The Undergraduate Research Competition is a spring tradition at Coastal Carolina University. This year, students and faculty mentors from 28 different majors and all university colleges have worked to produce 116 presentations, including 63 oral presentations and 53 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 16, 2019**
- 12:30 – 2:30 PM  Poster Session I, Lib Jackson Student Union Atrium
- 3:00 – 7:30PM  Oral Presentations, Brittain Hall (1st floor: rooms 101, 112, and 114)

**Wednesday, April 17, 2019**
- 12:50 – 4:30 PM  Oral Presentations, Brittain Hall (1st floor: rooms 101, 112, and 114)
- 4:30 - 6:30 PM  Poster Session II, Lib Jackson Student Union Atrium

Concurrent Event

*Senior Exhibition* (portfolios from graduating Graphic Design and Art Studio majors)
- **Portfolio 1: April 8-April 19, 2019**, Rebecca Randall Bryan Art Gallery
  Reception: Wednesday, April 10, 4:30-6:30pm
- **Portfolio 2: April 29-May 10, 2019**, Rebecca Randall Bryan Art Gallery
  Reception: Thursday, May 9, 4:30-6:30pm

*Supreme Court of South Carolina in Session at CCU* – Wheelwright Auditorium
- April 17, 2019 10:00am-noon, Oral arguments
- April 18, 2019 9:30am-noon, Oral arguments
## 2019 Undergraduate Research Competition Schedule

