



# RESEARCH DAY

## Friday, November 4, 2022 – Marine Education Center

<p>9:15 am</p> <p><b>Opening Remarks</b></p> <p><b>Research Highlights</b></p> <p>9:30 am</p> <p><b>Session 1</b></p> <p>“Building responsible and sustainable tourism for Mississippi’s Blue Economy: The effects of community attitudes and place attachment.” <u>Dr. Bradley Winton</u>, Assistant Professor <i>School of Leadership</i></p> <p>“Community-Academic Research to Tackle Cardiometabolic Health Disparities.” <u>Dr. Jennifer Lemacks</u>, Associate Professor <i>School of Health Professions</i></p> <p>“The Push to 120: Reconciling Credit Hours in Undergraduate Music Education Programs” <u>Dr. Ashley Allen</u>, Assistant Professor <i>School of Music</i></p> <p><b>Session 2</b></p> <p>“Using coupled modeling to evaluate effects of nutrient and hypoxia reductions on living marine resources.” <u>Dr. Kim de Mutsert</u>, Assistant Professor <i>School of Ocean Science &amp; Engineering</i></p> <p>“A Bite to Remember. Heterogeneity among Vectors and Hosts in a Tropical Rain Forest.” <u>Dr. Donald Yee</u>, Professor <i>School of Biological, Environmental, and Earth Sciences</i></p> <p>“Promoting Health Equity in Mississippi” <u>Dr. Tanya Funchess</u>, Assistant Professor <i>USM Public Health Program</i></p> <p><b>Session 3</b></p> <p>“Balancing Risk and Reward: Behavioral Tradeoffs associated with Thermal Stress and Reproductive effort in Fiddler Crabs.” <u>Dr. Zachary Darnell</u>, Associate Professor <i>School of Ocean Science &amp; Engineering</i></p> <p>“Security and Privacy Schemes for Emerging Networks” <u>Dr. Ahmed Sherif</u>, Assistant Professor <i>School of Computing Sciences and Computer Engineering</i></p> <p>“Designs for Better RNAi” <u>Dr. Alex Flynt</u>, Associate Professor <i>School of Biological, Environmental, and Earth Sciences</i></p> <p><b>Session 4</b></p> <p>Informal Science Demos, Shark Dissection, Gulf Coast Animals, Surging Sturgeon Board Game</p>	<p>Dr. Kelly Lucas</p> <p>Dr. Shannon Campbell, Moderator Senior Associate Vice President for Coastal Operations</p> <p>Dr. Chris Winstead, Moderator Dean College of Arts &amp; Sciences</p> <p>Dr. Melissa Thompson, Moderator Associate Dean College of Education &amp; Human Sciences</p> <p>Dr. Jessie Kastler, Director Marine Education Center</p>	<p>Walkway</p> <p>Shark A172</p> <p>Whale B181</p> <p>Fish A171</p> <p>Turtle B182</p>
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# RESEARCH DAY

10:30 am **Break**

10:45 am **Session 5**

“It’s Just Who I Am! Political Identity Centrality and “Cancel Culture” Proclivity”

Dr. Katherine Howie, Assistant Professor  
*School of Marketing*

“LGBTQ+ Homeless Young Adults and Sex Trafficking Vulnerability”

Dr. Kimberly Hogan, Assistant Professor  
*School of Social Work*

“Verbal Attacks on ISIS Increased Violence Against Civilians”

Dr. Iliyan Iliev, Associate Professor  
*School of Social Science & Global Studies*

Dr. Bret Becton, Moderator  
Dean College of Business and  
Economic Development

Shark  
A172

10:45 am **Session 6**

“Towards Collaborative Oceanographic Data Sampling from Autonomous Surface and Underwater Vehicles”

Dr. Gero Nootz, Assistant Professor  
*School of Ocean Science & Engineering*

“Plastic Innovations for the Circular Economy”

Dr. Zhe Qiang, Assistant Professor  
*School of Polymer Science & Engineering*

“Overview of a Five-Year Assessment of Red Snapper Life History in Mississippi Nearshore Waters”

Jeremy Higgs, Assistant Director  
*Center for Fisheries Research & Development*

Dr. Gordon Cannon, Moderator  
Provost

Whale  
B181

10:45 am **Session 7**

“‘I Question America’: Black Mississippi Women’s Political Leadership that Changed the Nation”

Dr. Rebecca Tuuri, Associate Professor  
*School of Humanities*

“It Can Be Done”: Narratives of Black Doctoral Students Transitioning to Faculty”

Dr. Jason Wallace, Assistant Professor  
*School of Education*

“Emotion Regulation and its Influence on Health”

Dr. Megan Renna, Assistant Professor  
*School of Psychology*

Dr. Jennifer Lemacks, Moderator  
Associate Dean for Research  
College of Nursing & Health  
Professions

