Undergraduate Research Competition

April 11-12, 2017

The Undergraduate Research Competition is a spring tradition at Coastal Carolina University. This year, students and faculty mentors from 21 different majors and all university colleges have worked to produce 111 presentations, including 70 oral presentations and 41 poster presentations. These are the results of months, and in some cases, years of effort on undergraduate research projects, and demonstrate the strength of experiential learning at CCU. Congratulations, presenters!

Program Overview

Tuesday, April 11, 2017
Noon – 3:00 PM  Oral Presentations, Brittain Hall (1st floor: rooms 101, 112, and 114)
3:00 - 5:00 PM  Poster Session I, Lib Jackson Student Union Atrium
5:30 – 7:30 PM  Poster Session II, Lib Jackson Student Union Atrium

Wednesday, April 12, 2017
2:00 – 7:30 PM  Oral Presentations, Brittain Hall (1st floor: rooms 101, 112, and 114)

Concurrent Event
Senior Exhibition (portfolios from graduating Graphic Design and Art Studio majors)

• **Portfolio 1: April 10-April 21, 2017**, Rebecca Randall Bryan Art Gallery
  Reception: Thursday, April 20, 4:30-6:30pm

• **Portfolio 2: April 26- May 5, 2017**, Rebecca Randall Bryan Art Gallery
  Reception: Thursday, April 20, 4:30-6:30pm
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| 12:00 PM | Kerry Dittmeier, Emma Kroger, and Nancy Phillips  
Generational Perceptions of Homelessness  
*Faculty Mentor: Sharon Thompson* | Rachel White  
"Space" is the Buzzword: Culture, Economics, and the North American Tiny House Movement  
*Faculty Mentor: Deborah Breede* | Chelsea Shoben  
Investigating ROS-Mediated Neurodegeneration and Aging in *C. elegans*  
*Faculty Mentor: Daniel Williams* |
| 12:20 PM | Donald Fuller  
Meat-eating: A Review of the Literature  
*Faculty Mentor: Stephen Firsing* | Romane Delay  
Gender and Organization: Leadership in Collegiate Athletics  
*Faculty Mentor: Deborah Breede* | Katherine Hart  
Hurricane Landfall Probability in South Carolina by County  
*Faculty Mentor: Craig Gilman* |
| 12:40 PM | Celeste Benson  
Altered States: Addressing the Opioid Epidemic Through Public Policy  
*Faculty Mentor: Sherer Royce* | Alison Lane  
Casual Sources: The Dangers of Latent Ideologies  
*Faculty Mentor: Emma Howes* | Molly Aeschliman  
The Brain Behind the Whale: The Effects of Killer Whale Captivity  
*Faculty Mentor: Amanda Grefski* |
| 1:00 PM  | Quran Randall  
Passion and Hunger Can Give The Youth a Chance  
*Faculty Mentor: Melissa Clark* | Charlie Whittington  
The Emergence of Leaders: State Supreme Court Justices  
*Faculty Mentor: Mikel Norris* | Jesse Clark  
Atlantic Tropical Cyclone Intensity off the Carolinas  
*Faculty Mentor: Craig Gilman* |
| 1:20 PM  | **ROOM CHANGE: BRTH 109**  
Christopher Trinemeyer  
Test Performance, Satisfaction, and Motivation  
*Faculty Mentor: Terry Pettijohn* | Sarah Causey  
Judicial Emergencies Pressure Reform on the Confirmation Process in District Courts  
*Faculty Mentor: Mikel Norris* | Matthew Kurpiel  
Spatial and Temporal Variability in Radium-226 Distributions in Gulf of Mexico Porewaters  
*Faculty Mentor: Richard Peterson* |
| 1:40 PM  | **ROOM CHANGE: BRTH 109**  
Kaitlyn Powalie  
The Case for Miracles: Mindsets and Beliefs  
*Faculty Mentor: Miranda Brenneman* | Jolito Rivera  
Mandating of Two Police Officer Per Patrol Unit and The Impact of Diversity  
*Faculty Mentor: Holley Tankersley* | Katina Foley  
Gulf Stream Ring Climatology  
*Faculty Mentor: Craig Gilman* |
| 2:00 PM  | **ROOM CHANGE: BRTH 109**  
Andrew Bremer  
Social Media, Technology and Self-Disclosure: A Relational Study  
*Faculty Mentor: Terry Pettijohn* | Carlie Todd  
The "Subtle Change in the Wind": The Lives and Influence of GI Jane and Rosie the Riveter  
*Faculty Mentor: Maggi Morehouse* | Adam Hitt  
Chlorophyll a in Intertidal Sands of South Carolina  
*Faculty Mentor: Angelos Hannides* |
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<td><strong>ROOM CHANGE: BRTH 109</strong></td>
<td>Alan Lam</td>
<td>David Klett</td>
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<td>Avery Petschke</td>
<td>Change Through Time</td>
<td>Cardiac Morphology of Deep Sea Sharks</td>
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<td>Examining How Dark Personalities,</td>
<td>Faculty Mentor: Dennis Earl</td>
<td>Faculty Mentor: Daniel Abel</td>
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<td>Academic Major, and Gender Affect Dishonest Behavior in</td>
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<td>Faculty Mentor: Terry Pettijohn</td>
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<td><strong>ROOM CHANGE: BRTH 109</strong></td>
<td>Nelda Glaze</td>
<td>Bridges Q&amp;A Session</td>
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<td>Rachel VanRensselaer</td>
<td>Student Choice in Homework:</td>
<td>Keaghan Turner and Clayton Whitesides</td>
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<td>Gender Stereotypes Within Advertising</td>
<td>Findings from a Montessori Charter School</td>
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<td>Faculty Mentor: Amy Tully</td>
<td>Faculty Mentor: Catherine Scott</td>
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**WEDNESDAY, APRIL 12, 2017**