**ORAL PRESENTATIONS**
Brittain Hall, First Floor

**TUESDAY, APRIL 16, 2019**

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<thead>
<tr>
<th>Time</th>
<th>BRITTAH HALL RM 101</th>
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<tbody>
<tr>
<td>3:00 PM</td>
<td>Savanna Ihrcke</td>
<td>Jeremy Evans and Hailey Wimmenauer</td>
<td>Fulbright Program Information Session</td>
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<td></td>
<td>Mindfulness and Test Anxiety in College Students</td>
<td>Breaking Suicide and Depression (SAD) Initiative: Examining the Correlation between Screen Time and Mental Health</td>
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<td></td>
<td><strong>Faculty Research Mentor:</strong> Melissa Paiva-Salisbury, Psychology</td>
<td><strong>Faculty Research Mentor:</strong> Sharon Thompson, Health Sciences</td>
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<td>3:20 PM</td>
<td>Rachel Trudon and Amber Rahman</td>
<td>Brandon Stone</td>
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<td>Examining Levels of Food Security among College Students and Food Bank Participants: The Hunger Reduction in Vulnerable Environments Project (THRIVE)</td>
<td>Prince Fellows 2018/2019 Research</td>
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<td><strong>Faculty Research Mentor:</strong> Sharon Thompson, Health Sciences</td>
<td><strong>Faculty Research Mentor:</strong> Jack Roper, History</td>
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<td>3:40 PM</td>
<td>Stacy Kersey</td>
<td>Tiffany Dantzler</td>
<td>Sean Butler</td>
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<td>Yoga, Working Memory, and Stress: Evaluating the Effects of a Singular Practice</td>
<td>The Future of Sino-South African Relations: Analysis of the Sustainability of a Partnership</td>
<td>The Peristyle Courtyard of elite Roman Houses</td>
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<td><strong>Faculty Research Mentor:</strong> Miranda Brenneman, Psychology</td>
<td><strong>Faculty Research Mentor:</strong> Joseph Fitsanakis, Politics</td>
<td><strong>Faculty Research Mentor:</strong> Aneilya Barnes, History</td>
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<td>4:00 PM</td>
<td>Virginia Novak</td>
<td>Brandon Adams</td>
<td>Jewish Emigration and Restrictions to Migration prior to the Final Solution</td>
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<td>Does Gender Impact Impulsive and Risky Sexual Behaviors?</td>
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<td><strong>Faculty Research Mentors:</strong> Philip Whalen and Christopher Gunn, History</td>
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<td><em>Faculty Research Mentor: Melissa Paiva-Salisbury, Psychology</em></td>
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<td>4:20 PM</td>
<td>Alyssa Molaro</td>
<td>Tyra Bjorlo</td>
<td>Morgan Condrey and Tiffany Strange</td>
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<td>Political Orientations: Changing Narcissistic Opinions with Use of Moral Framing</td>
<td>Women in Militant Islamist Groups</td>
<td>The Lebanese Civil War and The Pursuit of Peace</td>
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<td><em>Faculty Research Mentor: Melissa Paiva-Salisbury, Psychology</em></td>
<td><em>Faculty Research Mentor: Nora Onar, Politics</em></td>
<td><strong>Faculty Research Mentor:</strong> Christopher Gunn, History</td>
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<td>4:40 PM</td>
<td>Samuel Graham</td>
<td>Quentin Clark</td>
<td>Tiffany Strange and Morgan Condrey</td>
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<td>Godchildren, Soldiers Boys, and Casualties: Children in Early Modern Village Society and the Thirty Years’ War</td>
<td>Photography vs. Sexual Assault: The Healing Power of the Camera</td>
<td>Lebanon and the Taif Agreement</td>
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<td><em>Faculty Research Mentor: Shari Orisich and Brian Nance, History</em></td>
<td>*Faculty Research Mentors: Howie Elizabeth, Visual Arts and Aneilya Barnes, History</td>
<td><strong>Faculty Research Mentor:</strong> Christopher Gunn, History</td>
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<td>5:00 PM</td>
<td>Kallie Stephens</td>
<td>Ramsey Diven</td>
<td>Elizabeth Vermont</td>
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<td>The Impact of Narration on E-Learning Outcomes</td>
<td>The Portrayal of Self Through an Emotionally Charged Playlist</td>
<td>Impact of Nuremberg Laws on Jews</td>
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<td><em>Faculty Research Mentor: Marlena Ryba, Psychology</em></td>
<td>*Faculty Research Mentors: Charles Clary, Visual Arts and Aneilya Barnes, History</td>
<td><strong>Faculty Research Mentor:</strong> Christopher Gunn and Philip Whalen, History</td>
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<td>5:20 PM</td>
<td>Lauren Tyndall</td>
<td>Giovanna Leone</td>
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<td>Effects of Emotional Valence and Depth of Processing on Memory</td>
<td>Effects of Foam Rolling on Range of Motion and Vertical Jump Height</td>
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<td><em>Faculty Research Mentor: Matthew Murphy, Psychology</em></td>
<td>*Faculty Research Mentor: Jason Smith, Exercise and Sport Science</td>
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<td>5:40 PM</td>
<td>Victoria Riley-Lomedico&lt;br&gt;The Impact of Stress Ball Density on the Categorization of Sexual Orientation, Race, and the Level of Certainty in College Students&lt;br&gt;&lt;i&gt;Faculty Research Mentor: Terry Pettijohn, Psychology&lt;/i&gt;</td>
<td>Annie Boyd&lt;br&gt;Demersal Fish use of Printed Oyster Shells as Nesting Habitat in North Inlet SC&lt;br&gt;&lt;i&gt;Faculty Research Mentor: Juliana Harding, Marine Science&lt;/i&gt;</td>
<td>Kristina Knudtson&lt;br&gt;Life After the Wall: The East German’s Struggle to Establish Identity in United Germany&lt;br&gt;&lt;i&gt;Faculty Research Mentors: Amanda Brian, History and Gary Schmidt, Languages and Intercultural&lt;/i&gt;</td>
