College

### **University Center Ballroom - Kiosk 48 Side B**

*Intrinsic and Extrinsic Motivation as Predictors of Anxiety and Depression*  
Sydney Batchelder, Eastern Connecticut State University

### **University Center Ballroom - Kiosk 49 Side B**

*Parent Guidance in Learning Math and Science at Home*  
Hailey Fleishman, Elon University

### **University Center Ballroom - Kiosk 51 Side B**

*Teaching Operant Conditioning Principles to Students: Making the World a Better Place*  
Dominic Ingram, University of Memphis

## Student Poster Session 10 - Sat 8:00am-9:00am

### **University Center Ballroom - Kiosk 52 Side B**

*The Influence of Humor on Relationship Quality and Conflict Resolution*  
Jack Ray, University of Wisconsin - Eau Claire

### **University Center Ballroom - Kiosk 53 Side B**

*Using Fear-Potentiated Startle to Examine Sex-Related Factors in Test Anxiety*  
Rebekah Fallin, Kennesaw State University

### **GEOGRAPHY & EARTH SCIENCES**

#### **University Center Ballroom - Kiosk 45 Side A**

*Calculating Aeolian Sediment Dynamics Relative to Varying Concentrations of the Gravel Lag*  
Tynon Briggs Briggs, University of West Florida

#### **University Center Ballroom - Kiosk 47 Side A**

*Geochemical Assessment of Lead Bioavailability in Urban Soils*  
Joshua Pigg, Indiana State University

#### **University Center Ballroom - Kiosk 49 Side A**

*Social Benefits of Community Gardens: Exploring the Role of Student Scholarship and Community Research Mentorship in Garden-based Food Justice Practice*  
Elise Hanson, Hamline University

#### **University Center Ballroom - Kiosk 50 Side A**

*Trash Accumulation on UWRF Campus*  
Kalley Swift, University of Wisconsin - River Falls

### **HEALTH SCIENCES**

#### **University Center Ballroom - Kiosk 40 Side A**

*Regeneration: One Tooth at a Time*  
Sarah Marshall, Westmoreland County Community College

#### **University Center Ballroom - Kiosk 59 Side B**

*Effect of CrossFit on Academic Performance and Examination Stress in Pre-Professional Undergraduate Students*  
Kaitlyn Brunworth, Wingate University

#### **University Center Ballroom - Kiosk 60 Side A**

*Preoperative Indicators of Index Hospitalization Death in LVAD Patients*  
Morgan Jameson, Lipscomb University

### **University Center Ballroom - Kiosk 60 Side B**

*Hidden Voice Problems in the High-risk Population: Early Intervention for Professional Voice Users*  
Julia Richardson, Lamar University

### **HISTORY**

#### **University Center Ballroom - Kiosk 17 Side C**

*"Your Humble Petitioners Do Ever Pray": Native American Civil Rights Activists and Petitioners in the Mashpee Revolt of 1833-34*  
Alina Scott, Southern Nazarene University

#### **University Center Ballroom - Kiosk 40 Side C**

*The Bill of Rights and American Slavery: Contextualizing George Mason in an Era of Slavery*  
DESMOND L. MOFFITT, George Mason University

### **KINESIOLOGY & EXERCISE SCIENCE**

#### **University Center Ballroom - Kiosk 57 Side A**

*Exercise Duration and Associated Fitness Improvements*  
Leigha Embertson, St. Catherine University

#### **University Center Ballroom - Kiosk 58 Side A**

*Perception of Body Weight*  
Kylie Kenedy, University of Nebraska at Kearney

#### **University Center Ballroom - Kiosk 59 Side A**

*The Relationship Between Motivational Factors and CrossFit Training Participation Across Different Age Groups*  
Ashton Matson, Kennesaw State University

### **LITERATURE**

#### **University Center Ballroom - Kiosk 62 Side B**

*Dürrenmatt's Der Besuch Der Alten Dame: Post-WWII Germany and Contemporary Society in the USA*  
Alexandria Bassett, North Central College

### **MANAGEMENT**

#### **University Center Ballroom - Kiosk 15 Side B**

*Perspectives of a New College President: An Exploratory Study*  
Ariana French, Clark Atlanta University

## Student Poster Session 10 - Sat 8:00am-9:00am

### **MATHEMATICS**

#### **University Center Ballroom - Kiosk 55 Side A**

*Beyond the Pythagorean Theorem*

Krissa Boman, College of St Scholastica

#### **University Center Ballroom - Kiosk 56 Side A**

*The Maximum Minimal Distance*

Christine Izyk, State University of New York-Brockport

### **MECHANICAL ENGINEERING**

#### **University Center Ballroom - Kiosk 18 Side B**

*Aerodynamic and Performance Optimization of a Large Scale RC Solar Aircraft*

Jackson Fadely, Florida International University

#### **University Center Ballroom - Kiosk 52 Side A**

*Computational Simulation of Ionic Liquids at Mesoscale with Accurate Prediction of Dynamics Using Coarse-Graining Approach*

Justin King, University of Kentucky

#### **University Center Ballroom - Kiosk 54 Side A**

*Seismic Reinforcement Analysis Of The Triumphal Arch Of The Church Of Andahuayllas, Peru*

Catherine Yip, University of Rochester

### **MICROBIOLOGY & IMMUNOLOGY**

#### **University Center Ballroom - Kiosk 3 Side B**

*The Structure of Heparan Binding Peptides Affects the Efficacy of Cytomegalovirus Entry Blockade*

Ravi Patel, University of Tennessee at Knoxville

#### **University Center Ballroom - Kiosk 13 Side B**

*Antibiotic Resistance Genes in Minnesota Soil Bacteria from Areas of High and Low Ferric Iron*

Gunner Drossel, Hamline University, St. Paul

#### **University Center Ballroom - Kiosk 32 Side A**

*Fecal Coliform Levels In Stormwater Fed Cannon Hill Park Pond Significantly Increased Following Rain Events*

Veronica Albrecht, Eastern Washington University

#### **University Center Ballroom - Kiosk 33 Side A**

*Prevalence of Pathogenic Isolates in Migratory Birds and Transfer to Local Populations*

Qianying He, Midwestern State University

### **NURSING**

#### **University Center Ballroom - Kiosk 54 Side B**

*College Student's Perceptions of How Their Experiences with Healthcare Providers Impact Their Willingness to Seek Future Care*

Jenna Ripperton, Gustavus Adolphus College

#### **University Center Ballroom - Kiosk 55 Side B**

*Health Promotion and Chronic Disease Prevention: Personal and Professional Care*

Danielle Olsen, University of Wisconsin - Milwaukee

#### **University Center Ballroom - Kiosk 56 Side B**

*Level of Education and Depressive Symptoms Are Associated with Fatigue Self-management in Women with Recurrent Ovarian Cancer*

Mariah Swisher, University of Pittsburgh School of Nursing

#### **University Center Ballroom - Kiosk 58 Side B**

*The Transition: Disease Knowledge and Transition Readiness*

Ebony Johnson, University of South Alabama

### **NUTRITION**

#### **University Center Ballroom - Kiosk 35 Side B**

*Consumer Acceptability of a "Simply Sweet" Ice-Cream Product Sweetened with Whole Dried Figs (*Ficus carica L.*)*

Veronika Maldonado, California State University - Long Beach

### **PHYSICAL/OCCUPATIONAL THERAPY/ SPEECH LANGUAGE PATHOLOGY**

#### **University Center Ballroom - Kiosk 31 Side A**

*Outcomes Measures for Post-surgical Shoulder Rehabilitation*

Callen Maupin, University of Nebraska at Kearney

### **PHYSICS**

#### **University Center Ballroom - Kiosk 32 Side C**

*Electrospun Nanocellulose-based Nanofibers: The Effect of Cellulose Particle Size and Morphology*

Katrina Hatch, University of Alabama at Birmingham

## Student Poster Session 10 - Sat 8:00am-9:00am

### **University Center Ballroom - Kiosk 33 Side C**

*IR Applications of Er-Doped CsCl-Ga-Ge-S Glasses*  
Jonathan Bunton, Austin PEAY State University

### **University Center Ballroom - Kiosk 34 Side C**

*Temperature Dependence of Electrostatic Discharge in Highly Disordered Insulating Polymers*  
Tyler Kippen, Utah State University

## **PHYSIOLOGY**

### **University Center Ballroom - Kiosk 30 Side A**

*Hibernator and Non-Hibernator Responses to Acute Changes in Water Intake*  
Sydni Andruskiewicz, College of Saint Benedict/ St. John's University

## **POETRY & CREATIVE WRITING**

### **University Center Ballroom - Kiosk 30 Side C**

*'Ward' and Understanding Divergent Perspectives*  
Perrin Shyne, Occidental College

## **POLITICAL SCIENCE**

### **University Center Ballroom - Kiosk 29 Side A**

*Roll-Call Voting in the State Legislature: A Study of Kentucky and Louisiana*  
Madison Calhoun, University of Kentucky

## **PSYCHOLOGY**

### **University Center Ballroom - Kiosk 8 Side A**

*Animal Empathy Among Disabled Veterans*  
LaRae Crenshaw, White Station High School, University of Memphis

### **University Center Ballroom - Kiosk 25 Side B**

*Relationship Between Cultural Communication and Ethnic Identity Development in Middle Adolescents*  
Kino Watanabe, White Station High School, University of Memphis

## **PUBLIC HEALTH**

### **University Center Ballroom - Kiosk 23 Side A**

*Awareness of Non-food borne Vectors of Salmonella*  
Emily Roy, White Station High School, University of Memphis

### **University Center Ballroom - Kiosk 26 Side C**

*An Investigation of Implicit Personality Theories and Mechanisms of Coping*  
Megan Tracy, Ithaca College

### **University Center Ballroom - Kiosk 27 Side C**

*Examining the Correlation Between Alcohol Consumption and Basal Metabolic Rate*  
Lamuel Bean, Miami University

### **University Center Ballroom - Kiosk 28 Side C**

*Impact of Urban Commuter Biking on Cardiovascular Health*  
Brian Perez, City University of New York- John Jay College of Criminal Justice

### **University Center Ballroom - Kiosk 29 Side C**

*Residential Proximity to Cropland and Cancer Incidence in Oklahoma*  
Seth Odum, Southwestern Oklahoma State University

## **RECREATION AND LEISURE STUDIES**

### **University Center Ballroom - Kiosk 31 Side B**

*Positive Effects of Leisure on Adults with Schizophrenia : A Case Study*  
Aaliyah Granger, University of Southern Mississippi

## **SOCIOLOGY**

### **University Center Ballroom - Kiosk 21 Side C**

*Adolescence in the Church: Perspectives from College Students and Adults on Mentorship and Spiritual Formation*  
Savannah Spicer, John Brown University

### **University Center Ballroom - Kiosk 22 Side C**

*Filial Piety in Confucianism and the Educational Expectations of Chinese Parents in China vs. Chinese Immigrant Parents in the United States*  
Jennifer Mak, Virginia Commonwealth University

### **University Center Ballroom - Kiosk 23 Side C**

*Raters' Perception of Impression of Attire and Its Influence on Perceptions of Professionalism*  
Deja Prince, Wingate University

## **Student Poster Session 11 - Sat 9:20am-10:20am**

### **Student Poster Session 11 - Sat 9:20am-10:20am**

#### **ANTHROPOLOGY**

##### **University Center Ballroom - Kiosk 1 Side C**

*Anger and Culture*

Angelina Nesbit, Eastern Washington University

##### **University Center Ballroom - Kiosk 2 Side A**

*Pine County Burial Recovery: A Biocultural Analysis of the Skeletal Remains of the Pokegama Mission Site*

Natasha Johnson, Hamline University

#### **ART HISTORY**

##### **University Center Ballroom - Kiosk 1 Side A**

*Institutionalized Authority: Production of Royal Identity in the Bamileke Tribe and National Identity in the United States*

Oliver Ellington, University of Central Oklahoma

#### **ASTRONOMY**

##### **University Center Ballroom - Kiosk 3 Side A**

*Developing a Flat Field System for Austin Peay State University's 20-inch Telescope*

Richard Borges, Austin PEAY State University

#### **BEHAVIORAL NEUROSCIENCE**

##### **University Center Ballroom - Kiosk 3 Side C**

*Complement Receptor Type 1 Polymorphisms Associated with Reduced Cortical Volume and Thickness in Healthy Middle-Aged Adults*

Hannah Scherkenbach, University of Wisconsin - Milwaukee

##### **University Center Ballroom - Kiosk 4 Side A**

*Females of a Moth with Two-celled Ears Discriminate Acoustic Stimuli with Different Temporal Patterns*

Jessica Hernandez, Florida International University

##### **University Center Ballroom - Kiosk 4 Side C**

*The Effect of REM Sleep on Cortisol Levels and Perceived Happiness*

Samantha Edmunds, Weber State University

#### **BIOCHEMISTRY**

##### **University Center Ballroom - Kiosk 5 Side A**

*Analysis of Small Molecule Antagonist Binding with Relaxin Receptor*

Briana Cervantes, Florida International University

##### **University Center Ballroom - Kiosk 5 Side B**

*Computational Docking of Uric Acid Derivatives That Can Bind to Xanthine Oxidase*

Lysengkeng Her, University of Wisconsin - Eau Claire

##### **University Center Ballroom - Kiosk 6 Side A**

*In Vivo Analysis of Aerobic Terminal Reductases in Shewanella oneidensis*

Brittany Ladson, Michigan State University

##### **University Center Ballroom - Kiosk 6 Side C**

*Structural and Biochemical Characterization of Spa47 Provides Mechanistic Insight into Type III Secretion System ATPase Activation and Shigella Virulence Regulation*

Jenna Bouvang, Utah State University

##### **University Center Ballroom - Kiosk 7 Side A**

*The Structural Characterization of a Truncated Variant of the Human NEIL2 DNA Glycosylase*

Monica Pasala, University of South Alabama

#### **BIOLOGY**

##### **University Center Ballroom - Kiosk 7 Side C**

*A Drosophila Pupal Skin Protein That Is Regulated Through the Ligand Binding Pocket of Drosophila USP (RXR)*

Elizabeth Barajas, University of Kentucky

##### **University Center Ballroom - Kiosk 8 Side A**

*An In-Vitro Iron Deficient Cortical Striatal Culture Model*

Emily Larson, University of Minnesota, Twin Cities

##### **University Center Ballroom - Kiosk 8 Side B**

*Assessing the Gut Microbiota Composition in Flies with Poor Brain Physiology*

Ana Barajas, University of West Florida

## Student Poster Session 11 - Sat 9:20am-10:20am

### University Center Ballroom - Kiosk 8 Side C

*Biomechanical Properties of Snapping Behavior in Mature and Regenerating Chela in the Snapping Shrimp, Alpheus Angulosus*  
Needhee Patel, College of Charleston

### University Center Ballroom - Kiosk 9 Side A

*Comparative Analysis of Freshwater Microbial Diversity*  
Masha Kinley, Webster University

### University Center Ballroom - Kiosk 9 Side B

*Cytokine Production by Rat Mesothelial Cells Exposed to Carbon Nanotubes Functionalized by Atomic Layer Deposition (ALD) Coating as a Means of Assessing Risk for Mesothelioma*  
Sreepradha Sridharan, North Carolina State University

### University Center Ballroom - Kiosk 9 Side C

*Effect of Inflammation on miRNA Expression in Pancreatic Beta Cells and Their Exosomes*  
Luciarita Bocuzzi, Florida International University

### University Center Ballroom - Kiosk 10 Side A

*Electrical Responses of an Electric Fish to the Isolated Electrical Signal of an Intruder*  
Leah Adams, Spelman College

### University Center Ballroom - Kiosk 10 Side B

*Extreme Kinesis: A Comparative Study of Prey Handling in Snakes*  
Josh Levano, Moravian College

### University Center Ballroom - Kiosk 10 Side C

*Genetic Identification of Fungal Samples from Select Missouri and Illinois Caves: Implications for the Distribution of Pseudogymnoascus destructans and White Nose Syndrome*  
Sandra Van Berk, Maryville University of Saint Louis

### University Center Ballroom - Kiosk 11 Side A

*Identification of Lichens - A Comparison Between Old and New Techniques*  
Austin Adam, Bellarmine University

### University Center Ballroom - Kiosk 11 Side C

*JAZ Genes Levels During Infection of Parasitic Root-Knot Nematode in Arabidopsis*  
Ashley Smith, Bridgewater State University

### University Center Ballroom - Kiosk 12 Side A

*Mechanisms Through Which REPO and PNTP1 Determine Longitudinal Glial Cell Fate*  
Amy Van Tassel, Susquehanna University

### University Center Ballroom - Kiosk 12 Side B

*New Insights in Corynebacterium Phage Infection*  
Emily Page, University of Alabama at Birmingham

### University Center Ballroom - Kiosk 12 Side C

*Pro-inflammatory Effect of Dengue Virus Ns1 and Envelope Proteins in Cultured Human Articular Chondrocytes*  
Taylor Derby, James Madison University

### University Center Ballroom - Kiosk 13 Side A

*Role of the Numb Protein in Synaptic Development, Synaptic Plasticity, and Locomotion*  
Katherine Stuart, Truman State University

### University Center Ballroom - Kiosk 13 Side C

*The Long Road to Recovery: How Can We Coax the Brain to Self-repair?*  
Christina Welch, Eastern Connecticut State University

### University Center Ballroom - Kiosk 14 Side A

*Uses and Benefits of the MultispeQ to Better Understand the Physiology of Arabidopsis Plants Grown Under Abiotic Stress Conditions*  
Erin Langley, Arkansas State University

## BIOMEDICAL ENGINEERING

### University Center Ballroom - Kiosk 14 Side B

*Detection of Prostaglandin-E-Metabolite (PGEM) in a Microfluidic Device*  
Shelby Morris, University of Central Oklahoma

### University Center Ballroom - Kiosk 15 Side A

*The Effects of Obesity on Bone-Promoting Endothelial Cells in Mouse Tibiae*  
Michael Ashburn, North Carolina State University

## Student Poster Session 11 - Sat 9:20am-10:20am

### BUSINESS/FINANCE/ACCOUNTING

#### University Center Ballroom - Kiosk 18 Side C

*Impact Investing: A Culturally Alert Approach with Zambian Honeybees*  
Katelyn Woten, Black Hills State University

#### University Center Ballroom - Kiosk 19 Side A

*Exchange Rate Regimes and the Global Financial Markets*  
Charles Rodgers, University of Memphis

### CELL & MOLECULAR BIOLOGY

#### University Center Ballroom - Kiosk 19 Side B

*"Risk" Alleles on Oxytocin Receptor Gene and Triadic Family Interactions in a Trauma-Exposed Sample*  
Camilla Cascardo, Wayne State University

#### University Center Ballroom - Kiosk 20 Side A

*Functional Study of Cancer Patient-associated Bcl-xL Mutants: A Step Towards Personalized Medicine*  
Sharon Pang, Macaulay Honors College - Hunter

#### University Center Ballroom - Kiosk 21 Side A

*Identifying Potentially Oncogenic Downstream Targets of the Hippo-YAP Signaling Pathway in Liver Cancer*  
Matt Maxwell, Southeastern Oklahoma State University

#### University Center Ballroom - Kiosk 22 Side A

*Molecular Genetic Analysis of 5'-3' Exoribonuclease (Xrn) Mutants in the Model Green Alga Chlamydomonas reinhardtii*  
Daniela Castellanos, University of Wisconsin - Parkside

#### University Center Ballroom - Kiosk 23 Side A

*Something's Fishy: Developing a DNA Isothermal Amplification Technology for Discriminating Related Fish Species in Fighting Food Fraud*  
Lindsey George, Arkansas State University

#### University Center Ballroom - Kiosk 24 Side A

*Uncovering Pathways to Longevity Through the SIRT6 Ribosylome and Interactome*  
Rosa Park, University of Rochester

### CELLULAR NEUROSCIENCE

#### University Center Ballroom - Kiosk 25 Side A

*Does MERTK Modulate Synaptogenic Function of Glia?*  
Aiperi Iusupova, Duke University

#### University Center Ballroom - Kiosk 26 Side A

*miRNA and Its Effects on Depression and Suicidality*  
Ellen Grappe, University of Alabama at Birmingham

#### University Center Ballroom - Kiosk 27 Side A

*Triboelectric Potentiation of Beta Amyloid Plaque Formation in Alzheimer's Disease*  
Samantha Scott, University of Kentucky

### CHEMICAL ENGINEERING

#### University Center Ballroom - Kiosk 15 Side C

*Assessing Biodegradable Lignin Nanoparticles (EBNP) Behavior and the Coffee-Ring Effect*  
Jeelan Rahhal, North Carolina State University

#### University Center Ballroom - Kiosk 16 Side A

*Wash Coat, Viscosity, and Effective Catalytic Substrates*  
Olivia George, University of Tennessee at Chattanooga

### CHEMISTRY

#### University Center Ballroom - Kiosk 21 Side B

*Developing Chemical Inhibitors to Investigate the Function of Falcilysin, an Essential Malarial Protease*  
Hannah Fejzic, California State University - San Bernardino

#### University Center Ballroom - Kiosk 22 Side B

*Estrone Reaction During Simulated Wastewater Treatment*  
Trevor Wendt, University of Wisconsin - Whitewater

#### University Center Ballroom - Kiosk 23 Side B

*Human Bone Absorption of Mercury and Other Heavy Metals*  
Alyssa Fernandez, University of Wisconsin - Whitewater

#### University Center Ballroom - Kiosk 24 Side B

*Measuring the Binding Energy of Glucose to GGBP Computationally*  
Nicholas Rigel, Wittenberg University

## Student Poster Session 11 - Sat 9:20am-10:20am

### University Center Ballroom - Kiosk 25 Side B

*Photoredox Catalysts and Their Applications in Organic Synthesis*  
Shannon Saluga, University of Toledo

### University Center Ballroom - Kiosk 26 Side B

*Removal of an Endocrine Disruptor by Clay-like Oxides*  
Kristiana Watson, Arkansas State University

### University Center Ballroom - Kiosk 27 Side B

*Surface-Enhanced Raman Spectroscopy Detection of Neurotransmitters*  
Emily Kounlavong, University of Tennessee at Knoxville

### University Center Ballroom - Kiosk 28 Side B

*Synthesis of A-Substituted Ethers Via an Oxonium Ion Intermediate*  
John Hood, University of Southern Mississippi

### University Center Ballroom - Kiosk 29 Side B

*The Enantioselective Synthesis of Dihydropyridinones Using Lewis Acid Catalysis Via Aza-Diels Alder Reactions*  
Sarina Jenkins, Seattle University