Fish  
A171

**Session 8**

Informal Science Demos, Shark Dissection, Gulf Coast Animals,  
Surging Sturgeon Board Game

Dr. Jessie Kastler, Director  
Marine Education Center

Turtle  
B182



# RESEARCH DAY

11:45 am **Lunch**

MEC Conference Center

“Researcher’s Toolkit”

Dr. Lillian Hill

*2022 Lifetime Achievement Innovation Award Winner*

Professor emerita, School of Education

“In search of the world's largest fish: whale sharks in the Gulf of Mexico”

Jill Hendon

Director

*Center for Fisheries Research & Development*

## 1:00 pm Research Showcase

### Poster #

101	“Platform Agnostic Magnetometer for Sensing in Marine Environments”	Megan Arnold Ocean Enterprise Research Technician <i>Roger F. Wicker Center for Ocean Enterprise</i>
102	“Marine Education and Stewardship: A Classroom Course in Community Resilience.”	Dr. Laura Blackmon Associate Director <i>Marine Education Center</i>
103	“A relationship between loneliness and physical and mental, and disease outcome considering time effect: CARDIA study”	Dr. Hwanseok Choi Associate Professor <i>Health Professions</i>
104	“Larval Production of the American Oyster <i>Crassostrea virginica</i> in a Recirculating, Artificial Seawater Hatchery”	Bradley DeLeon Aquaculture Biologist <i>Thad Cochran Marine Aquaculture Center</i>
105	“Think Small, Dream Big: #VanLife, Minimalism, and Neoliberal Fantasy”	Dr. Allison Formanack Assistant Professor <i>Social Science and Global Studies</i>
106	“An AR-QR Code Approach to Improve Access of Crews to Design and Construction Information on Construction Sites”	Dr. Mohsen Foroughi Sabzevar Assistant Professor <i>Construction and Design</i>
107	“Mississippi's Partnership in NOAA's Southeast Area Monitoring and Assessment Program (SEAMAP)”	Angie Hoover Research Associate <i>Center for Fisheries Research &amp; Development</i>
108	“Risk Assessment of Wind-borne Debris in Construction Sites through AI and Reality Capturing”	Dr. Salar Kamari Assistant Professor <i>Construction and Design</i>
109	“Automating Wave Height Forecasts with Uncertainty Quantification and Extreme Event Prediction using Deep Ensemble Learning.”	Dr. Soumyashree Kar Data Scientist III <i>Roger F. Wicker Center for Ocean Enterprise</i>
110	“Hospital Value-Based Payment Programs and Disparity in the United States”	Dr. Hyunmin Kim Assistant Professor <i>Health Professions</i>



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| 111     | “Biological, Ecosystem, and Fishery Dynamics Research in the Northern Gulf of Mexico”  | Dr. Robert Leaf<br>Associate Professor<br><i>Roger F. Wicker Center for Ocean Enterprise</i>                |
| 112     | “Microbial Communities of Sargassum Habitat and Associated Microplastics Influence the Gut Microbial Community of Juvenile Gray Triggerfish” | Olivia Lestrade<br>Research Associate<br><i>Gulf Coast Research Lab</i>                                     |
| 113     | “Evaluating The Persuasiveness Of Mobile Health: The Intersection Of Persuasive System Design And Data Science”                              | Dr. Aleise McGowan<br>Visiting Assistant Professor<br><i>Computing Sciences &amp; Computing Engineering</i> |
| 114     | “The Stories They Tell Us About Ourselves: History, Place, and Memory at Japanese National Museums and Monuments”                            | Miranda Noland<br>Graduate Assistant<br><i>Social Science and Global Studies</i>                            |
| 115     | “Near Real-Time RF Data Analysis Pipeline for Aiding Marine Domain Awareness and Surveillance”   | William Rippy<br>Testing and Evaluation Manager<br><i>Roger F. Wicker Center for Ocean Enterprise</i>       |
| 116     | “CubeNET Automated Data Reporting”   | Christian Schmachtenberger<br>Data Scientist<br><i>Roger F. Wicker Center for Ocean Enterprise</i>          |
| 117     | “Dance is Intimidating”: Helping PE preservice teachers engage despite discomfort using an Activist Approach”                                | Dr. Jackie Beth Shilcutt<br>Visiting Assistant Teaching Professor<br><i>Performing and Visual Arts</i>      |
| 118     | “CUBEnet's Enhancements and Uncrewed Maritime Vehicles(UMVs) Autonomy Simulations Using R/V Ken Barbor”                                      | Dr. Vishwamithra 11<br>Data Scientist<br><i>Roger F. Wicker Center for Ocean Enterprise</i>                 |
| 2:30 pm | <b>Research Showcase Awards</b>  | Dr. Kelly Lucas   |