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<td>Bethany Bebik</td>
<td>Yaicha Ocampo</td>
<td>Kasvonna Butler</td>
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<td>Creating a Safe Space for Safe Sex: Condom and Dental</td>
<td>Dishonored Rights in the Military</td>
<td>Attitudes Towards Police</td>
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<td>Dam Accessibility and Availability at Coastal Carolina</td>
<td>Faculty Mentors: Amy Tully and</td>
<td>Brutality</td>
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<td>David Holiday</td>
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<td>Ashley Lynch</td>
<td>Julia Emory</td>
<td>Alexis DiMarzo</td>
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<td>Horry Hope Initiative: Quantifying Perceptions of</td>
<td>Cultural Calamity: Applying The Tale of the Heike to</td>
<td>The Individual, Party</td>
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<td>Opioid Addiction</td>
<td>Contemporary Issues</td>
<td>Polarization, and its Policy Effects</td>
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<td>Faculty Mentor: Ronald Green</td>
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<td>Faculty Mentors: Kaitlyn Sidersky and Amy Tully</td>
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<td>Destiny Lewis</td>
<td>Cody Fongmie</td>
<td>Ariel Lasher</td>
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<td>Health Behavior and Outcomes of First-generation College</td>
<td>Third Party Presidential Candidates and the Factors that</td>
<td>Right to Life, Right to Water</td>
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<td>Students</td>
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<td>Faculty Mentor: Lisa Winters</td>
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<td>3:00 PM</td>
<td>Juden Powell</td>
<td>Hannah Hamelman</td>
<td>Megan Foster and Carlianne Hanks</td>
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<td>The MIND Diet and Cognitive Ability.</td>
<td>Military Prostitutes: The Korean War’s Prize for</td>
<td>Newsroom Culture in a Time of Economic Change</td>
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<td>Morehouse and Brandon Palmer</td>
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<td>3:20 PM</td>
<td>Carlianne Hanks</td>
<td>Maria Karahalios, Gabriella Dudley, Kelly Shelton, Kate</td>
<td>Nicholas Legut</td>
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<td>The Newsroom as a Family</td>
<td>Curran, Cat Sweeney, and Cassandra Ratliff</td>
<td>How Much Seawater is Filtered through Long Bay, SC</td>
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<td>Faculty Mentor: Andrea Bergstrom and Wendy Weinhold</td>
<td>Coastal Carolina Solar</td>
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<td>Ambassadors: A Case Study of Solar Policy in the Grand</td>
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<td>Adrianna Seals</td>
<td>Ryan Case</td>
<td>Madison Dahle and Emily Klouda</td>
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<td>&quot;Assault is not an Accident&quot;: A Case Study into the Media Portrayals of the Brock Turner Rape Case Faculty Mentor: Deborah Breede</td>
<td>The Effects of Presidential Rhetoric on the Public and Policy Execution Faculty Mentor: Michael Julius Amy Tully</td>
<td>Evaluation of Phosphate Method Detection Limits for Coastal Carolina University's Water Quality Monitoring Program Faculty Mentor: Susan Libes</td>
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<td>Tanya Jones</td>
<td>justin LeSuer</td>
<td>Jacqueline McMillen</td>
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<td>Oak Hall Plantation: Slavery to Citizenship Faculty Mentor: Maggi Morehouse</td>
<td>Constitution Interpretation in Early American Politics Faculty Mentor: John Navin</td>
<td>Human Interactions and the Effects on Mother-Calf Relations in Dolphin Societies Faculty Mentor: Jeremy Killian</td>
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<td>Jeanie Serrette</td>
<td>Amelia Dobbs</td>
<td>Michael Muir</td>