### University Center Ballroom - Kiosk 30 Side B

*Using High-Performance Liquid Chromatography to Determine a Drug's Ability to Permeate the Blood-Brain-Barrier for the Treatment of Alzheimer's Disease*  
Paul Espinosa, Georgia College and State University

## CLINICAL PSYCHOLOGY

### University Center Ballroom - Kiosk 32 Side B

*Changes in College Students' Heroism Concepts Following a Heroism-themed Title I School Intervention*  
Angel Peralta, The Citadel

### University Center Ballroom - Kiosk 33 Side B

*Family Matters: Toward a Model of Leadership Skill Development for 6th Grade Students*  
Elijah Younger, Clark Atlanta University

### University Center Ballroom - Kiosk 35 Side A

*Memento Mori: The Relationship Between Defensive Theology and Adaptive Memory Recall*  
Jermy Farnell, Southern Nazarene University

### University Center Ballroom - Kiosk 36 Side A

*Racial Microaggressions Impact on Mental Health for Black Women of Different Occupational Statuses*  
Esthanette Reid, University of Massachusetts Boston

### University Center Ballroom - Kiosk 37 Side A

*The Impact Social Withdrawal in Depression Has on Social Functioning*  
Clayton Allred, Mississippi State University

## COGNITIVE NEUROSCIENCE

### University Center Ballroom - Kiosk 36 Side B

*Individual Differences in Emotion-cognition Interaction: Effect of Serotonin Transporter Genotype on Positive and Negative Emotional Distractor Suppression*  
Roxanna Flores, Florida International University

### University Center Ballroom - Kiosk 37 Side B

*The Effects of Social Exclusion on Risky Decision Making*  
Eboney Nedd, Adelphi University

## COMMUNICATION SCIENCES AND DISORDERS

### University Center Ballroom - Kiosk 35 Side C

*The Prevalence of Noise-induced Hearing Loss (NIHL) in Middle School and High School Band Students*  
Kelsey Dougherty, Eastern Illinois University

## COMMUNICATIONS

### University Center Ballroom - Kiosk 38 Side B

*Forming University Flash Flood Mitigation Messages For Twitter*  
Sarah Draper, Texas Tech University

### University Center Ballroom - Kiosk 39 Side B

*The Absence of Emotion in Texting: Whether Emoji Expression Reduces Misinterpretation in Communication*  
Symone Thomas, Clark Atlanta University

## COMPUTER SCIENCE

### University Center Ballroom - Kiosk 16 Side C

*Web Application Security Exercise and Training Platform*  
Berkeley Willis, University of Memphis

## Student Poster Session 11 - Sat 9:20am-10:20am

### **University Center Ballroom - Kiosk 36 Side C**

*Creating Georeference Maps in GPS Denied Areas Through UAS*  
Joseph Maes, Saginaw Valley State University

### **University Center Ballroom - Kiosk 38 Side C**

*Puzzle Based Game for Learning Cybersecurity*  
Robert Edstrom, University of Memphis

### **CRIMINOLOGY**

#### **University Center Ballroom - Kiosk 2 Side C**

*A Case Study of New Hanover Regional Medical Center's Evacuation Plan's Adherence to Best Practices*  
Peter Milller, Western Carolina University

#### **University Center Ballroom - Kiosk 4 Side B**

*Identifying Sexual Encounters as Rape and Rape Myth Acceptance*  
Kylie Kuglar, Kennesaw State University

#### **University Center Ballroom - Kiosk 34 Side B**

*The Legal and Ethical Justifications of the Use of U.S. Drones in the Middle East*  
Katherine Wyant, Eastern Kentucky University

### **ECOLOGY & ORGANISMAL BIOLOGY**

#### **University Center Ballroom - Kiosk 41 Side C**

*Does Marking With DayGlo ECO Aurora Pink Pigment Powder Affect the Development or Survival of Monarch Caterpillars?*  
Nancy Shryock, Iowa State University

#### **University Center Ballroom - Kiosk 42 Side C**

*Invasive Earthworm Distribution on Islands of the Boundary Waters Canoe Area Wilderness*  
Jenna Barlow, University of Wisconsin - Eau Claire

#### **University Center Ballroom - Kiosk 43 Side C**

*The Effect of Single and Multiple Courting Males on Female Mating Decision Rules in the Wolf Spider *Tigrosa helluo**  
Andrea Mobley, Susquehanna University

### **EDUCATION**

#### **University Center Ballroom - Kiosk 2 Side B**

*The Value of Formal and Informal Assessments in the Classroom*  
Jocelyn Puckett, University of Central Oklahoma

#### **University Center Ballroom - Kiosk 17 Side B**

*Webster County College and Career Readiness Workshop*  
Erin Kiker, Appalachian State University

#### **University Center Ballroom - Kiosk 38 Side A**

*A Path Toward Multiplicative Reasoning with Understanding*  
Julia Pendola, Salisbury University

#### **University Center Ballroom - Kiosk 40 Side B**

*African American Males Perception of High School Teacher Efficacy*  
Carl Greer, University of Wisconsin - Milwaukee

#### **University Center Ballroom - Kiosk 41 Side B**

*Does Alabama Spend Enough Per Pupil?: An In-depth Analysis of Per Pupil Expenditures in Alabama.*  
Jordan Giddens, University of Alabama at Birmingham

#### **University Center Ballroom - Kiosk 42 Side B**

*Limiting Learning: The Effect of Labeling Students as Learning Disabled on Academic Performance*  
Stephanie Prasser, University of Wisconsin - La Crosse

#### **University Center Ballroom - Kiosk 43 Side B**

*Story Dictation in Early Childhood*  
Catherine Messner, University of Central Oklahoma

### **ELECTRICAL ENGINEERING**

#### **University Center Ballroom - Kiosk 18 Side A**

*Optimization of UV Stabilization Processes for Critical Dry Etch Applications*  
Alam Figueroa Aguilar, Cabrillo College

### **ENGINEERING/ENGINEERING TECHNOLOGY**

#### **University Center Ballroom - Kiosk 16 Side B**

*Living Up to Your Injectors Expectations*  
Colton Cavalli, Utah Valley University

## Student Poster Session 11 - Sat 9:20am-10:20am

### ENGLISH

#### **University Center Ballroom - Kiosk 42 Side A**

*When The Emperor Was Divine and The Gangster  
We Are All Looking For: The Struggle for Identity as an  
Asian American*

Ashley Pham, University of the Pacific

### ENVIRONMENTAL ENGINEERING

#### **University Center Ballroom - Kiosk 17 Side A**

*Sustainability Index*

Alexis Smoot, Florida International University

### ENVIRONMENTAL STUDIES & SCIENCES

#### **University Center Ballroom - Kiosk 43 Side A**

*Raising Aquatic Vertebrates in Impaired Waters Causes  
a Mis-expression of Genes Leading to Developmental  
Malformations*

Melanie Books, Longwood University

### EXPERIMENTAL PSYCHOLOGY

#### **University Center Ballroom - Kiosk 44 Side B**

*Audio-Racial Bias*

Mohamed Gaye, University of Memphis Lambuth

#### **University Center Ballroom - Kiosk 45 Side B**

*Context Effect of Physical Effort on Object Location  
Memory*

Brian Silverman, Eastern Illinois University

#### **University Center Ballroom - Kiosk 46 Side B**

*Effect of Size on Drosophila m. Visual Acuity*

Zoila Brummer, Florida International University

#### **University Center Ballroom - Kiosk 47 Side B**

*Higher-Level Health Habits: MyPlate Guidelines*

Madeline Johnson, Iowa State University

#### **University Center Ballroom - Kiosk 48 Side B**

*Long-Term Memory Recall and Mental Rotation*

*Accuracy Within an Augmented Reality Sandbox*

Nathaniel Patton, University of North Georgia

#### **University Center Ballroom - Kiosk 49 Side B**

*Paternal Psychopathology and Parenting Attitudes From  
Infancy to School Age*

Jacqueline Szabat, State University of New York- Buffalo

### **University Center Ballroom - Kiosk 50 Side B**

*Rats Remember Items in Context Using Episodic  
Memory*

Stefan Dalecki, Indiana University

### **University Center Ballroom - Kiosk 51 Side B**

*Factors That Explain Learning in a Narrative  
Comprehension Intervention for Children At-Risk for  
ADHD*

Allison French, University of Kentucky

### **GEOGRAPHY & EARTH SCIENCES**

#### **University Center Ballroom - Kiosk 45 Side A**

*Campus to Country, Is the Consensus on Climate  
Change Really What You Think It Is?*

Amber Lahay, Salisbury University

#### **University Center Ballroom - Kiosk 46 Side A**

*Determination of Elemental Arsenic and Leachable  
Arsenic in Aquifer Sediment Samples of Bangladesh*  
Razoana Ferdous, City University of New York- York  
College

#### **University Center Ballroom - Kiosk 47 Side A**

*Growing Cat Populations in a Welcoming World*  
Samantha Ellis, University of West Florida

#### **University Center Ballroom - Kiosk 48 Side A**

*Microclimate Gradients and Their Relationships to  
Terrestrial and Subterranean Biodiversity Along the  
High Knob Landform, Virginia*

Candon Gardner , The University of Virginia's College at  
Wise

#### **University Center Ballroom - Kiosk 49 Side A**

*Solving the Environmental Beef Crisis*

Anna Bornstein, Ithaca College

#### **University Center Ballroom - Kiosk 50 Side A**

*Trophic Cascades and Conservation: Analyzing the San  
Juan National Forest as a Potential Extension of the  
Mexican Gray Wolf Recovery Program*  
Rachel Utt, Carthage College

## Student Poster Session 11 - Sat 9:20am-10:20am

### **HEALTH SCIENCES**

#### **University Center Ballroom - Kiosk 40 Side A**

*Raising Awareness of Mental Health in Teenagers*  
Haley Oestreich, Eastern Washington University

#### **University Center Ballroom - Kiosk 59 Side B**

*Effects of 5-fluorouracil on Bifidobacteria, Lactobacillus, Bacteroides, and Escherichia coli in Vitro*  
Adrienne Carlson, Weber State University

#### **University Center Ballroom - Kiosk 60 Side A**

*Prevalence and Incidence of Health Risk Factors Among Adolescent Girls*  
Kylah Pollard, Kennesaw State University

#### **University Center Ballroom - Kiosk 60 Side B**

*Hunger Games: No Weigh To Live; Dental Effects of Food Addiction*  
Jaclyn Muscatello, Westmoreland County Community College

#### **University Center Ballroom - Kiosk 61 Side B**

*New to the USA: Arresting Decay*  
Alicia Hargenrader, Westmoreland County Community College

### **HISTORY**

#### **University Center Ballroom - Kiosk 17 Side C**

*Baseball and the Culture of Conformity at the Dawn of the Cold War*  
Darren Beebe, Western Carolina University

#### **University Center Ballroom - Kiosk 40 Side C**

*The History of Leis in Hawai'i During Pre-Colonial, Colonial and the Hawaiian Cultural Renaissance Eras*  
Tyechia Price, Northern Illinois University

### **INTERNATIONAL STUDIES**

#### **University Center Ballroom - Kiosk 62 Side A**

*Sameness and Difference: Is the United States Capable of Having an International Conversation?*  
Elizabeth Alexander, Ithaca College

### **JOURNALISM**

#### **University Center Ballroom - Kiosk 31 Side B**

*The Effects of Images to Challenge Public Opinion in Regards to People of Islamic Religion*  
Sarah Fultz, University of Memphis

### **KINESIOLOGY & EXERCISE SCIENCE**

#### **University Center Ballroom - Kiosk 58 Side A**

*Perceptions of Pokemon Go on Health*  
Gracia Clark, University of Wisconsin - Eau Claire

#### **University Center Ballroom - Kiosk 59 Side A**

*The Stimulation of the Genioglossus Via a Mouthpiece and Effect on Respiratory Rate During Steady State Exercise*  
Jensine Lamira, The Citadel

### **LINGUISTICS**

#### **University Center Ballroom - Kiosk 54 Side A**

*Learning Adjective Meanings Through Variable Exemplars*  
Crystal Lee, University of Rochester

### **LITERATURE**

#### **University Center Ballroom - Kiosk 24 Side C**

*"Secret Desire:" Language, Piety, and Peace-Making in Hikayat Hang Tuah*  
Joshua Chun Wah Kam, Hope College

### **MANAGEMENT**

#### **University Center Ballroom - Kiosk 15 Side B**

*Perspectives on Work-role Performance in Cross-functional Aviation Teams*  
Christopher Bearden, Middle Tennessee State University

### **MATHEMATICS**

#### **University Center Ballroom - Kiosk 55 Side A**

*Can Cellular Automata Improve Data Security?*  
Bailey Stillman, Western Carolina University

### **MECHANICAL ENGINEERING**

#### **University Center Ballroom - Kiosk 18 Side B**

*Aerodynamic Drag Reduction for a Semi-Trailer Truck Using Geometrically Optimized Rear Trailer Bumps*  
Taylor Reed, University of Central Oklahoma

## Student Poster Session 11 - Sat 9:20am-10:20am

### **University Center Ballroom - Kiosk 53 Side A**

*Investigation of Enhanced Water Harvesting of Superhydrophobic Nanostructured Surfaces*  
Kirby Clayton, Lamar University

### **MICROBIOLOGY & IMMUNOLOGY**

#### **University Center Ballroom - Kiosk 3 Side B**

*Transcriptome Analysis During Infection by Mycobacteriophages brusacoram and hetaeria Using Total RNA-sequencing*  
Robert Stenseng, College of St Scholastica

#### **University Center Ballroom - Kiosk 32 Side A**

*Forensic Sample Digestion: What Microbes Are Eating Human Proteins*  
Jason Floyd, University of North Alabama

#### **University Center Ballroom - Kiosk 33 Side A**

*Quorum-Sensing Inhibition by Various Stilbenoids and Their Effect on Biofilm Formation, Swarming Motility, and Toxin Production in Escherichia coli O157:H7*  
Maria Svagr, Weber State University

#### **University Center Ballroom - Kiosk 34 Side A**

*The Role of IFN- $\gamma$  Induced IL-10R1 Expression in Restitution of Epithelial Barrier Function During Intestinal Inflammation*  
Nathan Blaseg, Montana State University Bozeman

### **MUSIC**

#### **University Center Ballroom - Kiosk 1 Side B**

*"Keeping Down the Underground:" The Underrated Value of Indie Music Scenes as Economic Development Tools for Small American Cities*  
Meghan McKinney, Eastern Kentucky University

### **NURSING**

#### **University Center Ballroom - Kiosk 54 Side B**

*Contextual and Health Services Utilization Factors Associated with Perceptions of Social Stigma Among Urban HIV-infected African-American Men*  
Marlyatou Diallo, University of Wisconsin - Milwaukee

#### **University Center Ballroom - Kiosk 55 Side B**

*Homelessness: Attitudes of Nursing Students*  
Meghan Sergeant, University of South Alabama

### **University Center Ballroom - Kiosk 56 Side B**

*Medical Jargon and End of Life Decisions: What Is the Impact on Patient Education and Decision Making?*  
Kaitlin Gillespie, Western Carolina University

### **University Center Ballroom - Kiosk 57 Side B**

*Recovery Milestones in Stroke Patients and the Reintegration into Community Life*  
Gracie Glendinning , Baylor University

### **University Center Ballroom - Kiosk 58 Side B**

*The Use of Acupuncture for Cancer Related Pain Symptoms: An Evidenced-based Practice Intervention Project*  
Stephanie Balsom, Capital University

### **NUTRITION**

#### **University Center Ballroom - Kiosk 35 Side B**

*Controlling Antimicrobial Activity in Orange Juice Using Orange Oil*  
Yizhou Ma, University of Minnesota, Twin Cities

### **PHYSICAL/OCCUPATIONAL THERAPY/ SPEECH LANGUAGE PATHOLOGY**

#### **University Center Ballroom - Kiosk 31 Side A**

*Parental Speech, Language & Attention Concerns of Children Born Preterm*  
Amanda Evert, University of Nebraska at Kearney

### **PHYSICS**

#### **University Center Ballroom - Kiosk 31 Side C**

*Barnacle Exoskeleton Formation*  
Jessica O'Malley, Colgate University

#### **University Center Ballroom - Kiosk 32 Side C**

*Evaluating Scintillation Properties of Bi<sup>3+</sup> and Sb<sup>3+</sup>-doped LaI<sub>3</sub>*  
Daniel Rutstrom, University of Tennessee at Knoxville

#### **University Center Ballroom - Kiosk 33 Side C**

*LIBS of LIB: Lithium Identification of Batteries Using LIBS*  
Trevor Olsson, University of West Florida

## Student Poster Session 11 - Sat 9:20am-10:20am

### **University Center Ballroom - Kiosk 34 Side C**

*TiO<sub>2</sub> Nanoparticle Layers for Dye-Sensitized Solar Cells*  
Wyatt Johnson, University of West Georgia

### **PYHSIOLOGY**

#### **University Center Ballroom - Kiosk 30 Side A**

*Impact of Microcystin on Pre-Existing Liver Disease*  
Dalal Mahmoud, University of Toledo

### **POETRY & CREATIVE WRITING**

#### **University Center Ballroom - Kiosk 30 Side C**

*Young Protagonists and the Coming-of-Age Story*  
Jacqueline Grant, Elon University

### **POLITICAL SCIENCE**

#### **University Center Ballroom - Kiosk 28 Side A**

*Juvenile Delinquency: Is There an Avoidable Pattern?*  
Kendall Krach, Salisbury University

#### **University Center Ballroom - Kiosk 29 Side A**

*Seniority and Patterns of Legislative Production*  
Kelsey Barthold, Elon University

### **PUBLIC HEALTH**

#### **University Center Ballroom - Kiosk 27 Side C**

*Exploring the Relationship Between Age of Onset of Smoking and Drug Use*  
Emily Lekah, University of Minnesota, Twin Cities

#### **University Center Ballroom - Kiosk 29 Side C**

*Rural Indian Women: The Pathway to Empowerment*  
Torrey Wyatt, University of Rochester

### **SOCIAL WORK**

#### **University Center Ballroom - Kiosk 25 Side C**

*Keeping Siblings Connected: A Program Evaluation of Camp to Belong*  
Amelia O'Rourke, Siena College

### **SOCIOLOGY**

#### **University Center Ballroom - Kiosk 22 Side C**

*Happiness and Social Connectedness to Queer/Transgender People of Color Spaces Among Queer/Transgender People of Color*  
Calvin Colvin, University of Alabama at Birmingham

### **University Center Ballroom - Kiosk 23 Side C**

*Student Standpoints on Internet Privacy*  
Patrick Nelson, University of Wisconsin - Stout

### **WOMEN, GENDER, AND SEXUALITY STUDIES**

#### **University Center Ballroom - Kiosk 20 Side C**

*Effects of Attraction and How Individuals Feel They Attract Mates*  
Meilani Cruz, Trinity Christian College

## Index by Institution

### **A**

- Abilene Christian University 64, 75, 93, 102, 107, 110, 116, 118  
Adelphi University 99, 117, 126, 134, 155, 159, 161, 163, 169, 187, 193, 198, 202, 211, 215, 232  
Alabama A & M University 172  
Albright College 56, 66, 120, 124, 160, 183, 184, 196, 207  
American University 51, 52, 57, 71, 76, 86, 89, 103, 107, 112, 113, 115, 120, 123, 156, 164, 192, 218  
Anderson College 58, 59, 77, 86, 104, 135  
Anderson College Rainey Annex 81  
Appalachian State University 39, 45, 51, 52, 53, 60, 61, 64, 70, 71, 75, 80, 82, 88, 90, 93, 96, 114, 115, 122, 125, 128, 131, 132, 142, 147, 160, 166, 168, 169, 188, 202, 205, 219, 233  
Arkansas State University 36, 64, 66, 73, 82, 109, 130, 139, 141, 145, 147, 151, 154, 160, 169, 190, 204, 205, 208, 209, 216, 223, 230, 231, 232  
Armstrong State University 43  
Asbury University 87, 96, 188, 209  
Ashland University 82  
Auburn University 55, 78, 134, 190, 199, 206  
Augsburg College 144  
Augustana College 50, 56, 131, 141, 163, 168, 176, 180, 187, 206, 213, 222  
Austin PEAY State University 36, 81, 103, 110, 140, 147, 164, 173, 192, 201, 225, 228, 229

### **B**

- Baldwin-Wallace College 221  
Bay Path College 212  
Baylor University 93, 173, 236  
Bellarmine University 93, 113, 163, 188, 199, 204, 205, 217, 224, 230  
Belmont University 36, 54, 73  
Bethel College 107, 161  
Birmingham-Southern College 96  
Black Hills State University 42, 47, 50, 58, 67, 74, 76, 86, 136, 142, 150, 152, 169, 196, 210, 231  
Borough of Manhattan Community College 190  
Bowling Green State University 169  
Bridgewater State University 36, 46, 49, 51, 56, 57, 58, 60, 68, 85, 94, 95, 104, 107, 112, 121, 122, 128, 136, 141, 144, 158, 178, 188, 190, 197, 198, 204, 208, 213, 230  
Brigham Young University 103  
Brooklyn College 49, 52, 57, 58, 78, 81, 99, 113, 123, 129, 130, 136  
Brown University 197

### **C**

- Cabrillo College 233  
California State University - Long Beach 92, 102, 108, 171, 227  
California State University - San Bernardino 231  
California State University Monterey Bay 105, 168, 202  
California State University, Fullerton 46  
California State University- Bakersfield 161  
California University of Pennsylvania 38, 50, 79, 90, 101, 104, 132, 137, 162, 174, 185, 209, 213, 225  
Capital University 41, 48, 49, 60, 62, 86, 113, 114, 125, 130, 135, 136, 171, 178, 183, 191, 200, 236  
Carleton College 175  
Carleton University 60, 106, 204, 214  
Carthage College 61, 67, 68, 71, 76, 77, 95, 97, 103, 112, 121, 135, 151, 171, 175, 185, 191, 199, 204, 209, 213, 234  
Cedar Crest College 37, 82, 86, 102  
Cedarville University 72, 108, 125  
Central Connecticut State University 64, 131, 133  
Cerritos College 137