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<td>How Social Media is Changing Language and Is it Bad? Faculty Mentor: Amy Tully</td>
<td>Jack Cole and Andy Blankenbuehler: The Influence of Ethnic Dance on Choreographic Style Faculty Mentor: Adam Pelty</td>
<td>Remote Sensing the Effects of Hurricane Matthew Faculty Mentor: Louis Keiner</td>
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<td>Madeline Shaw</td>
<td>Dara Potts</td>
<td>Stephen Penton</td>
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<td>Hashtag Feminism: Activism in Digital Media Faculty Mentor: Ina Seethaler</td>
<td>Clown Therapy: Healing One Laugh at a Time Faculty Mentors: Amy Tully and Ben Sota</td>
<td>Rough Ocean Surface Effects on Atmospheric Refractivity Inversions Faculty Mentor: Erin Hackett</td>
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<td>Olivia Campbell</td>
<td>Jonathan Lawley</td>
<td>Alyssa Risner</td>
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<td>Maladaptive Personality Traits Relationship to Heredity Faculty Mentor: Terry Pettijohn</td>
<td>An Experimental Study on the Near Wake Flow Features of Boobook Owal during Flapping Flight Faculty Mentor: Roi Gurka</td>
<td>A New Generation of Maze for a Drosophila Olfactory Memory Assay Faculty Mentor: Varavut Limpasuvan Fang Ju Lin</td>
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<td>Tyler Marsh</td>
<td>Austin Finley</td>
<td>Lisa Pieterse</td>
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<td>The Relationship Between Narcissism and Spirituality as a Scientific Construct Faculty Mentor: Joan Piroch</td>
<td>&quot;I Wanna Go Fast!“ Designing an Engine Control Unit for Motorsport Faculty Mentor: William Jones</td>
<td>Isolating <em>Staphylococcus Aureus</em> and <em>E. Coli</em> Bacteriophages from CUC Student Population as a Means for Alternative MRSA Treatment Faculty Mentor: Paul Richardson</td>
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<td>John Rossano</td>
<td>Marquay Byrd</td>
<td>Ashley Pribble</td>
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<td>Loneliness and Videogame Playing Faculty Mentor: Joan Piroch</td>
<td>Mechanical and Electrical Components in Aerospace Systems Faculty Mentor: Louis Rubbo</td>
<td>Characterizing Galactosemia in <em>C. elegans</em> Faculty Mentor: Daniel Williams</td>
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<td>Skylar Byrd</td>
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<td>How Coffee and Cupcake Odors Affect Attentional Performance in College Students Faculty Mentor: Dr. Terry Pettijohn</td>
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<td><strong>Daniele Aguilera</strong>&lt;br&gt;College Students Attitudes Toward Deservingness of Government Assistance&lt;br&gt;Faculty Mentor: Joan Piroch</td>
<td><strong>Aaron LaValle</strong>&lt;br&gt;Exploring Multi-Stage Rockets and Escaping from Earth&lt;br&gt;Faculty Mentor: Louis Rubbo</td>
<td><strong>Rebecca Rodger</strong>&lt;br&gt;Effects of Hypoxia and Temperature on Growth and Differentiation of <em>Eublepharis macularius</em> and <em>Rhacodactylus ciliatus</em> Embryos.&lt;br&gt;Faculty Mentor: Scott Parker</td>
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<td>6:40 PM</td>
<td><strong>Kaitlyn Benson</strong>&lt;br&gt;Gender, Perceived Stress, and Coping Strategy as Predictors of Emotional Eating in College Students&lt;br&gt;Faculty Mentor: Linda Palm</td>
<td><strong>Steven Manz</strong>&lt;br&gt;Building a Competitive Robot from the Ground Up.&lt;br&gt;Faculty Mentor: Louis Rubbo</td>
<td><strong>Katherine Hunt</strong>&lt;br&gt;Optimal Context for Play Based Pedagogy in Science&lt;br&gt;Faculty Mentors: Brandi Neal, Steven McCartney, and Louis Rubbo</td>
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<td>7:00 PM</td>
<td><strong>Kyla Powell</strong>&lt;br&gt;Social Media’s Impact on Public Relations: How Professionals are Adapting and Making Use of Social Media&lt;br&gt;Faculty Mentor: Wes Fondren</td>
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2017 Undergraduate Research Competition
POSTER PRESENTATIONS
Lib Jackson Student Union – Atrium