## Index by Institution

Chaminade University of Honolulu 60, 76, 224  
Christian Brothers University 98, 116, 184, 198  
Christopher Newport University 215  
City University of New York- Brooklyn College 51, 72, 88, 126, 173  
City University of New York- College of Staten Island 142, 146  
City University of New York- Guttman Community College 109  
City University of New York- John Jay College of Criminal Justice 228  
City University of New York- Lehman College 123  
City University of New York- Queens College 70  
City University of New York- York College 61, 71, 145, 158, 184, 190, 199, 234  
City University of New York-Brooklyn College 98, 137  
Clark Atlanta University 80, 146, 152, 159, 170, 196, 204, 222, 226, 232  
Coastal Carolina University 123, 145  
Coastal Georgia Community College 55  
Colgate University 40, 41, 62, 64, 81, 236  
College of Charleston 100, 136, 166, 169, 185, 192, 196, 204, 213, 214, 230  
College of Saint Benedict/ St. John's University 141, 167, 176, 213, 228  
College of St Scholastica 58, 72, 198, 227, 236  
Colorado State - Colorado State University- Cooperative Extension- Jefferson Co 80, 108, 124, 132  
Columbia University 170  
Concordia College - Moorhead 51, 114, 115, 131, 150, 196  
Connecticut College 175, 177  
Corban University 46  
Cornell University 41, 184, 214  
Council on Undergraduate Research 36  
Creighton University 113, 146, 194, 202

## **D**

Davidson College 98  
Delaware Technical Community College 200, 221  
Dixie State College of Utah 76  
Dominican College 168, 200  
Dominican University of California 52, 53, 59, 65, 77, 78, 98, 104, 107, 116, 126, 136, 139, 145, 148, 151, 154, 162, 163, 178, 179, 180, 200, 204, 205, 207, 213, 217, 221, 225  
Dordt College 80, 93, 122  
Drake University 91  
Drexel University 61, 64, 83, 110, 118, 145, 157, 166, 167, 193, 198, 203  
Duke University 128, 231  
Duquesne University 105, 140, 142, 146, 156, 158, 159, 166, 172, 174, 186, 187, 193, 203, 210, 214

## **E**

East Carolina University 179, 189, 205  
East Central University 44  
East Tennessee State University 155  
Eastern Connecticut State University 52, 53, 57, 58, 63, 66, 69, 87, 89, 113, 121, 122, 130, 133, 136, 141, 152, 161, 194, 201, 223, 224, 225, 230  
Eastern Illinois University 82, 114, 121, 124, 125, 126, 133, 136, 179, 193, 232, 234  
Eastern Kentucky University 69, 86, 91, 123, 130, 233, 236  
Eastern Washington University 39, 41, 46, 47, 48, 65, 67, 68, 74, 79, 82, 84, 91, 95, 102, 104, 106, 110, 111, 112, 115, 117, 119, 125, 129, 131, 137, 138, 144, 145, 149, 150, 160, 162, 163, 165, 170, 180, 182, 185, 191, 207, 212, 215, 217, 222, 227, 229, 235  
Elmhurst College 38, 39, 59, 63, 137, 138, 145, 153, 160, 186

## Index by Institution

Elon University 44, 46, 47, 53, 54, 57, 60, 61, 64, 65, 68, 69, 71, 74, 75, 78, 87, 88, 93, 94, 97, 100, 104, 107, 115, 117, 122, 127, 131, 137, 139, 142, 150, 152, 153, 158, 161, 167, 174, 188, 191, 192, 208, 211, 213, 216, 217, 218, 225, 237

Embry - Riddle Aeronautical University 55, 83, 154, 165, 200

Embry-Riddle Aeronautical University 36

Evergreen State College 219

### F

Finger Lakes Community College 37

Fisk University 51, 140, 170, 181, 191, 194, 213

Florida Atlantic University 66, 89, 115, 129, 168, 177

Florida Gulf Coast University 100, 224

Florida International University 46, 70, 117, 126, 127, 128, 130, 143, 151, 173, 178, 181, 194, 208, 212, 224, 227, 229, 230, 232, 234

Fordham University 63, 74, 102, 127, 137

### G

Gannon University 45, 54, 151, 196

George Mason University 47, 48, 65, 71, 79, 80, 99, 100, 102, 107, 131, 133, 136, 143, 144, 148, 149, 152, 153, 160, 162, 164, 166, 170, 173, 176, 180, 188, 193, 194, 197, 201, 203, 204, 208, 216, 218, 220, 221, 226

Georgia College and State University 37, 75, 110, 111, 116, 141, 143, 166, 169, 187, 194, 196, 215, 232

Georgia Gwinnett College 175, 184

Georgia Southern University 36, 182, 210, 224

Greenville Technical College 63

Grove City College 189

Guilford College 44, 56, 93, 100, 111, 114, 191, 209

Gustavus Adolphus College 155, 164, 172, 182, 190, 191, 199, 218, 227

### H

Hamline University 44, 46, 59, 74, 87, 91, 96, 102, 109, 120, 137, 160, 175, 190, 192, 201, 226, 229

Hamline University, St. Paul 44, 49, 63, 84, 120, 137, 159, 176, 187, 193, 220, 227

Hampden-Sydney College 204

Hendrix College 69, 70, 76, 89, 99, 106, 127, 192

High Point University 135

Hope College 40, 53, 60, 87, 114, 120, 122, 152, 153, 154, 161, 166, 170, 173, 182, 207, 216, 225, 235

Houghton College 76, 77, 86, 104, 135

Humboldt State University 75, 211

### I

Illinois College 57, 59, 85, 123, 136

Illinois State University 115

Illinois Wesleyan University 162

Indiana State University 126, 141, 148, 152, 158, 169, 171, 172, 201, 203, 222, 226

Indiana University 45, 51, 61, 67, 80, 85, 100, 105, 155, 178, 184, 234

Indiana University Kokomo 123

Indiana University Purdue University Indianapolis 156, 173, 207

Iona College 88, 140, 158, 161, 168, 177, 178, 184, 186, 193, 196, 206, 215

Iowa State University 43, 55, 81, 92, 102, 108, 127, 150, 162, 169, 208, 221, 233, 234

Ithaca College 44, 45, 54, 59, 64, 70, 74, 78, 79, 84, 86, 89, 90, 96, 98, 107, 110, 111, 113, 115, 117, 118, 123, 126, 129, 132, 150, 153, 155, 176, 178, 182, 185, 187, 198, 215, 217, 228, 234, 235

## Index by Institution

### **J**

Jacksonville University 40, 50, 51, 52, 53, 66, 72, 80, 128, 207, 219  
James Madison University 45, 93, 103, 105, 111, 132, 141, 176, 194, 230  
John Brown University 50, 58, 68, 69, 77, 105, 120, 122, 123, 165, 167, 183, 228  
Joliet Jr College 199  
Juniata College 43, 51, 59, 60, 67, 78, 87, 89, 90, 132, 136

### **K**

Kapi'olani Community College 119  
Kean University 105, 129  
Kennesaw State University 39, 40, 43, 53, 61, 63, 65, 72, 73, 81, 138, 151, 153, 157, 160, 165, 166, 168, 172, 174, 181, 185, 191, 193, 207, 209, 212, 215, 218, 220, 226, 233, 235  
Kent State University 76, 218  
Kutztown University 108, 132

### **L**

Lafayette College 75, 79, 84, 85, 103, 106, 111, 119, 143, 150, 153, 190, 194, 195, 196, 199, 203  
Lamar University 46, 74, 118, 119, 142, 155, 156, 170, 172, 226, 236  
Lawrence University 149  
Lebanon Valley College 195, 225  
Lewis University 50, 101, 133  
Lipscomb University 52, 59, 168, 190, 195, 226  
Lone Star College System The Honors College 165, 181, 189, 201, 214, 217, 222  
Long Island University 48, 53, 57, 67, 76, 100, 103, 112  
Longwood University 141, 164, 181, 195, 225, 234  
Louisiana State University 85  
Loyola Marymount University 130, 138  
Loyola University Maryland 68, 91, 156, 157, 215  
Lubbock Christian University 56, 69, 78, 88, 117, 122, 143, 173, 200, 205  
Luther College 38, 48, 58, 66, 70, 95, 105, 124, 129, 135, 174, 177, 219

### **M**

Macaulay Honors College - Hunter 231  
Macaulay Honors College at Brooklyn 128, 186  
Macaulay Honors College at CUNY 40, 42, 44, 48, 71, 114, 119, 122, 138  
Macon State College 70, 122  
Marquette University 215  
Maryville University of Saint Louis 186, 194, 230  
Massachusetts College of Liberal Arts 39, 101, 109  
McDaniel College 129  
Mercer University 48, 69, 102, 120, 122, 130, 139, 203  
Meredith College 49, 103  
Messiah College 58, 63, 96, 98  
Metropolitan State University of Denver 65, 92, 110, 119  
Miami University 48, 114, 146, 148, 166, 181, 201, 210, 218, 220, 228  
Michigan State University 68, 89, 198, 229  
Middle Tennessee State University 106, 162, 167, 175, 235  
Midwestern State University 47, 58, 74, 77, 101, 102, 109, 111, 147, 153, 155, 164, 182, 192, 220, 227  
Milwaukee Area Technical College 217  
Milwaukee School of Engineering 46, 65, 92, 178  
Minnesota State University, Mankato 37, 56, 61, 85, 130, 132, 141, 145, 150, 152, 158, 170, 176, 186, 195, 196, 200, 206, 207, 224

## Index by Institution

Mississippi St Univ-Shackouls Honors Col 174, 178, 181  
Mississippi State University 87, 146, 154, 208, 223, 232  
Montana State University Bozeman 45, 63, 73, 83, 110, 118, 146, 153, 168, 196, 197, 224, 236  
Moravian College 56, 91, 101, 151, 169, 213, 221, 223, 225, 230  
Morehead State University 68, 197  
Mount Saint Mary College 92  
Mount Saint Mary's University 81, 135  
Musashino University 85, 157, 188, 209

### **N**

New York University 146  
North Carolina State University 55, 65, 83, 151, 159, 162, 167, 169, 170, 171, 175, 176, 186, 195, 198, 205, 208, 213, 214, 216, 224, 230, 231  
North Central College 38, 39, 41, 43, 53, 69, 72, 75, 95, 97, 104, 114, 129, 134, 139, 143, 159, 168, 170, 175, 179, 183, 187, 195, 199, 204, 223, 226  
North Dakota State University (Nlt) 49, 96, 121, 179  
Northeastern University 209, 222  
Northern Arizona University 55  
Northern Illinois University 47, 208, 212, 235  
Northern Michigan University 85  
Norwich University 74, 150, 209, 214

### **O**

Oakland University 55, 63, 64, 73, 100  
Occidental College- 43, 60, 62, 81, 109, 112, 228  
Ohio Northern University 165  
Ohio State University 66, 78, 103, 136, 138, 142, 148, 159, 169, 171, 177, 179, 184, 212, 213, 214, 218, 219, 222, 223, 224  
Oklahoma State University 56, 109, 133, 147, 173, 174, 179, 186  
Oregon State University 182  
Our Lady of the Lake University 88, 105, 107, 119, 126, 214

### **P**

Pacific Lutheran University 75, 93  
Paine College 205  
Penn State University 140  
Pitzer College 75  
Point Loma Nazarene University 114, 169  
Prairie View A&M University 187  
Presbyterian College 57, 102, 111, 168  
Purdue University Main Campus 92, 184

### **Q**

Queensborough Community College - CUNY 203

### **R**

Radford University 36, 59, 77, 78, 83, 101, 140, 156, 188, 200, 209  
Randolph - Macon College 106  
Reed College 119  
Rhodes College 79, 88, 96, 140, 149, 174, 186, 187, 203, 206  
Rice University 148

## Index by Institution

Roanoke College 50  
Russell Sage College 43, 73, 113

### S

Saginaw Valley State University 233  
Saint Cloud State University 56, 71, 224  
Saint Louis University 221  
Saint Vincent College 91, 118, 167, 201, 219, 221  
Salisbury University 53, 77, 94, 101, 104, 112, 115, 117, 131, 138, 142, 144, 144, 151, 154, 164, 168, 182, 197, 206, 212, 233, 234, 237  
San Jacinto College Honors Program 54, 59, 114, 206  
San Jose State University 200  
Seattle University 47, 49, 57, 66, 83, 85, 86, 102, 120, 136, 162, 225, 232  
Siena College 58, 68, 76, 95, 97, 112, 121, 162, 170, 182, 183, 216, 237  
Simpson College 209  
Slippery Rock University 47, 170, 219  
Slippery Rock University of Pennsylvania 116, 152, 163, 196  
Smith College 152  
Sonoma State University 106  
Southeastern Oklahoma State University 169, 231  
Southern Nazarene University 79, 115, 135, 143, 175, 178, 205, 226, 232  
Southern New Hampshire University 120, 128, 129, 165, 201, 216  
Southwestern Oklahoma State University 228  
Spelman College 97, 144, 159, 163, 170, 183, 203, 213, 230  
St Mary's College of California 141  
St Olaf College - Admissions 150  
St. Catherine University 45, 57, 69, 73, 83, 97, 100, 110, 118, 127, 160, 226  
St. Edward's University 69, 79, 80, 98  
St. John's University 141, 159  
St. Mary 's College of Maryland 176, 222  
St. Norbert College 185  
St. Olaf College 157, 165, 183, 218, 225  
State University of New York- Buffalo 175, 234  
State University of New York- Buffalo State 125  
State University of New York-Brockport 38, 54, 58, 67, 76, 81, 95, 98, 99, 113, 116, 143, 154, 155, 170, 186, 219, 221, 227  
State University of New York-Geneseo 48, 120, 138  
State University of New York-New Paltz 217, 219  
State University of New York-Oswego 38  
Stephen F. Austin State University 86, 197  
Stetson University 166, 224  
Stevenson University 56, 57, 69, 172  
Suffolk County Community College 217, 223  
Sul Ross State University 126, 180  
Susquehanna University 51, 61, 67, 130, 141, 143, 144, 149, 152, 153, 158, 159, 160, 161, 167, 168, 171, 173, 177, 178, 180, 190, 194, 195, 198, 206, 207, 220, 221, 223, 224, 230, 233

### T

Talladega College 168  
Tarleton State University 97, 106  
Technological University of Panama 181  
Texas Christian University 70, 97, 123, 164  
Texas State University - San Marcos 49, 133, 167, 221  
Texas Tech University 73, 105, 147, 176, 214, 232

## Index by Institution

Texas Woman's University 219  
The Citadel 149, 150, 178, 232, 235  
The Cooper Union 81  
The George Washington University 67, 90, 94  
The University of Findlay 49, 57, 68, 96, 113, 128  
The University of Virginia's College at Wise 70, 95, 118, 125, 131, 138, 145, 149, 163, 171, 173, 234  
Trevecca Nazarene University 59, 114  
Trinity Christian College 54, 79, 82, 147, 217, 237  
Trinity University 97, 106, 129  
Truman State University 43, 44, 49, 61, 62, 89, 96, 112, 113, 117, 129, 133, 150, 230  
Tulsa Community College 194, 212

### U

Union College 51, 72, 186, 202, 219  
United States Coast Guard Academy 145, 179, 217, 225  
United States Military Academy at West Point 188  
United States Naval Academy 205  
University of Missouri 96  
Universidad Metropolitana 197, 220  
University of Akron 155  
University of Alabama at Birmingham 40, 50, 74, 82, 91, 92, 107, 116, 140, 142, 143, 150, 151, 160, 168, 174, 177, 179, 184, 187, 196, 197, 198, 212, 213, 214, 221, 227, 230, 231, 233, 237  
University of Alabama in Huntsville 84, 200  
University of Alberta 147  
University of California, Davis 88  
University of California, San Diego 100, 126  
University of Central Florida 41  
University of Central Oklahoma 38, 39, 40, 53, 58, 60, 62, 67, 69, 72, 79, 83, 84, 87, 88, 90, 94, 96, 99, 103, 108, 113, 114, 115, 128, 130, 135, 144, 145, 146, 155, 157, 164, 166, 168, 174, 181, 188, 189, 192, 193, 197, 199, 200, 202, 204, 206, 209, 210, 211, 215, 216, 220, 222, 223, 224, 229, 230, 233, 235  
University of Chicago 208  
University of Connecticut 179  
University of Evansville 44, 56, 78, 122, 137, 141, 150, 158, 165, 172  
University of Florida 141, 186  
University of Georgia 75, 94, 138, 156  
University of Guelph 182  
University of Idaho 221  
University of Illinois at Springfield 70, 72, 76, 102, 180, 181, 200, 205, 209  
University of Illinois at Urbana Champaign 156  
University of Iowa 73, 175  
University of Kentucky 41, 42, 45, 46, 50, 51, 54, 58, 59, 68, 69, 82, 83, 94, 109, 112, 115, 118, 127, 131, 134, 138, 139, 140, 144, 155, 156, 158, 159, 165, 170, 172, 178, 179, 180, 183, 185, 186, 197, 198, 199, 202, 203, 209, 210, 217, 218, 219, 222, 227, 228, 229, 231, 234  
University of Leeds 118  
University of Louisville 192  
University of Maine 165  
University of Mary Washington 54, 157, 160, 196, 222  
University of Maryland, Baltimore County 73, 109, 138, 149, 170  
University of Massachusetts Boston 96, 112, 203, 232  
University of Memphis 36, 39, 40, 41, 42, 43, 44, 46, 47, 49, 50, 52, 53, 55, 57, 65, 74, 80, 83, 84, 85, 86, 93, 101, 103, 107, 111, 117, 119, 124, 129, 132, 133, 135, 140, 144, 145, 152, 154, 156, 158, 159, 161, 179, 189, 191, 193, 197, 198, 201, 207, 210, 212, 213, 214, 215, 222, 225, 231, 232, 233, 235  
University of Memphis- Lambuth 152, 161, 163, 165, 234  
University of Michigan 56, 91, 92, 100, 101, 110, 111, 117, 123, 145, 148, 159, 160, 163, 171, 174, 180, 181, 189, 191, 195, 199, 208, 211, 212, 214, 218, 219, 222, 224

## Index by Institution

- University of Minnesota 73  
University of Minnesota - Crookston 54, 59, 178  
University of Minnesota - Morris 49, 162, 189  
University of Minnesota, Duluth 55, 67, 84, 144, 147, 165, 176, 188, 200, 202  
University of Minnesota, Twin Cities 44, 61, 84, 100, 110, 118, 180, 194, 196, 201, 204, 207, 223, 229, 236, 237  
University of Mississippi 83  
University of Missouri - Columbia 60, 113, 126, 136  
University of Montevallo 45, 95, 126, 223  
University of Nebraska at Kearney 50, 68, 69, 77, 78, 97, 106, 154, 156, 165, 169, 177, 188, 189, 191, 197, 201, 203, 205, 218, 226, 227, 236  
University of Nebraska at Omaha 195  
University of Nevada Las Vegas 157, 207  
University of Nevada, Reno 45  
University of North Alabama 60, 104, 106, 174, 220, 236  
University of North Carolina - Asheville 43, 45, 62, 65, 72, 80, 90, 98, 110, 125, 130, 139, 156  
University of North Carolina at Greensboro 78, 90, 97, 109, 115, 140  
University of North Carolina, Charlotte 49, 51, 59, 85, 91, 95, 100, 121, 137, 160  
University of North Georgia 43, 63, 73, 91, 149, 151, 154, 162, 189, 202, 217, 234  
University of Northern Colorado 44, 50, 97, 106, 109  
University of Northern Iowa 50, 52, 57, 66, 95, 120, 132, 161, 167, 191, 204  
University of Oklahoma Norman Campus 105  
University of Pittsburgh School of Nursing 66, 75, 84, 92, 93, 101, 147, 182, 200, 227  
University of Puerto Rico at Humacao 173  
University of Rochester 54, 55, 61, 79, 87, 92, 97, 98, 110, 116, 117, 138, 143, 146, 147, 155, 157, 161, 166, 172, 175, 177, 186, 190, 215, 222, 227, 231, 235, 237  
University of South Alabama 54, 72, 75, 191, 212, 221, 224, 227, 229, 236  
University of South Carolina - Columbia 225  
University of South Florida 205  
University of Southern California 64  
University of Southern Mississippi 81, 89, 208, 212, 228, 232  
University of St. Francis 78, 213  
University of Tennessee at Chattanooga 38, 65, 77, 88, 162, 167, 223, 231  
University of Tennessee at Knoxville 48, 66, 68, 113, 158, 173, 177, 178, 185, 195, 198, 207, 210, 215, 220, 225, 227, 232, 236  
University of Texas at Austin 126, 142, 185, 203, 221  
University of Texas at Dallas 142, 179, 203, 204  
University of Texas at El Paso 223  
University of Texas at San Antonio 88  
University of Texas- Rio Grande Valley 205  
University of the Incarnate Word 110  
University of the Pacific 53, 56, 81, 86, 90, 99, 104, 112, 125, 147, 167, 177, 187, 190, 194, 197, 210, 212, 234  
University of Toledo 71, 80, 88, 102, 111, 156, 159, 168, 195, 204, 208, 210, 221, 232, 237  
University of Tulsa 70  
University of Utah 59, 62, 65, 74, 92, 94, 99, 118, 154, 156, 174, 180, 202  
University of Washington, Seattle 176  
University of West Florida 47, 55, 63, 70, 107, 115, 117, 121, 125, 129, 138, 143, 154, 161, 163, 165, 171, 172, 176, 182, 184, 185, 189, 190, 191, 193, 194, 201, 210, 216, 226, 229, 234, 236  
University of West Georgia 56, 58, 86, 93, 95, 100, 112, 117, 121, 133, 147, 173, 204, 210, 223, 237  
University of Wisconsin - Eau Claire 51, 87, 91, 99, 108, 109, 135, 155, 160, 164, 166, 177, 187, 190, 199, 205, 214, 215, 216, 226, 229, 233, 235  
University of Wisconsin - La Crosse 44, 45, 48, 55, 68, 70, 88, 97, 142, 145, 146, 149, 160, 162, 171, 172, 177, 182, 189, 190, 202, 210, 215, 233  
University of Wisconsin - Milwaukee 39, 47, 52, 57, 80, 85, 118, 121, 144, 152, 154, 162, 166, 167, 172, 174, 180, 189, 191, 193, 198, 203, 208, 211, 212, 217, 219, 220, 225, 227, 229, 233, 236  
University of Wisconsin - Oshkosh 84, 96, 147, 151, 157, 164, 182, 184, 189, 192, 195, 205, 207, 214

## Index by Institution

University of Wisconsin - Parkside 84, 139, 161, 188, 198, 206, 212, 216, 224, 231  
University of Wisconsin - River Falls 40, 71, 96, 120, 121, 126, 150, 153, 180, 182, 189, 195, 204, 211, 216, 225, 226  
University of Wisconsin - Stout 100, 109, 131, 148, 154, 157, 184, 198, 208, 220, 223, 237  
University of Wisconsin - Superior 87, 134, 152, 153, 159, 217  
University of Wisconsin - Whitewater 40, 109, 111, 125, 141, 144, 145, 146, 149, 151, 156, 164, 171, 176, 177, 181, 182, 197, 206, 215, 217, 223, 231  
Utah State University 41, 105, 121, 129, 165, 176, 228, 229  
Utah Valley University 46, 56, 66, 79, 80, 87, 91, 96, 101, 103, 104, 107, 114, 119, 123, 124, 131, 149, 151, 164, 218, 233

## V

Valparaiso University 49, 62, 73, 77, 82, 87, 104, 106, 112, 122, 129, 132, 133, 134, 136  
Vancouver Island University 94  
Villanova University 158, 206, 216  
Virginia Commonwealth University 47, 63, 65, 67, 68, 72, 74, 81, 82, 85, 88, 89, 105, 108, 112, 116, 118, 120, 124, 131, 133, 135, 136, 142, 146, 149, 163, 167, 168, 176, 180, 183, 187, 188, 196, 209, 210, 212, 220, 221, 228  
Virginia Polytechnic Institute & State University 46, 81, 119, 128, 130, 135, 146, 180  
Viterbo University 125, 185

## W

Wagner College 64, 175  
Wake Forest University 222  
Wayne State University 44, 50, 54, 64, 72, 92, 95, 103, 143, 149, 150, 152, 153, 163, 171, 175, 183, 184, 192, 193, 194, 195, 197, 206, 214, 220, 231  
Weber State University 49, 98, 157, 175, 210, 213, 216, 229, 235, 236  
Webster University 52, 82, 91, 124, 145, 160, 179, 188, 194, 230  
Wells College 53, 85, 154  
West Chester University 63  
West Virginia University 45, 141, 142, 151  
Western Carolina University 36, 38, 45, 50, 77, 84, 86, 87, 88, 92, 104, 105, 109, 110, 118, 121, 131, 133, 135, 141, 144, 149, 150, 153, 159, 162, 164, 179, 181, 184, 185, 189, 198, 206, 214, 223, 233, 235, 236  
Western Kentucky University 64, 144, 171  
Westminster College 36, 138, 139, 140, 167, 172, 183, 201, 218  
Westmont College 47  
Westmoreland County Community College 40, 41, 75, 154, 165, 180, 199, 225, 226, 235  
Wheaton College 67, 81, 90, 221  
Widener University 206  
William Paterson University 108  
William Peace University 40, 61, 87, 89, 93, 94, 98, 101, 124, 129  
Wingate University 60, 119, 172, 186, 190, 226, 228  
Winston-Salem State University 83, 94  
Winthrop University 78, 126, 142, 158, 201  
Wisconsin Lutheran College 55, 66  
Wittenberg University 70, 77, 127, 128, 151, 217, 231

## X

Xavier University 40, 41, 42, 60, 70, 86, 125, 130, 133, 137, 185, 194, 222

## Z

Zayed University 37

## Index by Presenter

### **A**

Abalos, AJ Jordan 119  
Abbas, Mohammad 179  
Abraha, Eve 134  
Abd-Alla, Areeg 102  
Abdelqader, Wadey 194  
Abedelwahab, Nasim 172  
Abu-kwaik, Amer 175  
Aceto, Michael 92  
Acker, Olivia 62  
Ackman, Nicole 122  
Acosta, Andrea 215  
Adam, Austin 199, 230  
Adams, Joanne 62, 90  
Adams, Leah 230  
Adams-Kuebler, Amber 68  
Adekunle, Tiwaladeoluwa 69  
Adie, Amanda 60  
Agrawal, Ruhani 176  
Aguilar, Alicia 109  
Ahmad, Tanjeev 212  
Ahmed, Ayan 187  
Ahmed, Fathi 57  
Ahmed, Hamza 213  
Ahmed, Tabassum 145  
Akintelure, Olakorede 146  
Alaniz, Bridget 77  
Alano, Katrina 166  
Alario, Caitlyn 77  
AlAshi, Amro 212  
Albrecht, Kate 113  
Albrecht, Sebastian 127  
Albrecht, Veronica 227  
Albrehi, Fatima 72  
Alcantara, Ace vladimir 71  
Alcaraz, Alicia 132  
Alden, Olivia 67  
Aldridge, Casey 51, 59  
Alexander, Elizabeth 235  
Alexander, Theophilus 98  
Alhammedi, Tawfiq 106  
Ali, Zahra 184  
Allan, Ayah 191  
Allbrandt, Melissa 112  
Allegretti, Catherine 58  
Allen, Brooke 204  
Allen, Josh 147  
Allen, Samantha 142  
Allende, Anna 84  
Allcock, Nicholas 172  
Allison, Devin 151  
Allred, Clayton 232  
Almarales, Kadijah 79  
Almasalkhi, Nadia 94  
Almeda, Katie 208

Altabet, Jason 79  
Alvarado Mateo, Diego 184  
Alvarez, Gabriela 137  
Alvarez, Kevin 114  
Alwali, Amir 220  
Amaya, Alan 110  
Amaya, Gracia 190  
Ambos, Elizabeth 36  
Ames, Colton 159  
Ammer, Maria 217  
Amos, James 165  
An, Elvira 100  
Anderson, Beth 174  
Anderson, Bryan 69  
Anderson, Jarrett 207  
Anderson, Maggie 163  
Anderson, Mitchell 212  
Anderson, Phoebe 127  
Anderson, Rachel 47  
Anderson, Sarah 73  
Andres, Megan 202  
Andrews, Taylor 162  
Andruskiewicz, Sydni 228  
Ang, Nicole 79  
Angeron, Isaac 119  
Angst, Sophia 94  
Ankley, Laurisa 191  
Anmave, Rebecca 195  
Annalingam, Saranya 222  
Anthony, Casey 67  
Anthony, Madeleine 96, 123  
Antony, Sara 46  
Antrobus, Romare 149  
Apol, Brandon 72  
Apol, Elayne 80  
Appleton, Ibrahim 209  
April, Caitlin 149  
Aqeel, Saher 142  
Arai, Nozomi 151  
Araki, Amanda 52  
Archer, Andrea 118  
Archer, William 118  
Arcia Gonzalez, Gretel 151  
Arias, Yisely 105  
Armenta, Bianca 156  
Armento, Matthew 137  
Armetta, Alessandra 184  
Arneson, Mariah 196  
Arnold, Kristin 58  
Arogundade, Opeyemi 192  
Arriaga, Steve 146  
Arrington, Kayland 165  
Arthur, Sydney-Morgan 198  
Artz, Brianna 162  
Asano, Francesco 136

Ashburn, Michael 230  
Asher, Tamerlane 111  
Assef, Sara 45  
Astle, Mayson 104  
Atamenwan, Enaho 153  
Atchison, Jacqueline 130  
Aten, Charlotte 55  
Athman, Asha 131  
Atiq, Zainab 186  
Atkinson, Eleanor 134  
Atkinson, Lauren 194  
Attalla, Jonathan 195  
Atwell, Katie 114  
Auh, Roy 128  
Aung, Toe 207  
Austin, Branden 88  
Avery, Mary 41  
Axtell, Alexis 68  
Ayala-Soto, Rosemarie 133  
Ayer, Jay 190  
Ayers, Christen 50  
Ayers, Kevin 36  
Ayotte, Samantha 185  
Ayres, Kirsten 163

### **B**

Baasland, Laura 138  
Babcock, Kailey 89  
Babcock, Quinton 111  
Bachan, Anna 146  
Bading, Jonathan 173  
Baer, Rachel 130  
Bagby, Veronica 58  
Baggett, Jenni 193  
Baghaei, Nellie 213  
Bah, Fatmata 57  
Bailey, Annie 116  
Bailey, Matthew 49  
Bailey, Sarah 205  
Bains, Sahej 184  
Baker, Arlynn 45  
Baker, Ian 55  
Baker, JohnMorgan 96  
Baker, Larry 85  
Baker, Mara 200  
Baker, Ryan 120  
Bales, Charles 70  
Balsom, Stephanie 236  
Baltazar, Andrea 223  
Banaszak, Ellee 166  
Bandaru, Mrudula 210  
Bandyopadhyay, Ananya 174  
Banks, Amanda 221  
Bansal, Sarthak 134  
Baradarlan, Darius 103

## Index by Presenter

- Barajas, Ana 229  
Barajas, Elizabeth 229  
Barbeau, Callie 125  
Barber, Nicholas 61  
Barbosa, Asaph Matheus 179  
Barker, Daniel 220  
Barker, Elizabeth 54  
Barlow, Jenna 233  
Barlow, Mattie 62, 108  
Barnes, Justin 147  
Barnes, Nicole 113  
Barnette, Quinn 137  
Baron, Francine 58  
Barone, Rachel 110  
Barrett, Elizabeth 143  
Barry, Shannon 104  
Bartel, Gloria 121  
Barthold, Kelsey 237  
Barto, Mason 49  
Barton, Jediah 185  
Basnet, Sanskar 102  
Bassett, Alexandria 226  
Batchelder, Sydney 89, 225  
Batchily, Selena 164  
Bates, Julia 115  
Batts, Santana 94, 129  
Baty, Josh 150  
Baude, Alexandre 75  
Bauer, Jessica 173  
Bauer, Kate 49  
Bauguess, Sarai 151  
Bautista, Danielle 193  
Baxter, Doyle 60  
Bayles, Justin 59  
Bayliss, Chanz 224  
Bayliss, Ruby 110  
Beachum, DeAnna 210  
Beahm, Tina 169  
Bean, Lamuel 228  
Bearden, Christopher 235  
Beck, Madeline 43  
Becker, Hannah 221  
Becker-Greene, Dakota 205  
Beckham, Jacob 194  
Bedard, Stephanie 74  
Bedingar, Esias 139, 202  
Beebe, Darren 235  
Beer, Sarah 51  
Begg, Tyler 77  
Beilfuss, Samantha 88  
Bélanger-Giguère, Kim 48  
Belfield, Lanazha 83  
Bell, Kathryn 225  
Bellino, Grace 63  
Bellisario, Anthony 61  
Belski, Hannah 222  
Bemis, Elizabeth 72  
Bempong, Kwame 54  
Benasaraf, Laura 44  
Bender, DeAnna 163  
Bender, Noah 87  
Bennett, Christina 186  
Benson, William 222  
Benthin, Grant 177  
Berchtold, Jessica 86  
Berger, Jeff 195  
Bergstrom, Blake 105  
Berjaoui, Abbass 183  
Berlin, Gioia 48  
Berry, Daniel 81  
Bertoni, Alyssa 134  
Bertrand, Kristen 84  
Berwari, Shivan 167  
Best, Shannon 219  
Bestfelt, Danielle 163  
Betterman, Karly 213  
Bevacqua, John 115  
Bhambhani, Hriday 196  
Bhandari, Suman 164  
Bielski, Nicholas 216  
Bills, Cody 176  
Biondo, Nicholas 195  
Birbasov, Nikita 218  
Birchett, Brianna 88  
Bird, Andrea 106  
Bishop, James 181  
Bishop, Nicole 204  
Bisirri, Evan 83  
Bjork, Matthew 190  
Black, Jordan 164  
Black, Margaret 158  
Blakemore, Ashley 163  
Blanc, Eva 48  
Blanchette, Hannah 90  
Blanford, Evan 186  
Blaseg, Nathan 236  
Blosser, Brooke 83  
Bluemel, Cheyloh 169  
Blumenfeld, Allison 120  
Blumhardt, Zoe 49  
Bocuzzi, Luciarita 230  
Bock, Heather 37  
Bodigor, Joanna 129  
Bodnar, Josh 108  
Bohl, Leah 166  
Bollhoffer, Barbara 120  
Bollinger, Sydney 95  
Bolt, James 75  
Boman, Krissa 227  
Bonds, Jacqueline 55  
Bonds, Ravon 111  
Bonneville, Andrea 51  
Bonomo, Lynn 204  
Books, Melanie 234  
Boren, Benjamin 151  
Borer, Samuel 165  
Borges, Richard 229  
Borges, Ryan 85  
Bornstein, Anna 234  
Bossard, MeeSoh 208  
Bostic, Jenai 144  
Boush, Lauren 59  
Bouvang, Jenna 229  
Bowen, Kristy 70  
Bowles, Jade 163  
Bowman, Heyley 72  
Box, Allyson 209  
Boyce, Venitia 60  
Boyland, Jarvis 42  
Bradley, Bryanna 39  
Bradshaw, Stephanie 71  
Brady, Clayton 221  
Braimah, Neysa 75  
Branco, Gabriel 121  
Brandel, Maria 91  
Brandt, Jacob 55  
Brandt, Megan 188  
Brandt, Sallee 96  
Branum, Elissa 50, 120  
Brasington, Tyler 146  
BRATU, ERIN 83  
Braun, Maria 72  
Bray, Nicholas 165, 182  
Braziel, Samuel 186  
Breene, Callum 110  
Brennan, Megan 201  
Bress, Kimberly 220  
Brewer, Logan 52  
Brickman, Kirstiana 58, 183  
Briese, Taylor 50  
Briggs, Krystal 58  
Briggs, Tynon Briggs 226  
Brighter, Grant 59  
Britton, Olivia 51, 72  
Britvich, Bradley 209  
Brizuela, Alicia 47  
Broberg, Erin 67  
Brockamp, Rachel 189  
Brockmeyer, Trisha 125  
Bromberg, Ashley 82  
Brooks, Hazel 143  
Brooks, Nicole 188  
Brooks, Sydney 151  
Brotherton, Jonathan 88  
Brown, Ashlyn 140

## Index by Presenter

- Brown, Callista 168  
Brown, Cameron 50  
Brown, Carter 56  
Brown, Denzel 111  
Brown, Holly 115  
Brown, Jeremy 48  
Brown, Justin 78  
Brown, Shelby 138  
Brown, Tyler 122  
Brownridge III, George 204  
Brownstein, Lauren 154  
Brozen, Brendan 74  
Brueggeman, Kathryn 85  
Bruick, Victoria 129  
Brummer, Zoila 234  
Bruno, Maria 106  
Bruns, Sarah 94  
Brunworth, Kaitlyn 226  
Bryan, Brendan 197  
Bryce, Tristen 110  
Buchanan, Gurney 188  
Buchanan, Mable 129  
Buchhop, Heather 54  
Buchroeder, Reyna 109  
Bucior, Danielle 117  
Budd, Kaitlin 100  
Buffalo, Echo 169  
Bui, Ashley 161  
Bull, Alex 181  
Bullington, Emily 215  
Bunton, Jonathan 228  
Burdette, Victoria 78  
Burford, Tessa 68  
Burgess, Andrew 41  
Burkhart, Robert 224  
Burlingame, Andrew 136  
Burnett, Nicole 74  
Burns, Bailey 38  
Burrage, Emily 212  
Burt, Katherine 76, 162  
Busekrus, Nadia 65  
Byrd, Andrew 39  
Byrd, Anya 170  
Byrd, Bre'Ana 189  
Byrd, Kinara 194  
Byrd, Olivia 156
- C**
- Caba, Antonia 148  
Caballero, Carlos 118  
Caban, Jenisa 161  
Cabrera, Tristan 111  
Caceres, Desiree 151  
Caesar, Alleyah 97  
Cafferty, Erin 150
- Cahill, Mairin 123  
Cain, Caitlin 196  
Calhoun, Madison 228  
Calkins, Hannah 175  
Callahan, Olivia 201  
Camden, Kennedy 141  
Campbell, Aquila 43  
Campbell, Erin 76  
Campbell, Oscar 137  
Campbell, Rachel 113  
Campbell, Sarah 137  
Campbell, Christopher 51  
Campos, Olivia 200  
Candler, Tess 201  
Cannon, Joshua 51  
Caputo, Olivia 138  
Cardascia, Nicole 115  
Cardenas, Monica 180, 207  
Carder, Hayden 92  
Carey, Deavon 201  
Carlson, Adrienne 235  
Carlson, Chris 173  
Carmier, Maria 81  
Carotti, Maria 46  
Carpenter, Crystal 204  
Carpenter, Emma 86  
Carper, Ashlee 128  
Carrica, Loren 50  
Carroway, Katherine 216  
Carter, Caitlin 91  
Carter, Dylan 39  
Carter, Hannah 158  
Carter, Rachel 221  
Carter, Seaon 189  
Carter III, Jerry 187  
Caruso, Lawrence 122  
Casacchia, Alicia 75  
Cascardo, Camilla 231  
Caselli, Abby 122  
Cash, Abigail 206  
Cassidy, Erin 44  
Cassidy, Tanner 38, 72  
Castellanos, Daniela 231  
Castillo, Daniel 178  
Castillo, Elijah 88  
Castro, Sandra 66  
Cavalli, Colton 233  
Cawley, Geoffrey 196  
Cebula, Alexandra 133  
Cervantes, Briana 229  
Chabot, Brittany 52  
Chalia, Anup 76  
Chamberlin, Victoria 132  
Chamness, Sarah 122  
Chan, Lindsey 225
- Chandra, Sidhanth 160  
Charache, Nicole 182  
Chase, Peter 109  
Chasteen, Mark 129  
Chavez, Briana 213  
Chavis, Danielle 64  
Chawla, Ashwini 119  
Cheek, Adanna 78  
Cheek, Patrick 158  
Cheema, Isra 94  
Chen, Danlei 215  
Chen, Sonja 100  
Chen, Stacey 172  
Chen, Yihe 161  
Cherryhomes, Ellie 126  
Cheung, Calvin 38  
Chhay, Kassandra 108  
Chia, Kirstie 137  
Chien, Lillian 140  
Chin, Raymond 166  
Chmielewski, Emese 183  
Cho, Liana 169  
Choi, Jiyeong 134  
Choi, Madison 76  
Choi, Sang Won 186  
Choi, Sung Woo 152  
Chong, June 144  
Choudhary, Fatimah 57  
Chowdhury, Afsana 216  
Chowdhury, Saraf 175  
Chowning, Melissa 109  
Chrencik, Matthew 195  
Christensen, Joshua 177  
Christensen, Sara 93  
Christensen, William 188  
Christiansen, Bailee 76  
Christoforatos, Bailey 171  
Chucko, Kathleen 57  
Chukwu, Angel 179  
Church, Anna 140  
Churchill, Brittany 107  
Cibulka, Austin 56  
Cifci, Muhammed 138  
Cipriani, Ciera 151  
Clapham, Margaret 91  
Clark, Gracia 235  
Clark, Jennifer 157, 193  
Clark, Jessie 150  
Clark, Leah 196  
Clark, Morgan 219  
Clark, Turner 102  
Clarke, Aryel 175  
Clayton, Kirby 236  
Cleary, Elizabeth 69  
Cleveland, Alexander 162

## Index by Presenter

- Clem, Kaitlyn 174  
Clements, Mitchell 102  
Clendenning, Samuel 81  
Cleymaet, Nicholas 45  
Click, Carolyn 113  
Cline, Gene 44  
Cochrane, Sean 97  
Coffman, Robert 180  
Coffman, Zachary 103  
Cole, Jacob 48  
Coleman, Alyssa 161  
Coleman, Itane' 90  
Coley, Alexander 54  
Colley, Brooke 163  
Collier, Maggie 92  
Collinger, Benjamin 106  
Colon, Lionel 190  
Colucci Chang, Katrina 107  
Colvin, Calvin 237  
Comstock, Josiah 198  
Conner, Allyssa 196  
Connor, Meghan 143  
Connors, Mary 199  
Cook, Erin 125  
Cook, Laura 38  
Cooksey, Teonna 193  
Coole, Jackson 208  
Copeand, Noah 62  
Corbitt, Shelby 190  
Corcoran, Alexis 44  
Corner, Gabrielle 75  
Correia, Samantha 198  
Corriveau, Alexandria 97  
Costantino, Amanda 206  
Costelle, Hannah 130  
Costello, Benjamin 200  
Costello, Philip 106  
Costic, Eliot 68  
Cote, Rebecca 115  
Cotton, Nicole 103  
Coughnour, Maria 41  
Coughlin, Bailee 200  
Coull, Thomas 151  
Courbin, Adam 53  
Courville, Kristin 95  
Cowan, Nicole 119  
Cox, Holly 80  
Cox, James 212  
Cox, Katherine 219  
Cox, Miranda 212  
Crain, Lydia 137  
Cram, Lauren 168  
Crame, Julianna 112  
Cramer, Tess 41  
Crawford, Rachel 49  
Creameans, Jarrod 82  
Crenshaw, LaRae 228  
Cressman, Andrew 195  
Crilley, Nicole 153  
Crisp, Alison 184  
Critchlow, Dominic 225  
Crocker, Caroline 134  
Crossnine, Candice 189  
Crowdus, Nathan 171  
Crowe, Catherine 120  
Crowley, Daniel 119  
Cruz, Meilani 237  
Csumitta, Kelsey 116  
Cuadros, Lucas 119  
Cude, Matthew 165  
Cuff, Timothy 36  
Culler, Emma 104  
Cunningham, Shannon 63  
Cupit, J. Grayson 74  
Curry, Stephanie 41  
Curtis, Michelle 164
- D**
- Dafgek, Jenna 64  
Dahal, Leena 122  
Dailey, Christopher 51  
Dale, Erik 84  
Dalecki, Stefan 234  
Daley, Emily 121  
Dalgo, E 51  
Dally, Jennifer 43  
Dalton, Christine 66  
Dalzell, Talia 196  
Dambii, Undralsaikhan 153  
Dang, Jasmine 180  
Dangolla, Prasadi 120  
Daniel, Antarius 176  
Daniels, Michael 56  
Danish, Samantha 67  
Dao, Christian 46  
Daram, Naveena 64  
Darr, Erin 150  
Das, Anindita 84  
Dasani, Divya 182  
Dasgupta, Sukanya 161  
Dave, Ahana 113  
Davidman, Emma 150  
Davids, BreAnna 141  
Davidson, Brad 222  
Davila Martinez, Melvin 87  
Davis, Danielle 217  
Davis, Kayla 94  
Davis, Kristina 90  
Davis, Natalie 126  
Davis, Raven 80  
Davis, Shannon 79  
Davis, Terron 51  
Davis-Biessener, Madison 144  
Davison, Tara 224  
Dawes, Alexander 90  
Dawson, Kelly 38  
Dawson, Micayla 191  
Day, Carson 141  
Dayag, Sidney 217  
de Groot, Alexis 211  
De Jong, Janelle 65  
De Leon Dominguez, Claudia 52  
Deane, Daniel 173  
Deaner, Amy 164  
Deeds, Quinn 210  
Deemer, Alexa 203  
Deihl, Emma 129  
Deitcher, Nathan 60  
Deitz, Theodore 157  
Dejean, Tatyana 67  
Del Basto, Daniel 52  
Del Buono, Elizabeth 141  
Delancey, Evan 82  
Delaney, Caitlin 179  
Delaney, Johanna 190  
Delano, Tyler 60  
Delbridge, Lauren 180  
DeLong, Lauren 117  
DeMonte, Justin 219  
Dempsey, Margaret 162  
Denning, Andrew 166  
Denver, Jacqueline 140  
Derby, Taylor 230  
DeRosier, Elizabeth 195  
Derringer, Julia 180  
Detchemendy, Thomas 167  
Dettle, Sarah 84  
Devanaboyina, Monika 82  
Diallo, Aissatou 114  
Diallo, Marlyatou 236  
Diaz Fabiani, Giovanna 41  
Dib, Aseel 187  
Diciuccio, Laurel 81  
Dickey, Benjamin 86  
Dickey, Mary 59, 137  
Dickinson, Sherah 106  
Dickson, Katherine 69  
Diehl, Stephanie 104  
Din, Asiyah 85  
Ding, Yujie 185  
Diviney, Elizabeth 50  
Do, Stephen 177  
Doan, Tu 200  
Doerner, Emily 97  
Does, Shelby 101