Session I: Tuesday, April 11, 2017, 3:00pm-5:00pm
Session II: Tuesday, April 11, 2017, 5:30pm-7:30pm

POSTER SESSION I
Tuesday, April 11, 2017, 3:00pm-5:00pm

SEAN CARTER, Exercise Sport Science (#25)
The Effects of Repeated Bouts of Foam Rolling on Hip Range of Motion and Functional Assessment Compared across Different Tissues
Faculty Research Mentor: MacGregor Hall, Kinesiology

ELIZABETH CHRISTMAS and ALEXIS SETTA, Biochemistry (#32)
Comparison of Bacteriophage Found at Residential and Commercial Environments
Faculty Research Mentor: Paul Richardson, Chemistry

NICHOLAS CONWAY, Marine Science (#2)
Tracing Extreme Floods of the Waccamaw River Using Oxbow Lake Deposits
Faculty Research Mentor: Zhixiong Shen, Marine Science

GARRETT ELMO, Marine Science (#4)
Selective Occupancy of Nesting Sites by Co-occurring Oyster Reef Fishes
Faculty Research Mentor: Juli Harding, Marine Science

CAITLYN GOODWIN, Exercise Sport Science (#27)
Foam Rolling Duration for Greatest Improvements in Range of Motion
Faculty Research Mentor: Jason Smith, Kinesiology

IVY HANCOCK, Marine Science (#7)
Bridge The Gap
Faculty Research Mentor: Suzan Libes, Marine Science/Coastal Marine Systems Science

TAYLOR HINDS, Biochemistry & Psychology (#34)
Characterization and Cloning of myr1, a vab-1 allele that Causes Developmental Defects in C. elegans.
Faculty Research Mentor: Daniel Williams, Biology

JAMES JOHNSON and CARRIGEN MANNS, Marine Science (#19)
Assessing the Impacts of Hurricane Matthew on Ghost Crab Populations and An Examination of Morphometrics
Faculty Research Mentor: Eric Rosch, Marine Science

BAILEY KIRKLAND, Psychology (#11)
Aromatherapy Effects on Anxiety Levels
Faculty Research Mentor: Andrew Terranova, Psychology
MADELEINE LEE, Marine Science (# 9)
The Movement of Nitrogen through a Stormwater Retention Pond System
Faculty Research Mentor: Angelos Hannides, Marine Science

LAUREN LETTIERE, Exercise Sport Science (# 29)
The Effects of Externally Paced, Velocity Specific Resistance Training on Power and Performance
Faculty Research Mentor: MacGregor Hall, Kinesiology

CIERRA LUCAS, Biology (# 36)
Digestive Efficiency and Energetic Content in the Prey of Diamondback Terrapins
Faculty Research Mentor: Scott Parker, Biology

EMILY OTSTOTT, Marine Science (# 20)
Underwater Video Observations of a Marine Fish Assemblage Associated with Hard-bottom Habitat of North Carolina
Faculty Research Mentor: Erin Burge, Marine Science

CAITLIN REVEAL, Exercise Sport Science (# 31)
The Effects of Vaccinations on Public Health
Faculty Research Mentors: Ashlee Case & Jeremy Killian, Kinesiology/Honors Program

LUCILLE ROMANIK, OLIVIA CAMPBELL, and AVERY PETSCHKE, Psychology & Art Studio (# 13)
Personality and Traditional Gender Role Beliefs among College Student Voters in the 2016 U.S. Presidential Election
Faculty Research Mentor: Terry Pettijohn, Psychology

RACHEL TRIMBLE, Marine Science (# 22)
Coral Resistance to Increasing Temperatures in Different Regions
Faculty Research Mentor: Louis Keiner, Physics

ZACKERY WHITE, Biology (# 38)
Does Clicker Training Work
Faculty Research Mentor: Chris Hill, Biology

ASHLEY WHITEHEAD, Psychology (# 15)
Effects of Cell Phone Interference on Task Completion and Task-related Frustration
Faculty Research Mentor: Terry Pettijohn, Psychology

HANNAH WOLF, Communication (# 17)
Violence in the Media: Scaring Us One Program at a Time
Faculty Research Mentors: Amy Tully & Wes Fondren, College of Humanities and Fine Arts/Communication, Media, and Culture
POSTER SESSION II
Tuesday, April 11, 2017, 5:30pm-7:30pm