## Index by Presenter

- Dolan, Lindsay 124  
Doling-Tye, Shawnee 163  
Domanico, Anthony 84  
Domini, Desiree 75  
Donaghy, Caroline 169  
Donahue, Emily 141  
Dong, Maggie 127  
Donohoe, Chloe 192  
Donovan, Laura 220  
Doolen, Nicole 87  
Dore, Anna 88  
Dormois, Madeline 189  
Dornhecker, Amanda 58  
Doting, Kirsten 90  
Dougherty, Kelsey 232  
Doyle, Patricia 142  
Dozier, Oliver 139  
Draper, Sarah 232  
Drefahl, Stephanie 162  
Dremen, Anesce 103  
Dreves, Lena 181  
Drossel, Gunner 227  
Drown, Melissa 194  
Duenneman, Stephanie 191  
Duff, Hannah 209  
Duff, Kirsten 68  
Duffy, DeAnna 170  
Duffy, Ryne 107  
Duke, Kevin 81  
Dukes, Amanda 141  
Dulaney, William 219  
Dull, Claire 77  
Dumas, Kila 131  
Dumke, Rachel 171  
Duncan, Cassandra 182  
Duncan, Jasmine 121  
Dundumalla, Shreya 167  
Dunn, Clare 42  
Dupuis, Leonie 176  
Duran, Teagan 200  
Durkin, Sylvia 175  
Duron, Rilda 168  
Dyck, Daniel 83  
Dylewski, Haley 185
- E**  
Eastep, Gunnar 221  
Easter, Elizabeth 159  
Eastham, Mary 209  
Eckert, Zachary 224  
Eckstrom, Hannah 63  
Econie, Alexis 115  
Edgar, Keegan 187  
Edmunds, Samantha 229  
Edstrom, Robert 233
- Edward, Michelle 63  
Edwards, Averi 93  
Edwards, Cristha 203  
Edwards, Mya 170  
Edwards, Nina Simone 38  
Edwards, Tashanna 136  
Eggleton, Erica 168  
Egonu, Somtochukwu 190  
Ehlert, Amanda 185  
Eichlersmith, Thomas 120  
Eklund, Jesse 162  
Elfrink, Joseph 82  
Elharake, Jad 110  
Ellington, Oliver 174, 229  
Elliott, Richard 138  
Ellis, Samantha 234  
Ellison, Ashley 48  
Elmore, Stephanie 180  
Elnahhas, Ahmed 119  
Embertson, Leigha 226  
Emmela, Vania 220  
England, Nicholas 149  
Engle, Nickelaus 132  
Ensink, Elizabeth 154  
Erhart, Ellie 135  
Ernst, Delia 170  
Espinosa, Paul 232  
Etheridge, Sarina 100  
Eubanks, Ally 196  
Eun, James 198  
Evert, Amanda 236
- F**  
Fabian, Richard 55  
Fadely, Jackson 227  
Fairchild, Robert 42  
Fallin, Rebekah 226  
Fann, Chloe 197  
Farese, Nicholas 170  
Farley, Ashley 95  
Farmer, Ryeshia 61  
Farnell, Jermy 232  
Farnett, Sarah 154  
Farsang, Melissa 187  
Farthing, Rachel 183  
Fasana, Zachary 164  
Fate, Abigail 112  
Faulds, Emily 75  
Faye, Boukar 82  
Feagans, Amanda 165  
Fearnside, Zachary 198  
Feder, Kora 100  
Feider, Olivia 190  
Fejzic, Hannah 231  
Feldkamp, Katherine 43
- Felicetti, Catherine 111  
Fendley, Andrei 191  
Fenske, Mara 199  
Ferdous, Razoana 234  
Ferguson, Emily 157  
Ferguson, Ted 51  
Fernandez, Alyssa 231  
Fernandez, Franco 221  
Figueredo Aguilar, Alam 233  
Filanoski, Brooke 196  
Filter, Kyle 208  
Filus, Grant 202  
Finch, Ricky 59  
Finegan, Matthew 198  
Fink, Monica 148  
Fischer, Callie 205  
Fischer, Kendl 169  
Fischer, Laura 175  
Fischer, Sarah 203  
Fishel, Emily 39  
Fisher, Mardell 95  
Fisher, Megdalynn 56  
Fitzpatrick, Meagan 54  
Fleishman, Hailey 225  
Flesher, Natasha 169  
Fletcher, Rachel 133  
Flint, Andrew 177  
Florentine, Catherine 175  
Flores, Roxanna 232  
Flores, Wilson 171  
Floyd, Jason 236  
Floyd, Matthew 123  
Flynn, Hunter 68  
Flynn, James 96  
Foksinska, Aleksandra 150  
Foley, Megan 206  
Foley, Nicole 171  
Folk, Evan 156  
Fong, Alan 160  
Fonner, Braxton 165  
Forbes, Madison 128  
Forbes, Marcus 112  
Ford, Kallie 108  
Fordyce, Sara 184  
Forslund, Ebony 181  
Fortner, Ashley 170  
Foster, Ashley 132  
Foster, Darren 178  
Foster, Emma 120  
Foster, Nicholas 153  
Foster, Reagan 160  
Foster, Samantha 177  
Fouilloux, Chloe 118  
Fournier, Nathaniel 129  
Francesc, Maggie 138

## Index by Presenter

- Francis, Kevin 210  
Francis, Stephanie 133  
Francissen, Peter 180  
Franco, Justin 127  
Frankel, Tory 173  
Franklin, Tesiya 47  
Franta, Brandon 159  
Fredsell, Anya 97  
Freeman, Jordan 105, 121  
French, Allison 234  
French, Ariana 226  
Freyling, Mikayla 216  
Frideres, Allison 209  
Friedman, Tyler 208  
Friesen, Emily 135  
Frimpong, Nana 214  
Fritch, Byron 120  
Froschmayer, Eleanor 136  
Frost, Shyleen 180  
Fruhwirth, Ainsley 145  
Fuchs, Joelle 65  
Fuhr, Alyssa 220  
Fukuoka, Rio 209  
Fultz, Sarah 235  
Furhang, Rachel 142  
Furlich, Emily 133  
Fuss, Amelia 95  
Fyle, Lucas 176
- G**
- Gabriel, Daniel 98  
Gadiraju, Shanmuka 149  
Gaim, Temer 103  
Gaini, Meghana 179  
Galante, Giovanna 202  
Galaska, Alexandra 177  
Galfetti, Michael 48  
Gallaway, Erin 147  
Gallerani, Randi 51  
Gallimore, Jonathan 36  
Gambill, Catheryne 141  
Gan, Jingyi (Kyra) 152  
Ganatra, Megha 167  
Gandhi, Bhavin 171  
Gangewere, Megan 219  
Ganzke, Erin 199  
Gao, Mengting 225  
Gao, Yijie 55  
Garcia, Brian 194  
Garcia, Ernest 145  
Garcia, Jacob 168  
Garcia, Jordan 209  
Gardner, Candon 234  
Gardner, Josephine 216  
Garg, Noemi 92  
Garmo, Laimar 220  
Garner, Daniel 117  
Garofalo, Aaron 55  
Garrard, Mia 101  
Garretson, Alexis 153, 201  
Garrido Sierralta, Maria Constanza 121  
Garrow, Renee 116  
Garvisch, Autymn 78  
Gasbarri, Federico 74  
Gashi, Taulant 84  
Gaspari, Michelle 99  
Gates, Elizabeth 200  
Gaughan, Patrick 172  
Gayapa, Alyssa Marie 184  
Gaye, Mohamed 234  
Geesey, Kyle 132  
Geiser, Thomas 149  
Georgakopoulos, Amber 184  
George, Lindsey 231  
George, Olivia 231  
George, Shantae 154  
Gephart, Ryan 98  
Gerber, Meredith 107  
Gesualdo, Nathaniel 53  
Gezahegn, Bruck 221  
Ghanta, Ramesh 204  
Gherasim, Janelle 107  
Giambrone, Taylor 147  
Giancarlo, Amelia 79  
Gibic, Amina 155  
Gibson, Jared 215  
Gibson, Matthew 130  
Gibson, Tierica 43  
Giddens, Jordan 233  
Gierke, Lily 203  
Gill, Gurveer 163  
Gill, Hunter 152  
Gillespie, Kaitlin 236  
Gilliam, Lacie 43  
Gilmer, Gabrielle 78  
Girgis, Alexander 100  
Girgl, Taania 192  
Giron, Natalie 103  
Givens, Sarah 81  
Giwa, Rocky 170  
Gjertsen, Megan 217  
Glendinning, Gracie 236  
Glidewell, Gabrielle 39, 96  
Gnatz, Dylan 83  
Gocal, Wiktoria 203  
Godfrey, Olivia 80  
Godin, Olivia 69  
Godown, Beloved 222  
Goedhart, Carly 177  
Goering, Raeann 74  
Goetze, Owen 102  
Goff, Trudy 40  
Gohlke, Madison 55  
Goines, Sondrica 196  
Golafshan, Farhoud 44  
Golaway, Ania 190  
Golden, Israel 45  
Golden, Jonathan 110  
Goldsby, Amelia 62  
Gomez, Antonio 129  
Gomez, Laura 129  
Gondre, Guilise 187  
Gonzalez, Joshua 95  
Gonzalez, Samantha 147  
Gonzalez-Peltier, Gael 101  
Goodhart, Abigail 86  
Goodwin, Barrett 70  
Gordon, Kyle 147  
Gordon, Rylan 111  
Gore, Hunter 103  
Gorman, Hailey 132  
Gormley, Janelle 121  
Gorney, Kylie 198  
Gorrondon, Andrea 215  
Gottlob, William 76  
Gouge, Vince 82  
Gowin, Spencer 188  
Graham, George 149  
Graham, Jessica 44  
Graham, Rachel 215  
Grams, Tristan 204  
Granger, Aaliyah 228  
Grant, Jacqueline 237  
Grant, Molly 148  
Grappe, Ellen 231  
Grasser, Lana 89  
Grate, Angela 48, 113  
Gray, Crystal 187  
Gray, Emily 77  
Greco, Monika 147  
Green, DeShon 43  
Green, Jonathan 92  
Green, Nicole 57  
Greenlee, Jourdan 181  
Greenup, Joel 143  
Greer, Carl 233  
Greiner, Zachary 222  
Griesbach, Caleb 142  
Griffis, Hannah-Beth 199  
Griffith, Natifa 199  
Grill, Brooke 167  
Grimm, Chase 127  
Grimm, Kayla 38  
Grimmer, Jacob 219

## Index by Presenter

Gripko, Liv 188  
Grischow, Rebecca 49  
Grismore, William 102  
Grissom, Alice 50  
Gronquist, Pearl 148  
Groover, Anne 185  
Grosse, Megan 52  
Grow, Tyler 129  
Grubbs, Emily 80  
Gruendemann, Jeramiah 207  
Grundhoefer, Joseph 137  
Grunmeier III, Orvil 153  
Guarino, Maribeth 61  
Guida, Grace 135  
Guilfoy, Julianna 124  
Guion, Stephen 149  
Gull, Brekhnaa 203  
Gunter, Alexandra 93  
Gupta, Rahul 56  
Gupta, Saagar 112  
Gupton, Victoria 131  
Gurbatow, Jeremy 221  
Gustafson, Emily 182  
Gustaveson, Kara 174

### **H**

Ha, Chi 105  
Haddad, Aya-Nay 98  
Hadley, Jacob 201  
Haftel, Madeline 153  
Hahn, Eli 205  
Haidar, Fatima 214  
Hakas, Maggie 161  
Halarewicz, Adrian 156  
Hale, Jessye 118  
Haley, Alison 206  
Hall, Aaron 114  
Hall, Abigail 125  
Hall, Jade 94  
Hall, Jason 102  
Hamby, Rachael 74  
Hamel, Nicole 72  
Hamilton, Byron 111  
Hamilton, Hannah 102  
Hammer, Ryan 99  
Hammock, Kaitlyn 126  
Hamner, Samantha 101  
Hamon, Makenzy 215  
Hamparian, Matt 136  
Hand, Nora 79  
Hanebuth, Cannon 199  
Haney, Miranda 112  
Hanks, Madison Hanks 131  
Hanmandlu, Ankit 126  
Hannans, Lalar 182

Hanson, Alexa 63  
Hanson, Elise 226  
Hanson, Naomi 129  
Hanson, Valerie 208  
Harasymchuk, Kayla 206  
Harbert, Jenna 174  
Harbin, Hannah 143  
Hargenrader, Alicia 235  
Harlan-Gran, Kathryn 112  
Harp, Beverly 71  
Harper, Cherish 140  
Harrington, Emily 224  
Harris, Bria 168  
Harris, Caleb 83  
Harris, Eric 225  
Harris, Kymberly 36  
Harris, Mallory 75  
Harris, Miranda 43  
Harris, Morgan 89  
Harris, Tate 164  
Harris, Tristen 170  
Harris, Virginia 86  
Harrison, Caleb 201  
Harro, Cailin 117  
Hart, Ashlyn 113  
Hart, Jocelyn 192  
Harter, Janelle 185  
Hartley, Donna 180  
Hartline, Austin 178  
Hartman, Brian 121  
Harvey, Allison 47  
Harvey, Kody 204  
Harvey, Marcia 43, 63  
Harwell, Joshua 210  
Haselwood, Desirae 93  
Haslinger, Abigail 61  
Hass, Madeline 96  
Hatch, Katrina 227  
Hau, Michele 178  
Hausmann, Emilie 66  
Havelka, Theresa 198  
Haven, Levi 189  
Hawes, Charles 104  
Hawkins, Joseph 112  
Hawthorne, Emily 144  
Hayes, Emily 177  
Haynes, Allie 128  
Haynik, Rebecca 139  
He, Qianying 227  
Heald, Emily 95  
Heaps, Maggie 67  
Heaston, Patrick 122  
Heckman, Paisley 106  
Hehr, Aneesh 184  
Heim, Matthew 62

Heinen, Daniel 101  
Heisey, Sarah 196  
Helander, Aaron 73  
Helbling, Natalie 141  
Hellenbrand, Ryan 131  
Henderson, Kate 158  
Hendrix, Kaylen 165  
Henley, Adam 77  
Henley, Andrew 218  
Henry, Grace 160  
Henry, Taylor 148  
Henry, Zakiyah 94  
Henthorn, Daniel 133  
Her, Lysengkeng 229  
Hernandez, Amanda 88  
Hernandez, Gema 93  
Hernandez, Jessica 229  
Hernandez, Sonia 203  
Herr, Julie 156  
Herran, Juliana 57  
Herrera, Daniel 206  
Herrera, Savannah 99  
Hermann, Mady 179  
Hersh, Samuel 76, 218  
Hetz, Rebecca 151  
Hickerson, Ivy 172  
Hicks, Kaylee 112  
Higgins, Katy 145  
Hill, Bravada 185, 213  
Hill, Jill 167  
Hill, Ryan 81  
Hiller, Samantha 186  
Hillesheim, Kelsy 138  
Hilliard, Meredith 87  
Himmelmann, Hannah 158  
Hiner, Breanna 165  
Hines, Kiara 87  
Hines, Sara 108  
Hinkle, Michael 145  
Hinton, Zoe 205  
Hintz, Carl 170  
Hitchcock, Kaitlyn 206  
Ho, Tiffany 180  
Hoang, Giang 223  
Hobby, Corbin 193  
Hodac, An 166  
Hoeps, Phillip 66  
Hoffman, Marissa 172  
Hoffman, Matthew 92  
Hoggan, Marina 159  
Hoguet, Nicole 141  
Holderby, Kyrsten 193  
Hollebrandse, Alwin 65  
Holman, Marcel 113  
Holt, Katrina 152

## Index by Presenter

Homer, Lauren 98  
Honeycutt, Christina 135  
Hong, Tao 203  
Hood, John 232  
Hook, Alexandra 64  
Hoops, Susan 218  
Hopkins, Hannah 106  
Hopper, Montie 192  
Horell, Morgan 51  
Horn, Corey 104, 129  
Horstman, Cara 147  
Horton II, James 205  
Hosea, Jamesha 159, 204  
Hossler, Megan 47  
Hosty, Matthew 56  
Howell, Julia 212  
Hoyt, Kayla 60  
Hsain, Hanan 171  
Hsu, Sharon 121  
Hu, Xin 74  
Hubbard, Konrad 119  
Hubbard, Sean 118  
Huddleston, Keylin 217  
Hudnall, Darby 65  
Huet, AnnMarie 150  
Huettl, Angelica 145  
Huffman, Katherine Huffman 165  
Hughes, Andreanna 122  
Hughes, Holley 87  
Hughes, Parker 175  
Hulen, Sophia 128  
Hultin, Emily 110  
Humlicek, Megan 97  
Hundhammer, Lynne 211  
Hung, Carey 160  
Hungbui, Wesley 148  
Hunke, Megan 205  
Hunsanger, Elena 149  
Hunter, Ashli 105  
Hunter, Haywood 216  
Huntington, Ryan 125  
Hurley, Carra 87  
Hurst, Katlyn 127  
Hutchens, Andrew 38  
Hutchings, Meredith 81  
Hutchinson, Andrew 136  
Huynh, Thanh 94  
Hwang, Jenny 181  
Hyatt, Madisen 160  
Hyer, Alex 62  
Hylton, Khadedra 146, 222

### I

Ide, David 223  
Idell, Amerin 97

Ifeanyi, Nnenna 185  
Immler, Kathryn 217  
Ingenthron, Benjamin 160  
Inglis, Amanda 94  
Ingram, Dominic 225  
Ingram, Erin 53  
Inlow, James 153  
Irani, Sanaya 143  
Irish, Kathryn 118  
Irvan, Marcus 46  
Isaac, Joslyn 210  
Isacks, Patrick 85  
Isibue, Earle 208  
Iskandar, Nadine 130  
Iusupova, Aiperi 231  
Izquierdo, Pedro 134  
Izyk, Christine 227

### J

Jackson, Cameron 161  
Jackson, Christa 167  
Jackson, Devine 214  
Jackson, Holly 98  
Jackson, Skylar 53  
Jackson, Winston 172  
Jacob, Brigid 54  
Jacobs, Hannah 40  
Jaeger, Andrew 218  
Jafari, Kamron 55  
Jain, Avish 193  
Jakeli, Tamar 190  
Jakeway, Eileen 95  
Jalil, Daroon 132  
James, Logan 223  
James, Madison 186  
James, Rebekah 117  
Jameson, Morghan 226  
Janis, Scott 141  
Jankowski, Alex 60  
Jawabnavis, Srikavya 127  
Jeffko, Michael 179  
Jenkins, Alexis 208  
Jenkins, Jonathan 172  
Jenkins, Sarina 232  
Jennette, Michelle 158  
Jennings, Caitlin 200  
Jennings, Emily 116  
Jensen, Christian 201  
Jensen, Robert 105  
Jeon, Andrew 218  
Jervis-Viville, Jessica 93  
Jessen, Anna 93  
Jhaveri, Harsh 56  
Jimenez, Paola 140  
Jinright, Hayden 50

Jipp, Taylor 105  
Johanson, Deanna 134  
Johnosn, MaKenna 151  
Johns, Erica 201  
Johnson, Alyssa 191, 214  
Johnson, Arion 205  
Johnson, Billy 165  
Johnson, Claire 133  
Johnson, Ebony 227  
Johnson, Esther 59  
Johnson, Hannah 71  
Johnson, Jamie 182  
Johnson, Janna 60  
Johnson, Jeremy 75  
Johnson, Joel 96  
Johnson, John 205  
Johnson, Keith 126  
Johnson, Kyle 179  
Johnson, Madeline 234  
Johnson, Mercedez 85  
Johnson, Natasha 229  
Johnson, Shelia 201  
Johnson, T'quavious 77  
Johnson, Wyatt 237  
Johnson, Zarita 116  
Johnstone, James 110  
Jones, Andrew 191  
Jones, Brooke 186  
Jones, Elizabeth 149  
Jones, J'Lecia 94  
Jones, Jacob 40  
Jones, Jessica 171  
Jones, Kevin 83  
Jones, Kirby 103  
Jones, Mackenzie 155  
Jones, Marina 119  
Jones, Mark 178  
Jones, Matthew 164  
Jones, Morgan 49  
Jones, Nikki 104  
Jones, Zac 109, 127  
Joosten, Victoria 47  
Jordan, Nicole 152  
Jordan, Tanya 65  
Jousma, Jordan 54  
Joyce, Amanda 101  
Joyce, Darby 131  
Joyner, Haleigh 212  
Juarez, Olivia 99  
Juhasz, Dora 145, 171  
Jump, Adam 101  
Jump, Geneva 162  
Jupina, Lauren 164

## Index by Presenter

### K

Kadjeski, Meredith 154  
Kaiser, Allison 145  
Kaja Najumudeen, Mohamat Eirban Ali Bin 155  
Kakenmaster, Bill 76  
Kalotkin, Ariel 152  
Kalp, Colleen 199  
Kam, Joshua Chun Wah 235  
Kamara, Aminata 75  
Kanady, Lauren 114  
Kanakamedala, Gautam 213  
Kanakamedala, Louky 223  
Kanakamedala, Swathi 221  
Kang, Hyejoo 176  
Kannel, Katelyn 199  
Kanter, Mitchel 213  
Kapp, Kathryn 54  
Karaga, Oumar 51, 191  
Karnas, K 37  
Karpeuk, Stephanie 86  
Karra, Ramasahitya 193  
Karras, Elizabeth 72  
Kartaly, Kendall 87, 104  
Kats, Hannah 143  
Kattan, Judy 180  
Katz, Isabelle 91  
Katz, Ned 180  
Katz, Tatum 109  
Kaur, Manpreet 194  
Kaur, Sharonjeet 174  
Kaushik, Akhil 142  
Kawahigashi, Emily 85  
Keaton, Benjamin 210  
Keck, Jessica 207  
Keen, Christian 59  
Kehoe, Brendan 86  
Kelleher, Jennifer 218  
Kelley, Holden 142  
Kelly, Janelle 140  
Kelner, William 206  
Keling, Emily 146  
Kemei, Edward 173  
Kenawy, Hagar 195  
Kendall, Tess 216  
Kenedy, Kylie 226  
Kennedy, Brooke 188  
Kennelly, Samantha 160  
Kern, Jordan 145  
Kerns, Evelyn 69  
Kersten, Jenna 216  
Kesler, Emilee 217  
Ketch, Elise 105  
Ketelhohn, Rachelle 144  
Ketron, Hope 138

Keyes, Aislyn 110  
Khalafallah, Youssef 194  
Khan, Oneeka 71  
Khan, Rahanna 126  
Khin, Jennifer 104  
Khoushi, Amar 37  
Kibler, Megan 146  
Kidder, Jane 49  
Kiefer, Molly 211  
Kiker, Erin 233  
Kim, Anya 73  
Kim, Chris 123  
Kim, Josephine 54  
Kimura, Brianne 181  
King, Ashley 68  
King, Grace 110  
King, Justin 227  
King, Laurie 74  
King, Melanie 114  
King, Randall 89  
King, Samuel 145  
King, Shay 112  
King, Timothy 108  
Kinley, Masha 230  
Kippen, Tyler 228  
Kirby, Abigail 68  
Kirkeide, Courtney 45  
Kissel, Heather 217  
Kissinger, Tia 180  
Kleman, Hannah 148  
Kleppe, Morgan 155  
Klietz, Samantha 143  
Klimes, Alexa 50  
Kling, Hannah 205  
Kloos, Mary 196  
Knaak, Michael 97  
Kneller, Calypso-Jade 154  
Knight, Joshua 127  
Knight, Mackenzie 43  
Knowles, Catherine 132  
Knutson, Katherine 225  
Koby, Hannah 62  
Koch, Kalen 152  
Koch, Kate 135  
Koch, Mary-Margaret 71  
Kolia, Sadaf 142  
Kolling, Adam 150  
Koliopoulos, Vasiliki 218  
Koltsov, Andrey 129  
Korfhage, Justin 117  
Korol, Katherine 142  
Kotha, Amulya 209  
Kounlavong, Emily 232  
Kourie, Cortney 82  
Kousen, Amanda 103

Koyfman, Katherine 126  
Kozan, Darby 100  
Krach, Kendall 237  
Kraner, Debra 146  
Krause, Fernando 161  
Kremer, Colleen 106  
Krish, Sneha 67  
Krivchenia, Chava 43  
Krupp, Jersey 188  
Kruse, Caroline 218  
Kucko, Katherine 183  
Kudach, Christina 93  
Kuenzli, Madison 88  
Kueppers, Rachel 141  
Kuglar, Kylie 233  
Kuhn, Adam 97  
Kuiken, Bethany 76  
Kuklo, Madeline 145  
Kulaga, Nicholas 96  
Kulish, Bailee 152  
Kumar, Jay 168  
Kumar, Nidhi 124  
Kummer, Kaitlin 68  
Kuo, Lilo 42  
Kurtz, Cameron 55, 200  
Kurtz, Sarah 221  
Kurzu, Sarah 124  
Kuzmanovski, Nikola 134  
Kwan, Anthony 140

### L

L. Moffitt, Desmond 226  
LaBrecque-Grenier, Marisa 52, 152  
Lacey, Alexander 78, 222  
Ladson, Brittany 229  
Lahay, Amber 234  
Lall, Malvika 212  
LaMartina, Kelsey 143  
Lamb, Kaylee 50  
Lambeth, Sierra 160  
Lamira, Jensine 235  
Lamm, Jared 207  
Lane, Lyndsey 66  
Langer, Diana 59  
Langevin, Nicole 136  
Langley, Erin 204, 230  
Lanyi, Shira 163  
Lara, Skylee 187  
Larabee, Drew 46  
Larkin, Gabriela 193  
Larson, Chelsea 129  
Larson, Emily 229  
Larson, Mitchel 190  
Lashley, Marsha 140  
Laskary, Andrew 182

## Index by Presenter

- Lason, Victoria 141  
Lassonde, Karla 37  
Lathe, Cody 131  
Lato, Ashley 215  
Latourette, Monique 223  
Lau, Zachery 69  
Lauzon, Shelby 95  
Lavallee, Richard 164  
LaVergne, Emily 144  
Lawrence, Jacintha 209  
Lawson, Temiloluwa 211  
Le, Nhan 209  
Le, Trang 168  
Le Bleu, Heather 222  
Leach, Nykia 67  
Leaf, Jennifer 65, 74  
Leboffe, Emily 160  
Lebsack, Luke 47  
Leckel, Ryan 157  
Lecus, Ryan 208  
Leddin, Emily 133  
Ledesma, Roselee 215  
Lee, Anesha 75  
Lee, Christine 78  
Lee, Crystal 235  
Lee, Jihyun 143  
Lee, Nathan 209  
Lee, Peter 81  
Lee, Sean 225  
Lee, Sze Wah 147  
Leeper, Spencer 201  
LeGarde, Selena 219  
Legg, John 70  
Leggins, Autumn 126  
Leichtfuss, Amanda 205  
Leidholt, Savanah 224  
Lekah, Emily 237  
Lemon, Phoebe 48  
Lengel, Brandon 177  
Lensegrav, Shaley 86  
Lent, Kirra 104  
Leonard, William 146  
Leonard, III, Richard 181  
Leong, Xing Yee 51  
Leonhardi, Isaac 183  
Lester, Beth 46  
Letch, Cameron 224  
Levano, Josh 230  
LeVine, David 46  
Levingston, Trevor 124  
Levy, Cassidy 217  
Lew, Samantha 147  
Lewis, Marriah 221  
Lewis, Taylor 156  
Lewis, Timothy 62  
Lewis, Zachary 190  
Lewis Polsky, Tessa 215  
Li, Mengchi 147  
Li, Xinran 56  
Li, Xitong 111  
Liang, Chen 123  
Liberti, Sarah 99  
Lien, Fiona 194  
Liles, Jennifer 69  
Lillehaugen, Matthew 114  
Lim, Emmanuel 189  
Lim, Joseph 45  
Limberis, Argie 85  
Lin, Julia 142  
Lin, Tracy 179  
Lindberg, Charles 160  
Lindsay, Jaidha 43  
Lindsay, Megan 179  
Lindsey, Chance 160  
Ling, Joyce 122  
Lipari, Stephanie 98  
Lipshaw, Ashley 196  
Liu, Amanda 103  
Liu, Jenny 212  
Livingston, Jamie 106  
Lloyd, Victoria 63  
Lloyd, Zachary 132  
Lockard, Brigid 98  
Lodhi, Humera 96  
Loh, Samantha 141  
Lohbauer, Sara 100  
Lomax, Victoria 156  
Lombardi, Angelina 98  
London, Chloe 99  
Lonetti, Olivia 202  
Long, Bryan 179  
Long, Emily 114  
Long, Patrick 93  
Long, Samuel 116  
Longenecker, Deborah 108  
Loomba, Niharika 197  
Looper, Grant 58  
Lopez, Lizbeth 211  
Lopez, Maria 177  
Lopez, Will 42  
Lopez Alonso, Pablo 58  
Lopez Reyes, Yessenia 128  
Lopp, Andy 218  
Lorenc, Miranda 121  
Lose, Adam 40  
Louie, Sara 40  
Love, Amber 163  
Love, Casey 169  
Lovett, Aunteia 69  
Low, Natalie 207  
Lowry, Nathan 161  
Lozano, Veronika 102  
Lu, Jiayue 100  
Lubliner, Samantha 211  
Luckin, Zachary 89  
Ludeman, Katherine 92  
Luevano, Edgardo 175  
Lugo, Yulie 178  
Lui, Kent 211  
Luo, Laura 185  
Lusso, Maria 169  
Lutz, Benjamin 127  
Lybbert, Meg 137, 180  
Lyden, Chloe 53  
Lydner, Rashana 58  
Lydon, Mikayla 78  
Lynch, Kyle 61, 117  
Lynch, Kyriana 77  
Lynch, Madalyn 47  
Lynch-Alexander, Erin 36

## **M**

- Ma, Daniel 172  
Ma, Yizhou 236  
Macauley, Kellie 90  
Mace-Rodon, Sarah 198  
Machado, Zachary 41, 172  
Machamer, Ashley 171  
Maciel, Samantha 107  
Macisco, Kaitlyn 87  
MacKay, Grace 77  
MacKenzie, Logan 189  
Mackiewicz, Alayna 176  
Maczewski, Jenna 207  
Madden, Janna 144  
Madge, Victoria 204  
Maes, Joseph 233  
Maezumi, Ayana 157  
Magan, Mary 120  
Magruder, Briana 219  
Mahabaduge, Hasitha 37  
Mahaffy, Kelly 113  
Mahmoud, Dalal 237  
Mahmoud, Nour 214  
Maio, Shannon 154  
Majer, Helen 195  
Major, Catherine 133  
Mak, Jennifer 228  
Malcolm, Nicholas 212  
Maldonado, Martin 89  
Maldonado, Veronika 227  
Maldonado-Rivera, Shamir 173  
Maldonado-Vélez, Sebastián 49, 96  
Malecha, Katelynn 170  
Malik, Mohsyn 152

## Index by Presenter

- Malin, Whitney 189  
Malinowski, Konrad 38, 39  
Malloy, Rachel 216  
Mallozzi, Lucia 217  
Malone, Dominique 88  
Malone, Timothy 108  
Maloney, Shannon 162  
Maloney, Troy 211  
Mandan, Nayan 213  
Mann, Elise 199  
Manusia, Olivia 117  
Mao, Zhiqi 102  
Markey, Jessica 153  
Markman, Elisabeth 39  
Marks, Amanda 206  
Marolf, David 64  
Marotta, Julianna 102  
Marroquin-Villa, Yahaira 205  
Mars, Nicholas 189  
Marsh, Anna 179  
Marshall, Alexa 98  
Marshall, Christopher 182  
Marshall, Joshua 79  
Marshall, Sarah 226  
Martell, Kjirstin 108  
Martelli, Mia 38  
Martin, Delaney 162  
Martin, Jennifer 189  
Martin, Kristen 166  
Martin, Mary 114  
Martin, Sarah 143  
Martinez, Jesus 39, 143  
Martinez-Ibanez, Eduardo 154  
Marton, Christina 218  
Masella, Alec 128, 135  
Maska, Richard 50  
Mason, Heather 185  
Mason, Morgan 199  
Mason Basiliere, Chelsea 121  
Massey, Alyssa 115  
Massey, Rebecca 143  
Masters, Stephanie 194  
Matei, Christine 151  
Mathewson, Carly 165  
Matrassi, Kaityn 155  
Matson, Ashton 226  
Matt, Jonathan 188  
Matta, Amanda 90  
Matta, Maria 195  
Mattfeld, Jeremy 207  
Matveeva, Toma 176  
Maupin, Callen 227  
Mauro, Sabatina 215  
Mausteller, Emily 206  
Maxino, Monica 68  
Maxwell, Matt 231  
May, Regan 216  
May, Xavier 203  
Maya, Jessica 151  
Maya-Callen, Martina 53  
Mayer, Timothy 123  
Mazzola, Rachel 155  
McAnany, Abby 173  
McArthur, Chanelle 208  
McBride, Julian 211  
McBride, Madelaine 128  
McCabe, Bobby 164  
McCalidaine, Ella 115  
McCandless, Victoria 112  
McCartney, Julia 175  
McCauley, Madison 70  
McClantoc, Keshia 95  
McCravy, Anna-Catherine 98  
McCray, William 92  
McCroskey, Matthew 125  
McCuen, Lindsay 73  
McDaniel, Jessica 207  
McDermott, Joseph 133  
McDonnell, Anna Margaret 54  
McDougal, Keefe 166  
McDougal, Taylor 131  
McFadden, Taryn 93  
McFarland, Stuart 190  
McGaha, Jesse 140  
McGar, Ashley 178  
McCinnis, ReLiza 149  
McGlone, Michael 140  
McGrath, Alex 48  
McGuire, Joseph 39  
McIntire, Allie 200  
McIntyre, Kelcy 82  
McKenna, Kelsey 100  
McKenzie, Madeleine 202  
McKinney, Meghan 236  
McLean, Hillary 156  
McLean, Susan 130  
McLendon, Hannah 210  
McLeod, Madeline 139  
McMahon, Caleb 125  
McMullin, Margaret 198  
Meacham, Hailee 123  
Meadors, Quinten 185  
Meagher, Greer 183  
Medina, Arianna 168  
Medina, Daniela 194  
Medina, Juan 126  
Mehdi, Batool 204  
Mehdi, Zehra 208  
Mehlrose, Mikaela 53  
Mehta, Milauni 177  
Meister, Nicole 194  
Meixner, Kayla 155  
Mekhail, Martin 111  
Meko, Joseph 139  
Melander, Gunther 154  
Melendez, Edith 67  
Melly, Erin 170  
Melson, Caroline 191  
Melton, Timothy 115  
Melvin, Alyssa 45  
Menalled, Uriel 197  
Mendes, Hector 147  
Menke, Bryson 114  
Mentari, Odilia 118  
Mericle, Mandy 132  
Merseli, Jelena 141  
Mesa, Carmen 44  
Messbarger, Lauren 189  
Messinetti, Jacqueline 48  
Messner, Catherine 233  
Messner, Ellen 53  
Meyberg, Kimberly 168  
Meyer, Danielle 73  
Meyer, Martha 131  
Meyers, Caroline 108  
Meyers, Lauren 96  
Meza, Krystal 91  
Michel, Kerlin 70  
Michel, Stephanie 124  
Mickler, Shelby 128  
Middlebrooks, Jordan 152  
Mikenis, Robert 144  
Mikolajczak, Monika 159  
Mikosch, Josie 224  
Milburn, Gregory 144  
Miles, Deveny 38  
Miles, Maraina 116  
Miller, Amanda 73, 151, 152  
Miller, Anna 180  
Miller, Doryan 100  
Miller, Emily 225  
Miller, Jazmin 99  
Miller, Nathan 63  
Miller, Patricia 182  
Miller, Paul 123  
Miller, Stefanie 158  
Miller, Peter 233  
Mills, William 150  
Millward, Joseph 57  
Milosz, Alyssa 79  
Mims, Angel 207  
Minassian, Gabrielle 75  
Miner, Brandon 151  
Miner, Kristin 142  
Ming, Zishan 147

## Index by Presenter

- Mingo-Dabney, Michael 216  
Minhas, Jaya 183  
Mire, Leon 136  
Mireles, Rodrigo 47  
Miskell, Robert 128  
Mitchell, Hannah 191  
Mitchell, Jan 156  
Mitchell, Katherine 47  
Mitchell, Ken 83  
Mitchell, Tyler 171  
Mize, Brandi 82  
Mize, Jonathan 66  
Mlynek, Brittany 78  
Mobley, Andrea 233  
Mobley, Devon 169  
Modha, Nidhi 46  
Moefu, Kawehiokekai 224  
Moeller, Molly 169  
Moffatt, Synclaire 81  
Mohamed, Fathima 109  
Mohammad, Ibrahim 92  
Mohan, Devesh 102, 162  
Mokashi, Mugdha 74, 184  
Momoh, Ibrahim 207  
Monke, Amanda 76  
Monteith, Reagan 100  
Moore, Bridget 202  
Moore, Joneisha 167  
Moore, Lewis 131  
Moore, Margaret 61, 80  
Moore, Savannah 149  
Moot, Caroline 94  
Morales, Cindy 131  
Morales, Michael 158  
Morales Gomez, Adriana 64  
Morgan, Grace 166  
Morin, Justin 93  
Morioka, Wesley 214  
Morris, Rebecca 147  
Morris, Shea 75  
Morris, Shelby 230  
Morris-Bates, Taylor 164  
Morrison, Casey 165  
morrison, danielle 210  
Morrow, Brandon 57  
Morser, David 157  
Morsovillo, Jack 53  
Mortensen, Arnbjoern 87  
Morthera, Cassandra 178  
Moses, Natalie 141  
Mosher, Samuel 60  
Moss Hawkins, Arthur 66  
Mounir, Abdulghani 214  
Mousavizadegan, Nichole 199  
Moya, Cecilia 101  
Moya, Maricruz 103  
Mozuch, Joseph 176  
Mubarik, Khadija 197  
Muckin, Andrew 159  
Mueller, Emmi 91  
Mueller, Mary Kate 76  
Muldowney, Meghann 64  
Mundorf, Rusty 174, 193  
Mundy, Jessica 77, 188  
Munlyn, Ambra 45  
Munoz, Marissa 151  
Munson, Kaila 99  
Murphy, Ashley 57  
Murphy, Bridget 219  
Murphy, Christa 145  
Murphy, Jenna 49  
Murphy, Madison 125  
Murray, Casey 193  
Murray, Jacqueline 210  
Murray, Sarah 102  
Murrietta, Kimberly 139  
Muscatello, Jacqlyn 235  
Musgrove, Olivia 99, 211  
Musselman, Ryan 176  
Mwaniki, Kwendo 198  
Myers, Courtney 153  
Myers, Wendy 139  
Myklebust, Livianna 83  
Myrman, Lacy 90
- N**
- Nagel, Vincent 222  
Nahrwold, Bryan 46  
Naidu, Rashmi 89  
Nameniuk, Amanda 115  
Nance, Bailey 149  
Narayanan, Annapoorani 183  
Nault, Emma 188  
Navarrete, Emilio 154  
Navarro Suarez, Diana 57  
Naylor, Megan 197  
Nazzaro, Katherine 112  
Neal, Jennifer 213  
Neal, Nicholas 144  
Nedd, Eboney 232  
Neitzke-Spruill, Logan 130  
Nelson, Afton 52  
Nelson, Chavez 159  
Nelson, Colin 164  
Nelson, Michael 88  
Nelson, Patrick 237  
Nelson Wicks, Faurest 74  
Nelson-Angelsea, Caulin 155  
Nennig, Hannah 187  
Nesbit, Angeline 229  
Neumann, Anne 153  
Nevin, Rachael 111  
Newman, Callie 94  
Newman, Hannah 155  
Newman, Shawna 50  
Newsom-Stewart, Catherine 194  
Ng, Mario 181  
Ngo, Gerald 219  
Nguyen, Jack 142  
Nguyen, Kevin 204  
Nguyen, Nhat 193  
Nguyen, Nina 220  
Nguyen, Oanh 181  
Nguyen, Phuong 176  
Nguyen, Taylor 175  
Nguyen, Valerie 216  
Nicely, Owen 80  
Nichols, Laura 173  
Nickerson, Emily 188  
Nielesen, Jacob 188  
Niese, Allison 57  
Nieves, Amber 197  
Nilles, Kelsy 175  
Niner, Hanna 97  
Nitti, Samantha 219  
Nizich, Kathleen 197  
Njeru, Stephanie 87  
Noah, Emillie 205  
Nobblitt, Christopher 224  
Noh, Hayne 63  
Noland, William 134  
Nolen, Hunter 158  
Noll, Samantha 224  
Noritake, Sabrina 167  
Norman, Samuel 206  
Northrup, Samuel 131  
Norton, Claire 174  
Nosowitz, Jonathon 193  
Nour, Baker 65  
Nowland, Robert 130  
Nuccio, Angela 190  
Nussman, David 86  
Nuzzo, Jacqueline 150  
Nyhuis, Kelsie 152
- O**
- O'Brien, Cody 170  
O'Connor, Brendan 202  
O'Connor, Margaret 67  
O'Malia, Caroline 96  
O'Malley, Jessica 236  
O'Neill, Allison 80  
O'Quinn, Erin 178  
O'Reilly, Danielle 77  
O'Rourke, Amelia 237

## Index by Presenter

O'Shaughnessy, Sydney 86  
O'Sullivan, Brona 168  
Oakes, Leanne 96  
Oakley, Jacob 115  
Obieroma, Stephanie 219  
Ochieng, Ivy 163  
Ochoa, Emily 156  
Ochoa, Natalie 200  
Odam, Seth 228  
Odom, Matthew 144  
Oeschgger, Taylor 73  
Oestreich, Haley 235  
Oey, Lauren 190  
Ohnemus, Erin 85  
Ojo, Oluwaseyi Matthew 93, 122  
Oki, Kohei 188  
Olinger, Anna 81  
Oliver, Mitchell 70  
Olms, Chelsea 184  
Olsen, Danielle 227  
Olson, Matthew 223  
Olsson, Trevor 236  
Omar, Aya 159  
Ong, Aaron 184  
Ong, Joshua 212  
Onyejegbu, Chukwudi 187  
Op't Hof, Lincoln 96  
Opse, McKenzie 192  
Opseth, Joseph 126  
Orjuela, Juan 212  
Orman, Joseph 117  
Orner, Amy 90  
Ortega, Mayra 80  
Orth, Wesley 172  
Ortuno, Jaquelin 98  
Osborn, Rebecca 145  
Osborne, Emily 105  
Oshinski, Paul 156  
Osisami, Oladele 198  
Osle, Emma 108, 132  
Osorio Granda, Maria Camila 186  
Osterbauer, Karl 165  
Ostrow, Emily 64  
Othman, Nura 194  
Otley, Thomas 87  
Ottinger, Sarah 207  
Otto, Christine 157  
Owens, Emily 106  
Owens, Hannah 142  
Owens, Megan 78  
Owens, Trevor 67  
Owoc, Daniel 201  
Owusu, Danielle 98  
Ozburn, Christian 173