Mary Akers, Marine Science (#24)
Phytoplankton communities and nutrient dynamics in Winyah Bay, S.C.
Faculty Research Mentor: George Boneillo, Marine Science

TYLER AULFFO, Marine Science (# 1)
Diatoms and the Maintenance of Kleptoplasty within Estuarine Foraminifera
Faculty Research Mentor: Megan Cevasco, Biology

HALLIE BONDS, Communication (# 16)
Woven
Faculty Research Mentor: Deborah Breede, Communication, Media, and Culture

HALEY CODERRE, Marine Science (# 3)
Physical Conditions Associated with Hypoxia in Long Bay, SC
Faculty Research Mentors: Diane Fribance, Erin Hackett, & Roi Gurka, Marine Science/Coastal Marine Systems Science

ERIKA DESALVIO and BRIANNA TRAMUTOLO, Marine Science (# 5)
Estimating the Abundance of the Northern South Carolina Estuarine System of Bottlenose Dolphins (Tursiops Truncatus)
Faculty Research Mentors: Robert Young & Daniela Silva, Marine Science

SABRINA DORFMAN, Interdisciplinary Studies (# 33)
How Green Cemeteries Can Help Reverse The Effects Of Deforestation
Faculty Research Mentor: Brandi Neal, Communication, Media, and Culture

KYLEY DUNMEYER, Marine Science  (# 6)
Microplastics Distribution in the Coastal Waters of Myrtle Beach, SC.
Faculty Research Mentor: George Boneillo, Marine Science

SAVANA EVANS, Marine Science (# 8)
Testing Ghost Crab (Ocypode quadrata) Digging Behavior in Different Environments
Faculty Research Mentor: Eric Rosch, Marine Science

ANDREW FERNICOLA and COREY DIRKS, Exercise Sport Science (# 26)
The Effect of Repeated Foam Rolling of Passive Tissue vs. Active Tissue on Hip Motion
Faculty Research Mentor: MacGregor Hall, Kinesiology

CASEY FLECK, Computer Science (# 14)
Finding the Shortest Algorithm for Solving a Rubik's Cube
Faculty Research Mentor: Thomas Hoffman, Mathematics & Statistics

IVY HANCOCK, Marine Science (# 10)
Nutrient Limitation of Phytoplankton Communities in Long Bay, South Carolina.
Faculty Research Mentor: George Boneillo, Marine Science
BRION HARRISON, Marine Science & Biology (# 21)
Testing a Molecular Identification Assay for *glochidia* Parasitic on Fish from Lake Waccamaw, North Carolina
Faculty Research Mentor: Erin Burge, Marine Science

LEANDRA HURLBERT, Exercise Sport Science (# 28)
The Relationship of Body Composition to Countermovement Vertical Jump Characteristics Across Loaded Conditions
Faculty Research Mentor: Christopher MacDonald, Kinesiology

DILLON KING, Marine Science & Biochemistry (# 23)
Abundance and Distribution of Microplastic Particles in Winyah Bay, South Carolina
Faculty Research Mentor: George Boneillo, & Jane Guentze, Marine Science

KATELYNN LASCALA, Biology (# 35)
Analysis of beta-spectrin in *C. elegans*
Faculty Research Mentor: Daniel Williams, Biology

SAVANNAH SMITH, Communication (# 18)
The Secrete Of Adoption
Faculty Research Mentor: Deborah Breede, Communication, Media, and Culture

ALISON SOLES, Biology (# 37)
Ethics of Declawing Felines
Faculty Research Mentor: Jeremy Killian, Honors Program

EMILIE-KATHERINE TAVERNIER, Biology (# 39)
Analysis and Discovery of Singly Methylated Sugars in Wild Type and Transgenic Tobacco Cell Walls
Faculty Research Mentor: Eugene Nothnagel, Professor of Plant Physiology, University of California, Riverside.

EMILY TAYLOR, Public Health (# 12)
Stroke Rehabilitation Regulation, Accreditation, and the Results of Both
Faculty Research Mentor: Stephen Firsing, Public Health

RACHEL WAGNER, Mathematics (#40)
Modeling Emergency Room Arrivals Using the Non-Homogeneous Poisson Process
Faculty Research Mentor: Lindsey Bell, Mathematics and Statistics

COURTNEY WEEKS, Exercise Sport Science (# 30)
The Effects of Static and Dynamics Stretching on Flexibility and Vertical Jump Performance
Faculty Research Mentor: Jason Smith, Kinesiology