**P**  
Pacas, Erika 109  
Pace, Sarah 167  
Pacini, Emily 136  
Page, Emily 230  
Paik, Grace 66  
Palacio, Hayes 223  
Palacios, Israel 83  
Palmer, David 111  
Palmer, James 65  
Palmer, Megan 120  
Paly, Stephanie 172  
Pang, Sharon 231  
Paoli, Elizabeth 65  
Papaleo, Cassandra 74  
Paragas, Alastair 130  
Parchani, Harsha 159  
Pare, Julia 128  
Parenti, Krista 201  
Park, Rita 153  
Park, Rosa 231  
Parker, Amy 182  
Parker, Kathleen 160  
Parker, Marisa 60  
Parmley, Alexander 41  
Parriott, Geoffrey 181  
Parrish, Austin 82  
Parrish, Maddie 78  
Paruta, Amanda 125  
Pasala, Monica 229  
Passialis, Stephanie 104  
Patel, Dhruvee 73  
Patel, Ilesh 142  
Patel, Needhee 230  
Patel, Ravi 227  
Patel, Yash 155  
Patino, Jesus 201  
Patrick, Catherine 164  
Patriquin, Hannah 57  
Patton, Nathaniel 234  
Patullo, Caitlyn 110  
Patzanovsky, Christopher 119  
Paul, Bianca 223  
Paul, Delize 220  
Pavelka, Meghan 80  
Pawlak, Robert 172  
Payne, Kaela 213  
Payton-Page, Katelyn 104  
Pearl, Erik 100  
Pease, Sarah 210  
Pederson, Kayla 100  
Pedrotti, Helena 119  
Pehowic, Claudia 79  
Pendola, Julia 233  
Penley, Miranda 132  
Penton, Melissa 44  
Peoples, Jacob 130  
Peralta, Angel 232  
Perera, Pattamestrige 153  
Perez, Brian 228  
Perez, Chelsey 178  
Perez, Mildred 222  
Perez-Munoz, Andrea 116  
Peronto, Adam 87  
Perritt, Haley 125  
Perry, Laura (LJ) 42  
Perry, Tara 217  
Persaud, Brandan 86  
Pesa, Marisa 113  
Peters, Hannah 168  
Peters, Jacob 118  
Petersen, Cora 117  
Peterson, Linnea 66  
Petro, Benjamin 137  
Petryk, Suzanne 214  
Pettit, Mark 174, 220  
Pfaff, Morgan 222  
Pfister, Kris 41  
Pflueger, Madilyn 129  
Pham, Ashley 234  
Pham, Jonathan 208  
Phelan, Anne 107  
Phelps, Samantha 73  
Philippe, Alexis 109  
Philippi, Sarah 203  
Phillips, Casey 70, 107  
Phillips, Dallas 56  
Phillips, Paige 223  
Phillips, R. Christian 130, 136  
Phillips, Simon 39  
Phung, John 200  
Piasecki-Masters, Colette 126  
Piatti, Nicole 124  
Pickett, Samuel 105  
Piedrahita, Lucas 45  
Pierce-Messick, Rosemary 52  
Pigg, Joshua 226  
Pilecki, Maksymilian 92  
Pineda, Gia 53  
Pinnamaraju, Sriharsha 195  
Pippin, Brandon Pippin 205  
Pisarcik, Kristen 221  
Pittman, Stephanie 65  
Plaster, Ashley 220  
Platt, Anna 212  
Plaza-Rodriguez, Alma 184  
Plemons, Nathaniel 96  
Poindexter, West 58  
Polgreen, Heather 92  
Polk, Dorean 61

## Index by Presenter

- Pollard, Kylah 235  
Pomposello, Michelle 91  
Ponthieu, Penelope 154  
Popowich, Natasha 53  
Porciuncula, Juliene 137  
Post, Megan 71  
Potharaj, Namratha 176  
Potter, Jade 152  
Potter, Jolene 133  
Potter, Nicholas 139  
Pounds, Emily 110  
Poupore, Nicolas 225  
Powers, Abigail 77  
Prasser, Stephanie 233  
Prather, Cassie 163  
Prather, Chris 38  
Prather, Lauren 76  
Pratt, Aerial 196  
Prelvukaj, Gent 64  
Prenkocevic, Andrea 44  
Preston, Joshua 83, 147  
Prettyman, Megan 69  
Price, Meghan 213  
Price, Tyechia 235  
Prince, Deja 228  
Pringer, Sarah 179  
Priore, Maria 48  
Pritt, Jordan 225  
Provenzano, Luke 69  
Prskalo, Ena 109  
Pruitt, Ida 81  
Pruitt, Peyton 199  
Pruitt, Reggie 101  
Psaledas, Jenelle 201  
Puckett, Jocelyn 233  
Puett, Kevin 84  
Pugh, Michael 122  
Purinton, Anthony 130  
Purvis, Joshua 212  
Pye, Mu 202  
Pyszka, Kevin 45
- Q**
- Quan, My 221  
Quarnstrom, Donya 84  
Quickel, Rebekah 101  
Quigley, Alexandria 183  
Quinlan, John 118  
Quintero, Ana 214
- R**
- Rader, Lynne 117  
Radulovich, Kylee 166  
Ragan, Abby 57  
Rahhal, Jeelan 231  
Rajnarayanan, Rohini 191  
Rajput, Bijal 124  
Raker, Lindsey 200  
Rakitina, Evgeniya 168  
Rakotoarisaona, Henintsoa 124  
Raman, Vineet 94  
Ramelow, Christina 222  
Ramesh, Sruthi 206  
Raminpour, Leila 220  
Ramirez, Elaine 203  
Ramirez, Justin 161  
Ramirez, Patricia 119  
Ramsey, Erin 178  
Ramsey, Lauren 48  
Ramsey, Shae 121  
Randall, Jordyn 78  
Randles, Khirsty 135  
Rangel, Vanessa 187  
Rashford, Rebekah 73  
Ratcliffe, Brycen 148  
Ratzlaff, Hannah 105  
Rauf, Senuri 180  
Rawls, Kevyanna 135  
Ray, Jack 226  
Raymond, Thomas 221  
Reagan, Lydia 41  
Rector, Madeline 167  
Reding, Madeline 175  
Redmond, Bryce 115  
Reece, Monica 185  
Reed, Taylor 235  
Rego, Victoria 136  
Rehm, Hunter 45  
Reichenbach, Haley 158  
Reid, Esthanette 232  
Reid, Tim 218  
Reilly, Samantha 98  
Reilly, Sarah 131  
Reines, Rara 138  
Reissig, Michelle 57  
Reiter, McKenna 180  
Rejimon, Abinand 184  
Ren, Colin Hang 40  
Render, Jasmine 122  
Rennie, Blake 204  
Resende-Barros, Jonathan 46  
Reukema, Jessica 217  
Rex, Maya 208  
Reyes, Destiny 136  
Reyes, Everardo 106  
Reyes Gaibor, Felip 223  
Reynolds, Kevin 49  
Rezentes, Christina 107  
Rhodes, Andrew 168  
Rhodes, Elizabeth 70  
Riccobono, Rosamaria 122  
Rice, Hannah 59  
Rice, Jennifer 161  
Rich, Barry 187  
Richards, Abel 215  
Richardson, Julia 226  
Richardson, Teresa 72  
Riddle, Jacob 107  
Riedeman, Lauren 216  
Riederer, Alanna 192  
Riera, Victoria 166  
Riesenbergs, Andrew 154  
Rigel, Nicholas 231  
Rinehart, Adam 72  
Rinehart, Jessica 210  
Rippe, Margaret 68  
Ripperton, Jenna 227  
Risch, Katelyn 135  
Rishell, Matthew 173  
Rising, Kelsey 95  
Risner, Alyssa 145  
River, Nicole 63  
Rivera, Natalia 88  
Rivers, Imani 80  
Roan, Danyelle 166  
Robbins, Taylor 210  
Roberson, Wendell 166  
Robert, Celeste 209  
Roberts, Laura 210  
Roberts, Melissa 97  
Roberts, Michaela 221  
Roberts, Ronnie 103  
Roberts, Shelby 70  
Robertson, Jacob 110  
Robertson, Leslie 86  
Robinson, Camron 79  
Robinson, Char'Mane 168  
Robinson, Daniel 172  
Robinson, Emily 133  
Robinson, Joseph 89  
Roby, Cassidy 199  
Rocco, John 178, 206  
Rockwell, Jordan 72  
Roddick, Jaden 158  
Rodgers, Charles 231  
Rodriguez, Benancio 111  
Rodriguez, Brisa 105  
Rodriguez, Brooke 68  
Rodriguez, Dana 83  
Rodriguez, Daniela 67  
Rodriguez, Jose 73  
Rodriguez, Natalia 48  
Rodriguez, Samantha 97  
Rodriguez, Victoria 86

## Index by Presenter

- Rodriguez Sala, Martina 57  
Roesler, Alanna 145  
Rogan, Alyssa 104  
Rogan, Shana 56  
Rogers, Phoenix Rogers 55  
Rogers, Rendi 173  
Rogers, Samantha 135  
Rojas, Ashley 56  
Rojas Garcia, Victor 199  
Roland, Carmen 175  
Roman, Lilibeth 40  
Roman, Rachel 207  
Rondon, Alberto 140  
Roper, Christopher 218  
Rosas, Natalie 107  
Rose, Lucia 115  
Rose, Meaghan 109  
Rose, Starlina 87  
Rosencrans, William 64  
Rosenvall, Marla 49  
Ross, Kimberly 146  
Ross, Kyler 115  
Ross, Robert 110  
Rossi, Joe 69  
Rossi, Marissa 150  
Roth, John 158  
Roth, Miriam 225  
Rowen, Leslie 113  
Roy, Emily 228  
Roznovjak, David 187  
Rubitschung, Katie 150  
Rucci, Gabriel 168  
Rudisell, Rebecca 169  
Rudolph, Christopher 70  
Rudolph, Elisa 136  
Rudolph, Jonathan 152  
Ruggiero, Emily 67  
Ruprecht, John 207  
Russell, Alison 50  
Russell, Bethany 182  
Russell, Lea 204  
Russell, Robert 58  
Russotti, Haley 200  
Rust, Christian 214  
Rutstrom, Daniel 236  
Rystedt, Connor 120  
Ryumae, Ken 144
- S**  
Sabaghian, Avisha 94  
Sablan, Estefania 65  
Sacco, Jennifer 131  
Sacher, Grace 40  
Sachs, Madi 67  
Sagan, Olivia 195  
Sager, Charly 74  
Sager, Joshua 223  
Sakhawala, Rima 109  
Saladin, Christopher 50  
Salazar, Samantha 152  
Salazar Jr., David 167  
Saldivar, Christopher 130  
Salerno, Maria 191  
Salhab, Arwa 56  
Salig, Lauren 71  
Salituro, Leah 177  
Saluga, Shannon 232  
Samerdyke, Ethan 95  
Sams, Ronald 188  
Sánchez Navarro, Marcos 220  
Sandoval, Aaron 141  
Sanjinez, Victor 80  
Santistevan, Dorothe 90  
Santos, Theresa 155, 169  
Sapata, Gabrielle 40  
Sarsour, Nadeen 156  
Sasser, Savannah 114  
Sassi, Joshua 150  
Sathish, Bhargav 167  
Sauer, Christina 213  
Sauls, Rebekah 81  
saulsberry, jenalle 53  
Saulsbury, Alexandra 52  
Sauro, Dana 157  
Savage, Annie 154  
Savant, Elizabeth 78  
Scales, Laura 158  
Scalese, Marissa 66  
Scarborough, Amelia 124  
Scarimbolo, Katrina 217  
Schade, Melissa 136  
Schaeffer, Ericka 197  
Schaelein, Kelsey 112  
Schafer, Morgan 92  
Scheel, Ocean 58  
Schell, Lora 194  
Scherf, Aaron 102, 139  
Scherkenbach, Hannah 229  
Schiedemeyer, Katrina 84  
Schiller, Lisa 135  
Schindler, Claire 165  
Schladweiler, Collin 61  
Schlueter, Kristin 89  
Schmidtkofer, Kyle 110  
Schmidt, Kirsten 150  
Schmitt, Hannah 225  
Schmitz, Jake 190  
Schmitz, Sara 164  
Schneider, Alison 168  
Schoeps, Erika 49  
Schrader, Abigail 146  
Schrank, Zachary 222  
Schreifels, Paige 189  
Schroeder, Mallory 144  
Schroering, Abby 58  
Schultz, Allie 60  
Schultz, Hayley 122  
Schumacher, Mariah 202  
Schupp, Benjamin 216  
Schutzman, Brenna 194  
Schwartz, Alec 141  
Schwartz, Megan 189  
Scienna, Luana Oh 61  
Scott, Alina 226  
Scott, Jimmy 53  
Scott, Samantha 231  
Scrudato, Melody 200  
Sdao, Michelle 138  
Seals, Nathaniel 186  
Sears, Chandler 152  
Seaton, Blake 160  
Sech, Michelle 101  
Secor, Jacob 72  
Seidel, Amber 196  
Seidman, Megan 170  
Sekoulopoulos, Stephen 73, 82  
Sellers, Bridget 68  
Semonic, Boris 185  
Sergeant, Meghan 236  
Setzer, Kayla 98  
Severson, Cassandra 191  
Sexton, Kerri 215  
Shabman, Jamie 189  
Shah, Daniel 181  
Shaikh, Sameer 173  
Shamhart, Ashley 133  
Shanahan, Jenny 36  
Shangase, Nosipho 47  
Shannon, Bryson 162  
Sharif, Tanjila 158  
Shaw, Morgan 95  
Shay, Samantha 187  
Shearer, Erika 153  
Shedd, Amber 215  
Sheehy, Taylor 203  
Sheffield, Sarah 214  
Sheikh, Muhammad 114  
Shekhar, Vibha 88  
Shelvik, Adam 184  
Sheppard, Kary 59  
Sherrer, Gabrielle 163  
Shi, Ao 221  
Shields, Amber 162  
Shirley, Luke 192  
Shmilovich, Kirill 85

## Index by Presenter

- Shoemaker, Travis 143  
Shongov, Pauline 41  
Shore, Bambi 171  
Short, Rachel 224  
Shoulak, Brianna 109  
Shouse, Emma 117  
Showers, Hanna 118  
Shrestha, Sabi 221  
Shryock, Nancy 233  
Shum, Jamie 126  
Shyne, Perrin 228  
Sicking, Ursula 167  
Siddiqui, Safia 186  
Siegfried, Tabitha 216  
Sigler, Brock 118  
Siler, Nathaniel 134  
Sillart, Sydney 169  
Silver, Joshua 84  
Silverman, Brian 234  
Simmons, Taylor 161  
Simon, Torri 55  
Simonson, Thomas 49, 121  
Simpson, Alexander 217  
Sin, Kai 174  
Sindelar, Danielle 156  
Singh, Rohini 109  
Singleton, Evan 91  
Sinha, Vidushi 40  
Sinowetski, Robert 44  
Sipes, Nicholas 93  
Sissoko, Fanta 112  
Skarr, Alexander 70  
Skatrud, Olivia 161  
Skelton, Victoria 63  
Skibstead, Hollie 124  
Skinner, Holly 71  
Skinner, Robert 220  
Skoric, Danica 53  
Slack, Tina 223  
Sliman, David 212  
Sloan, Amanda 174  
Sloey, Elise 66  
Sluka, Christina 178  
Smeltzer, Sarah 93  
Smith, Andrew 163  
Smith, Ashley 230  
Smith, Autumn 54  
Smith, Ayana 143  
Smith, Bridget 57  
Smith, Carrie 162, 225  
Smith, Ciarra 174  
Smith, Corey 162  
Smith, Cullen 87  
Smith, Daniel 91  
Smith, David 182  
Smith, Emily 202  
Smith, Eric 106  
Smith, Hannah 41  
Smith, Ian 176  
Smith, Jamie 137  
Smith, Karah 198  
Smith, Kiera 197  
Smith, Luke 191  
Smith, Makayla 86  
Smith, Natalie 168  
Smith, Nichole 136  
Smith, Silvia 105  
Smithson, Tatiana 157  
Smoot, Alexis 234  
Snider, Kaleigh 138  
Snopkowski, Randi 155  
Snouse, Sarah 61  
Snyder, Rachel 178  
Soares, Camilla 177  
Solorzano, Waleska 136  
Soloviev, Anton 206  
Somasundaram, Eashwar 203  
Somsaale, Meghana 224  
Son, DaHee 42  
Song, Zhi 119  
Soong, Alva 85  
Sostaita, Daniela 115  
Sotelo, Sierra 106  
Soucek, Jonathan 61  
Souder, Olivia 158  
Spaid III, William 161  
Spangler, Mallory 183  
Spanier, Abigail 81  
Spanjers, Jeanette 84  
Spears, Ataya 213  
Speed, Sarah 185  
Spell, Kaitlin 224  
Spence, Laura 144  
Spencer, Evan 155  
Spicer, Savannah 228  
Spiel, Kayla 210  
Spigel, Madison 225  
Spivey, Makenzie 63  
Springer, Seth 169  
Sprinkle, Alisha 115  
Sridharan, Sreepradha 230  
Srivastava, Niharika 134  
Sroka, Christian 65  
Stadler, Rachel 101  
Stall, Micah 218  
Stallcup, Ryan 154  
Stanley, Adam 197  
Stapleton, Cynthia 216  
Starnes, Andrew 140  
Starr, William 56  
Stay, Marshall 174  
Steblina, Anastasia 112  
Steel, Alexandra 161, 223  
Stehly, Marissa 182  
Stein, Aviel 178  
Stenseng, Robert 236  
Stephens, Olivia 159  
Stephenson, Sharon 187  
Stern, Jesse 97  
Stevens, Katherine 103  
Stevens, Simone 43  
Stevenson, Quinn 213  
Stewart, Hannah 208  
Stewart, Isaiah 181  
Stewart, Jamie 78  
Stewart, Lukas 62  
Steward, Rhani 134  
Stewart, Sarah 217  
Stieg, Jerry 46  
Stiemke, Andrew 214  
Stillman, Bailey 235  
Stiving, Lydia 155  
Stockman, Daniel 104  
Stoddard, Mary 202  
Stoffel, Tyler 155  
Stogner, Lauren 88  
Stohler, Caroline 200  
Stovall, Maura 86  
Stramaglia, Vita 64  
Stratton, Hannah 185  
Straub, Christiana 144  
Straussberger, Sara 81  
Street, Bennett 153  
Strickland, Robert 123  
Struzik, Zachary 101  
Stuart, Katherine 230  
Stubbs, Sarah 113, 128  
Stuczynski, Brianna 53  
Sturm, Sarah 70  
Suarez, Maria 120  
Sudhoff, Amanda 64  
Suemitsu, Aina 96  
Suen, Christopher 59  
Suleiman, Abdul-Rahman 193  
Sulka, Emily 125  
Sullivan, Ben 75  
Sullivan, Jenna 160  
Sullivan, Maggie 44  
Sultan, Fakhra 203  
Summers, Alycia 150  
Summers, Blair 157, 220  
Sumter, Meagan 217  
Sun, Anna 128  
Supple, Michaela 209  
Suresh, Sneha 212

## Index by Presenter

Suriel, Mariel 61  
Surya, Kevin 45  
Suter, Lois 189  
Svagr, Maria 236  
Svendsen, Molly 182  
Swafford, Tyler 123  
Swan, Samantha 76  
Swan, Travis 106  
Swett, Sara 117  
Swift, Kalley 71, 226  
Swilley, Lauren 61  
Swint, JaVon 100  
Swisher, Mariah 227  
Szabat, Jacqueline 234  
Szczupakiewicz, Rebecca 72  
Szyszka, Nicole 45

### T

Taam, Dylan 197  
Taber, Loni 68, 95  
Tablizo, Michelle 170  
Tacheny, Shannon 97  
Taiveaho, Emilio 135  
Tale, Ermin 175  
Tallant, April 36  
Tam, Michelle 179  
Tamashiro Orrego, Alessandra 166  
Tamimi, Aminah 102  
Tan, Jia 175  
Tandon, Tanya 135  
Tanner, Ravyn 198  
Tarabay, Austen 196  
Tarren, Anna 44  
Tatge, Lexus 193  
Tavares, Kendall 166  
Tawadros, Teresa 130  
Taylor, Andrew 213  
Taylor, Jada 197  
Taylor, Meg 133  
Taylor, Rebecca 149  
Taylor, Tamera 223  
Tchir, Sophia 224  
Tebben, Kieran 66  
Tellez Silva, Cinthia 220  
Teminsky, Cassidy 60  
Teneqexhi, Viktoria 68  
Tenore, Kayla 224  
Terry, Amanda 98  
Terry, Peyton 195  
Tesar, Danielle 161  
Tesori, Madelaine 157  
Teti, Michael 89  
Tetzke, Madeline 172  
Thapaliya, Pratima 73  
Thares, Melanie 167

Theriault, Julianna 149  
Thiessen, Christopher 114  
Thomas, Jaylon 88  
Thomas, Jennifer 36  
Thomas, Jordan 126  
Thomas, Patrick 45  
Thomas, Raj 159  
Thomas, Sharon 127  
Thomas, Susan 123  
Thomas, Symone 232  
Thompson, Alyssa 91  
Thompson, Brenna 91, 160  
Thompson, Jalen 126  
Thompson, Kathryn 44  
Thompson, Nicholas 138  
Tian, Tina 82, 214  
Tibbets, Lila 107  
Tillman, LaTaunya 64  
Tillson, Martha 183  
Tilsley, Alicia 216  
Tirrell, Samantha 43, 113  
Titus-Glover, Kyle 130  
Tiwari, Vishnu 173  
Tjie, Daniel 118  
Tjoelker, Madeleine 82  
Todd, Laura 208  
Toledo, Silvia 176  
Tolfa, Rebecca 192  
Tombari, Jamie 116  
Toms, Jiah 213  
Tong, Yi 70  
Toomey, Jacqueline 178  
Toone, Ashton 144  
Toriyama, Michael 156  
Toronto, Jonathan 105  
Torres, Beltran 194  
Torres, Manuel 159  
Toth, Evan 209  
Toumpas, Anastasia 85  
Townsend, Kiera 157  
Tracy, Megan 228  
Traeger, Tanya 197  
Tran, Adam 167  
Tran, Anvy 89  
Tran, Tammy 194  
Travis, Mary 89  
Tredway, Donald 101  
Treijis, Jessica 113  
Trent, Sarah 91  
Trezona, Allison 165  
Tribbett, Patrick 73  
Troupe, Benjamin 59  
Trout, Asher 90  
Troutman, Danielle 169  
Troutt, Melissa 48

Troyer, Adaya 210  
Truesdell, Erin 198  
Truong, Thanh 128, 135  
Tucci-Herron, Jessica 179  
Tucker, Jimmie 36  
Turkaly, Carolyn 120  
Turnbach, Michelle 190  
Turner, Emily 93  
Turner, Termaine 157  
Turnley, Jonathan 111  
Turonis, William 133  
Tushak, Sophia 55  
Tutunjian, Noelle 125  
Tyler, Mark 68  
Tyson, Kay 76

### U

Udoh, Karen 192  
Ulozas, Rachel 89  
Ulrich, Rachel 63  
Unvert, Katelyn 203  
Urbaez, Elisabeth 154  
Ussery, Elizabeth 79  
Utley, Olivia 83  
Utt, Rachel 234

### V

Valdes, Javier 117  
Valent, Kyra 195  
Valente, Kelly 186  
Van Berkel, Sandra 230  
Van Bolt, Olga 174  
Van Den Elzen, Gabriella 154  
van der Eijk, Danielle 46  
Van Eerden, James 80  
Van Hoof, Andrew 153  
Van Horn, Jackson 90  
Van Meir, Alexandra 124  
Van Meter, Ashley 69  
Van Tassel, Amy 230  
Vance, Nathan 60  
Vander Horst, Danielle Michele 54  
Vanderhoof, Nick 148  
Vandermaas-Peeler, Alex 60  
Vargas, Fabiola 107  
Varnas, Alanna 209  
Vasudevan, Vasupradha 214, 222  
Vaughan, Bethany 170  
Vechera, Anastasia 126  
Veenstra, Cassandra 52  
Veilleux, Shannon 159  
Velasco, Lidia 125  
Ventura, Frank 151  
Vequetini, Patricia 213

## Index by Presenter

Vesling, Alex 64  
Vick, Brandon 79  
Vilá Terrada, Fernando 197  
Villani, David 159  
Vincent, Joshua 154  
Viner, Riley 164  
Vinitsky, Hanna 186  
Violaris, Chrysanthi 100  
Visco, Angelo 47, 219  
Vogel, Meghan 70  
Voigtlaender, Thomas 129  
Vyas, Jayati 189

### **W**

Wade, Dianne 135  
Wages, Erin 58  
Wagner, Blaine 46  
Wagner, Kevin 208  
Wagnon, Elizabeth 123  
Wakeman, Denise 117  
Walcott, Sydney 156  
Walden, Niara 63  
Walker, Anna 192  
Walker, Courtney 91  
Walker, Lindsey 171  
Wallace, Marissa 40  
Wallace, Rebekah 38  
Waller, Katherine 162  
Wallick, Catherine 127  
Wallington, Brooke 49  
Walsh, Jennifer 54  
Walsh, Margaret 223  
Walter, Samuel 214  
Walters, vanesa 177  
Wang, Caroline 154  
Wang, Zhejian 206  
Ward, Allegra 211  
Warfel, Rebecca 125  
Wargofchik, Andrew 85  
Warnacutt, Camille Warnacutt 44  
Warrington, Clare 69, 123  
Washington, Rosetta 47  
Watanabe, Kino 228  
Watkins, Christopher 144  
Watkins, Ellen 81  
Watson, Kristiana 232  
Watson, Tykeena 181  
Watters, Amaya 195  
Weatherford, Reba 114  
Weaver, Parker 114  
Weaver, Shannon 92  
Webb, Nicole 40  
Wedal, Justin 215  
Wei, Alicia 54  
Wei, Yichen 188

Weinberg, Terin 77  
Weinelt, Elizabeth 56  
Weir, Mary 121  
Weiss, Lukas 59  
Welch, Christina 230  
Wells, Olivia 39  
Weltzer, Madeline 222  
Wendt, Trevor 231  
Wenger, Carter 86  
Wenker, Elizabeth 176  
Wermeling, Rebeka 179  
Werner, Courtney 121  
Werner, Lacie 118  
West, Hallie 104  
Westholm, Brandon 182  
Westlake, Quinn 43  
Wheeler, Amy 123  
Whelan, James 159, 187  
Whisler, Clay 95  
White, Michael 145  
White, Traja 134  
Whitener, Wilson 69, 79  
Whiting, Alyssa 149  
Whitman, Brandi 225  
Whitman, Peter 171  
Whitman, Rachel 90  
Whitney, Brendan 163  
Whitney, Megan 205  
Whitney, Olivia 77  
Wickens, Karana 191  
Wiebelhaus, Nancy 109  
Wiersma, Codi 146  
Wiggins, Melanie 191  
Wijesinghe, Don 155  
Wilbanks, Brandon 158  
Wilcox, Jennifer 150  
Wilkinson, Sheridan 55  
Williams, Alayna 69  
Williams, Alexa 215  
Williams, Alyssa 161  
Williams, Elizabeth 47  
Williams, Eric 74  
Williams, Garrett 142  
Williams, Keeley 203  
Williams, Leah 184  
Williams, Lexie 47  
Williams, Michael 171  
Williams, Micheal 122  
Williams, Tyler 170  
Willis, Berkeley 232  
Willis, David 197  
Willis, Jenny 91  
Willis, Michael 204  
Willis, Moriah 198  
Willis, Rachel 105

Wilson, Dwight 206  
Wilson, Dylan 99  
Wilson, Elizabeth 140  
Wilson, Jordan 45  
Wilson, Lauren 83  
Wilson, Matthew 192  
Wilson, Preston 60  
Wilson, Zoey 217  
Wimberly, Jessica 146  
Wingert, Emma 165  
Wingert, Kaitlin 58  
Winn, Carly 204  
Winnicki, Liv 128  
Winslett, Mary-Elizabeth 107  
Winters, Veronica 93  
Winzer, Sara 221  
Withers, Elizabeth 151  
Wodarek, Joseph 54  
Woeltje, John 137  
Wohlschlaeger, Andrew 61  
Woldemariam, Katim 119  
Wolf, Ian 84  
Wolf, Leah 205  
Wolk, Aileen 186  
Wollmuth, Emily 59, 91  
Wolodkin, Daniel 141  
Won, Harim 195  
Wong, Crystal 60  
Wood, Weston 118  
Woodard, Andrew 192  
Woods, Elena 103  
Woods, Samuel 218  
Woody, Megan 85, 160  
Worcester, Savannah 84  
Woten, Katelyn 74, 231  
Woyda, Reed 195  
Wright, Alec 186  
Wright, Joi 203  
Wright, Salem 111  
Wright, Victoria 176  
Wu, Kevin 145  
Wu, Oscar 214  
Wu, Xiya 127  
Wurster, Michael 207  
Wyand, Sarah 146  
Wyant, Katherine 233  
Wyatt, Riley 145  
Wyatt, Torrey 237  
Wyman, Bethany 138  
Wynne, Jonathan 88

### **X**

Xia, Da Qi 126  
Xia, Di 186  
Xiao, Jennifer 222

## Index by Presenter

Xiong, Ger 40  
Xu, Xin (Sandy) 147  
Xu, Yao 218  
Xue, Zishan 46

### Y

Yacawych, Warren 214  
Yalla, Sai Charaan 140  
Yamanishi, Candace 138  
Yanagida, Hiroshi 65  
Yang, Jisung 56  
Yang, Zihan 169  
Ye, Gaihua 66  
Yeary, Cody 71  
Yedulla, Nikhil 150  
Yelle, Heather 179  
Yen, Ting An 223  
Yetter, Katherine 206  
Yip, Catherine 227  
Yoder, Hannah 66  
Yohannes, Eileen 88  
Yordy, Clare 148  
York, Catherine 162  
Young, Christa 133  
Younger, Elijah 232  
Yount, Zachary 171  
Yu, Christine 219

### Z

Zakutansky, Paul 140  
Zamudio, Jennifer 171  
Zaravar, AliReza 140  
Zavala, Pedro 172  
Zawacki, Alissa 156  
Zayas, Minerva 138  
Zborovancik, Kelsey 146  
Zebrowski, Aileen 204  
Zelin, Michael 36  
Zellers, Julia 97  
Zelmore, Cynthia 50  
Zeng, George 142  
Zezza, Jordan 177  
Zhai, Chenyu 127  
Zhang, Aolin 197  
Zhang, Shirley 221  
Zhao, Fengbo 127  
Zhao, Vicky 163  
Zhou, Amy 185  
Zic, Nicole 129  
Ziegler, Katelyn 113  
Ziegman, Jacqueline 201  
Ziemer, Arianna 46  
Zima, Heather 77  
Zimmerman, James 87

Zinn, David 224  
Zinn, Heather 198  
Zinovyev, Anatoliy 79  
Zita, Erin 92  
Zitzelberger, Sabrina 132  
Zouai, Meroua 52  
Zuckerman, Suzanne 187  
Zuelke, Noelle 112  
Zuniga, Elsa 159  
Zwingelberg, Anna 131

## Index by Subject

### A

African American Studies 43, 53, 63, 72, 81, 90, 140  
Anthropology 81, 90, 99, 100, 108, 109, 117, 125, 126, 133, 140, 157, 166, 174, 184, 193, 211, 220, 229  
Archeology 44, 54, 63, 166, 174, 184, 193, 202, 211  
Architecture & Interior Design 73, 81, 149, 157, 166, 174, 184, 193, 202  
Art History 43, 53, 62, 63, 72, 81, 90, 99, 108, 117, 125, 132, 149, 157, 166, 174, 184, 193, 202, 211, 220, 229  
Astronomy 100, 140, 149, 157, 166, 174, 184, 193, 202, 211, 220, 229

### B

Behavioral Neuroscience 52, 61, 71, 80, 89, 140, 149, 157, 158, 166, 174, 175, 184, 193, 202, 203, 211, 212, 220, 229  
Biochemistry 44, 54, 63, 64, 117, 126, 133, 140, 149, 158, 166, 175, 184, 185, 193, 194, 203, 212, 220, 221, 229  
Biological Engineering 73, 149, 158, 166, 185, 194, 203, 212, 221  
Biology 44, 45, 54, 55, 64, 65, 73, 74, 82, 83, 91, 92, 100, 109, 117, 118, 126, 133, 134, 141, 149, 150, 158, 159, 167, 175, 176, 185, 186, 194, 195, 203, 204, 212, 213, 221, 222, 229, 230  
Biomedical Engineering 45, 46, 55, 65, 83, 84, 92, 101, 142, 150, 159, 167, 168, 176, 186, 195, 204, 213, 222, 230  
Business/Finance/Accounting 56, 74, 84, 93, 119, 142, 150, 151, 159, 168, 176, 186, 195, 204, 213, 222, 231

### C

Cell & Molecular Biology 44, 45, 54, 64, 73, 82, 91, 100, 109, 118, 142, 151, 159, 160, 168, 176, 177, 186, 195, 204, 214, 222, 231  
Cellular Neuroscience 64, 73, 82, 91, 142, 151, 160, 168, 177, 186, 195, 196, 205, 214, 223, 231  
Chemical Engineering 110, 118, 142, 160, 168, 177, 186, 196, 214, 223, 231  
Chemistry 45, 54, 55, 64, 73, 82, 91, 101, 109, 110, 118, 142, 143, 151, 152, 160, 168, 169, 177, 186, 187, 196, 205, 214, 215, 223, 231, 232  
Civil Engineering 46, 55, 143, 152, 161, 169, 178, 196, 205  
Clinical Psychology 52, 61, 71, 80, 89, 98, 107, 116, 124, 143, 152, 161, 169, 178, 187, 196, 205, 206, 215, 223, 224, 232  
Cognitive Neuroscience 89, 98, 107, 116, 124, 143, 152, 161, 169, 178, 187, 197, 206, 215, 224, 232  
Communication Sciences and Disorders 187, 197, 206, 215, 224, 232  
Communications 50, 51, 53, 54, 59, 60, 69, 78, 87, 96, 105, 114, 118, 122, 126, 130, 133, 137, 144, 152, 161, 170, 178, 188, 197, 206, 215, 224, 232

Computer Engineering 51, 188, 197, 206, 215, 224  
Computer Science 51, 60, 70, 78, 79, 88, 97, 106, 114, 115, 123, 130, 144, 152, 161, 170, 178, 188, 197, 206, 215, 216, 224, 232, 233  
Criminology 88, 233

### D

Dance Choreography and Performance 38, 39, 43  
Dance History and Theory 39, 81, 99

### E

Ecology & Organismal Biology 64, 73, 74, 83, 91, 101, 144, 153, 161, 162, 170, 178, 179, 188, 197, 206, 216, 224, 233  
Economics 47, 56, 66, 75, 84, 93, 102, 111, 119, 144, 153, 162, 170, 179, 188, 197, 216, 224  
Education 44, 48, 49, 57, 58, 67, 68, 76, 77, 85, 86, 94, 95, 103, 104, 112, 120, 128, 135, 144, 153, 162, 170, 179, 188, 197, 198, 206, 207, 216, 224, 225, 233  
Electrical Engineering 65, 74, 83, 84, 92, 102, 144, 153, 162, 170, 179, 188, 189, 198, 207, 216, 225, 233  
Engineering/Engineering Technology 46, 55, 110, 118, 119, 145, 153, 162, 171, 179, 189, 198, 207, 225, 233  
English 49, 50, 58, 59, 68, 77, 86, 87, 95, 96, 104, 105, 112, 113, 121, 128, 129, 135, 136, 145, 153, 171, 189, 198, 207, 216, 225, 234  
Entrepreneurship 46, 139, 216, 225  
Environmental Engineering 102, 162, 171, 179, 189, 198, 217, 225, 234  
Environmental Studies & Sciences 110, 118, 145, 153, 162, 171, 179, 189, 198, 207, 217, 225, 234  
Experimental Psychology 52, 61, 71, 80, 89, 98, 107, 116, 124, 131, 132, 138, 139, 145, 153, 154, 162, 163, 171, 179, 180, 189, 198, 207, 208, 217, 225, 226, 234

### F

FAN - Faculty Only 36, 37

### G

Geography & Earth Sciences 52, 61, 62, 71, 80, 89, 98, 99, 107, 108, 116, 124, 132, 139, 145, 146, 154, 163, 171, 172, 180, 190, 199, 208, 217, 226, 234  
Graphic Design 81, 90, 99, 172, 180

### H

Health Sciences 45, 55, 65, 74, 83, 92, 101, 110, 118, 119, 146, 154, 163, 172, 180, 190, 199, 208, 218, 226, 235  
History 50, 51, 59, 60, 69, 70, 72, 78, 79, 87, 96, 105, 113, 114, 122, 126, 127, 129, 130, 136, 137, 146, 154, 163, 172, 181, 190, 199, 208, 218, 226, 235  
Hospitality and Resort Management 47

## Index by Subject

### I

Industrial/Systems Engineering 127, 146, 154  
Information Technology 106, 137  
Interdisciplinary Studies 97, 105, 106, 114, 181  
International Studies 48, 57, 67, 76, 85, 94, 103, 112, 120, 123, 127, 130, 131, 134, 138, 146, 164, 190, 199, 208, 218, 235

### J

Journalism 86, 113, 121, 235

### K

Kinesiology & Exercise Science 68, 77, 78, 87, 96, 105, 146, 155, 164, 172, 181, 190, 199, 209, 218, 226, 235

### L

Law & Legal Studies 70, 79, 89, 98, 107, 115, 123, 181  
Linguistics 48, 58, 146, 155, 172, 190, 199, 235  
Literature 48, 49, 58, 67, 68, 76, 86, 94, 103, 104, 112, 120, 128, 135, 209, 218, 226, 235

### M

Management 46, 146, 181, 191, 200, 209, 218, 226, 235  
Marketing 56, 66, 74, 75, 84, 93, 102, 111, 155, 164, 172, 181, 191, 200, 209  
Mathematics 45, 55, 92, 101, 110, 118, 126, 127, 134, 146, 155, 164, 181, 191, 200, 209, 218, 227, 235  
Mechanical Engineering 46, 55, 56, 65, 74, 83, 92, 102, 111, 119, 147, 155, 164, 172, 181, 191, 200, 209, 218, 219, 227, 235, 236  
Microbiology & Immunology 56, 66, 75, 84, 93, 102, 111, 147, 155, 164, 173, 181, 182, 191, 200, 209, 219, 227, 236  
Music 38, 39, 43, 53, 62, 63, 72, 90, 99, 108, 125, 132, 133, 147, 155, 164, 173, 182, 191, 210, 236  
Music Performance 38, 39, 52

### N

Nursing 47, 56, 57, 66, 75, 84, 93, 147, 155, 156, 164, 173, 182, 191, 200, 210, 219, 227, 236  
Nutrition 105, 108, 113, 147, 156, 164, 173, 182, 191, 201, 210, 227, 236

### P

Philosophy & Ethics 51, 58, 59, 60, 68, 70, 77, 87, 95, 104, 105, 113, 121, 129, 136, 147, 165, 173, 182, 201  
Physical/Occupational Therapy/Speech Language Pathology 50, 59, 201, 210, 219, 227, 236  
Physics 47, 57, 66, 75, 85, 93, 102, 103, 111, 119, 120, 147, 156, 165, 173, 182, 191, 192, 201, 210, 219, 227, 228, 236, 237

Physiology 59, 148, 156, 165, 182, 192, 201, 210, 219, 228, 237

Poetry & Creative Writing 49, 58, 68, 77, 86, 228, 237  
Political Science 51, 52, 60, 61, 70, 79, 89, 94, 97, 98, 106, 107, 115, 123, 126, 131, 138, 148, 156, 165, 173, 183, 192, 201, 219, 228, 237

Public Health 47, 48, 57, 63, 67, 75, 85, 94, 103, 111, 120, 148, 156, 165, 174, 183, 192, 201, 210, 219, 220, 228, 237

### R

Recreation and Leisure Studies 136, 228  
Religious Studies 51, 60, 69, 78, 79, 88, 97, 106, 114, 115, 122, 123, 131, 138, 183, 192

### S

Social Work 97, 106, 114, 148, 157, 165, 174, 183, 192, 201, 210, 220, 237  
Sociology 51, 60, 70, 79, 80, 88, 97, 106, 114, 115, 122, 123, 130, 131, 137, 148, 157, 165, 174, 183, 192, 201, 202, 211, 220, 228, 237  
Sport Management 121, 122, 129, 211

### T

Theatre/Drama 39, 43, 53, 63  
Theatre/Drama Performance 39, 108

### V

Visual Arts 40, 41, 42, 81

### W

Women, Gender, and Sexuality Studies 69, 78, 88, 96, 105, 114, 122, 130, 137, 138, 148, 157, 165, 174, 183, 192, 202, 237  
World Languages 129, 183, 202

## Notes

## **Notes**

## Notes

## Notes

## Notes



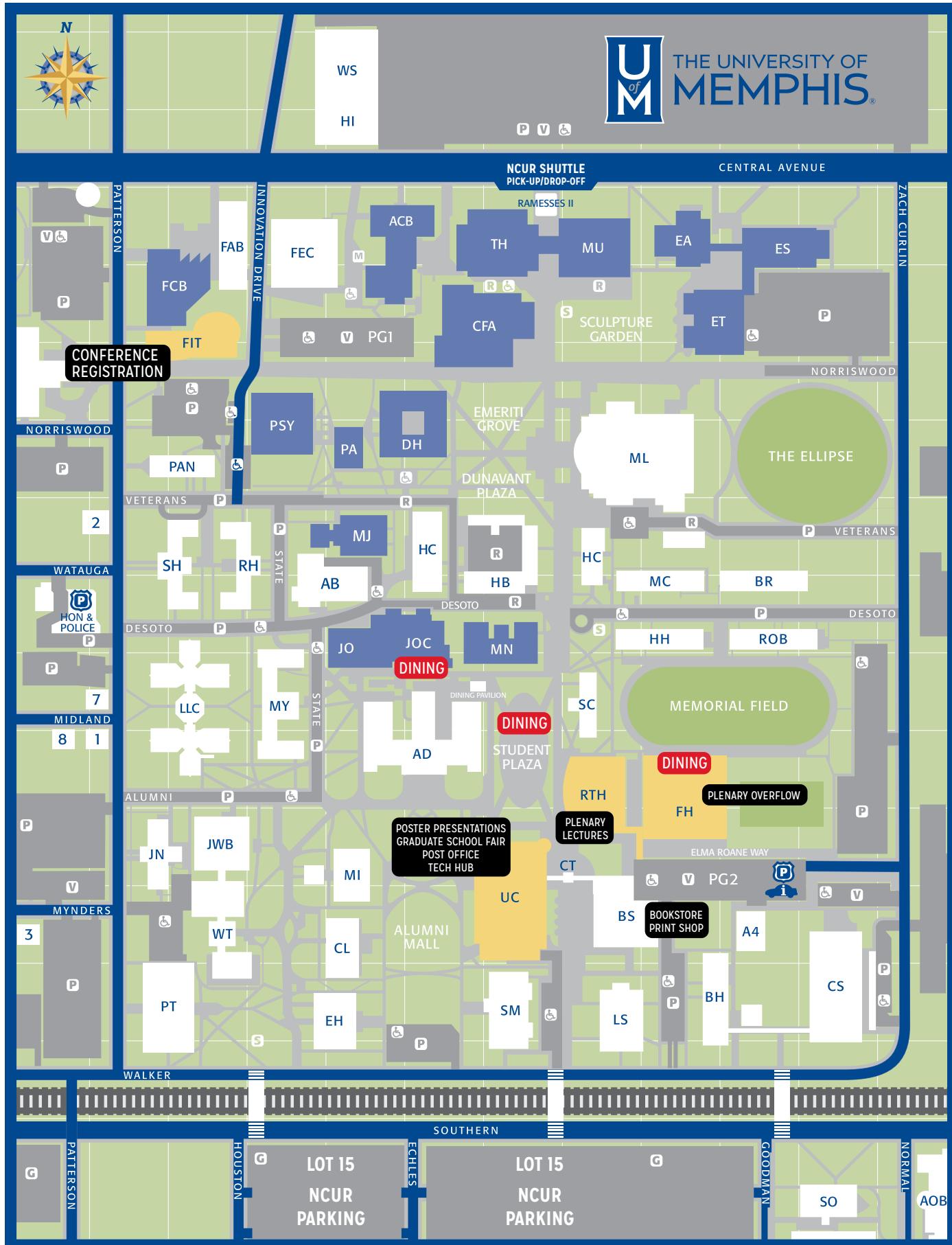
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