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<td>6:00 PM</td>
<td>Kenzie Nash&lt;br&gt;Time Off and Turnover Intention Rates&lt;br&gt;&lt;i&gt;Faculty Research Mentor: Marlena Ryba, Psychology&lt;/i&gt;</td>
<td>James Bennett&lt;br&gt;Prediction of Offshore Wind Speeds&lt;br&gt;&lt;i&gt;Faculty Research Mentor: Siming Guo, Physics and Engineering Science&lt;/i&gt;</td>
<td>James Lawler&lt;br&gt;King James, Buckingham, and Their Lasting Effect on Great Britain&lt;br&gt;&lt;i&gt;Faculty Research Mentors: Brian Nance and Aneilya Barnes, History&lt;/i&gt;</td>
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<td>6:20 PM</td>
<td>Maria Sparacino&lt;br&gt;The Influence of Wearing a fitbit on Eating Behaviors While Stressed&lt;br&gt;&lt;i&gt;Faculty Research Mentor: Terry Pettijohn, Psychology&lt;/i&gt;</td>
<td>Katrina Hughes&lt;br&gt;Exploring the Underwater Depths with an Autonomous Vehicle&lt;br&gt;&lt;i&gt;Faculty Research Mentor: Louis Rubbo, Physics and Engineering Science&lt;/i&gt;</td>
<td>Victoria Peck&lt;br&gt;Reacting to the Past: Engagement and Experiential Learning through Games&lt;br&gt;&lt;i&gt;Faculty Research Mentor: Katie Clary, History&lt;/i&gt;</td>
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<td>6:40 PM</td>
<td>Kassidee Hanshew&lt;br&gt;Time Perspective, Personality, and Music Preferences&lt;br&gt;&lt;i&gt;Faculty Research Mentor: Terry Pettijohn, Psychology&lt;/i&gt;</td>
<td>Tanner Saussaman&lt;br&gt;Assessing and Improving the Support for South Carolina FIRST LEGO League Coaches&lt;br&gt;&lt;i&gt;Faculty Research Mentor: Louis Rubbo, Physics and Engineering Science&lt;/i&gt;</td>
<td>Corryn Patterson&lt;br&gt;Inclusion of Age in Undergraduate Curricula: A Study of Literature Professors Pedagogies&lt;br&gt;&lt;i&gt;Faculty Research Mentor: Cynthia Port, English&lt;/i&gt;</td>
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<td>7:00 PM</td>
<td>Jarrod Worley&lt;br&gt;Justification of Effort Effect for Mental and Physical Tasks&lt;br&gt;&lt;i&gt;Faculty Research Mentor: Matthew Murphy, Psychology&lt;/i&gt;</td>
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<td><strong>12:50 PM</strong></td>
<td><strong>Fulbright Program Information Session</strong></td>
<td><strong>Alyssa Conner</strong>&lt;br&gt;Two Makes a Couple: Fictions on Intimacy&lt;br&gt;&lt;i&gt;Faculty Research Mentor: Jessica Richardson, English&lt;/i&gt;</td>
<td><strong>Alexa Jeacoma</strong>&lt;br&gt;Applying the Jeopard’s Format to a Strategic Case Analysis&lt;br&gt;&lt;i&gt;Faculty Research Mentor: Janice Black, Management Decision Sciences&lt;/i&gt;</td>
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<td><strong>1:10 PM</strong></td>
<td><strong>Nicholas Coleman</strong>&lt;br&gt;Association Behavior between Sand Tiger Sharks (&lt;i&gt;Carcharias taurus&lt;/i&gt;) and Round Scad (&lt;i&gt;Decapterus punctatus&lt;/i&gt;) May be Mutually Beneficial&lt;br&gt;&lt;i&gt;Faculty Research Mentor: Erin Burge, Marine Science&lt;/i&gt;</td>
<td><strong>Dara Potts and Amelia Dobbs</strong>&lt;br&gt;Popular Culture, Shakespeare, and Gender&lt;br&gt;&lt;i&gt;Faculty Research Mentors: Robin Russell and Gwendolyn Schwinkle, Theatre&lt;/i&gt;</td>
<td><strong>Macy Moffatt</strong>&lt;br&gt;Addiction, the Hardest Battle&lt;br&gt;&lt;i&gt;Faculty Research Mentors: Wendy Weinhold, Communication, Media, and Culture and Kyle Holody&lt;/i&gt;</td>
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<td><strong>1:30 PM</strong></td>
<td><strong>Bailey Harding</strong>&lt;br&gt;Paired Ghost Crab Burrow Morphology: An Analysis of Shape, Angle and Seasonal Variation&lt;br&gt;&lt;i&gt;Faculty Research Mentor: Eric Rosch, Marine Science&lt;/i&gt;</td>
<td><strong>Hannah Dahl</strong>&lt;br&gt;Perceptions &amp; Experiences of Racial Bias in College Theatre Programs&lt;br&gt;&lt;i&gt;Faculty Research Mentors: Gwendolyn Schwinkle, Theatre, and Aneilya Barnes, History&lt;/i&gt;</td>
<td><strong>Olivia Dimatteo</strong>&lt;br&gt;Museum Semiotics&lt;br&gt;&lt;i&gt;Faculty Research Mentor: Kyle Holody, Communication, Media, and Culture&lt;/i&gt;</td>
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<td><strong>1:50 PM</strong></td>
<td><strong>Taylor Hayes</strong>&lt;br&gt;Spatial Distribution and Behavioral Patterns in American Alligators (&lt;i&gt;Alligator mississippiensis&lt;/i&gt;) at Huntington Beach State Park, SC&lt;br&gt;&lt;i&gt;Faculty Research Mentor: Eric Rosch, Marine Science&lt;/i&gt;</td>
<td><strong>Billie Rogers</strong>&lt;br&gt;Native American People and their Adaptation to Late Holocene Sea Level Rise&lt;br&gt;&lt;i&gt;Faculty Research Mentor: Carolyn Dillian, Anthropology &amp; Geography&lt;/i&gt;</td>
<td><strong>Alec Kozicki</strong>&lt;br&gt;Semiotics in Interactive Film: Esthetical Analysis of Millennial Audience&lt;br&gt;&lt;i&gt;Faculty Research Mentor: Kyle Holody, Communication, Media, and Culture&lt;/i&gt;</td>
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<td>2:10 PM</td>
<td>Jacob Dietzel&lt;br&gt;Using Half-Weight Association Index to Analyze Stock Boundaries of South Carolina Estuarine Bottlenose Dolphins, <em>Tursiops truncatus</em>&lt;br&gt;Faculty Research Mentor: Rob Young, Marine Science</td>
<td>Kevin Kinneer&lt;br&gt;Norse Influence from America to Eurasia&lt;br&gt;Faculty Research Mentors: Carolyn Dillian and Christopher Bartlett, Anthropology &amp; Geography</td>
<td>Krystina Millar&lt;br&gt;Rewards and Resistance: The Importance of Teaching Women and Gender Studies at a Southern Liberal Arts Institution&lt;br&gt;Faculty Research Mentor: Jaime McCauley, Sociology</td>
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<td>2:30 PM</td>
<td>Nicholas Bautz&lt;br&gt;Temperature Responses of Microbial Extracellular Enzyme Activity Associated with Decaying Submerged Leaf Litter&lt;br&gt;Faculty Research Mentor: Gulis Vladislav, Biology</td>
<td></td>
<td>Krystina Millar&lt;br&gt;Double Jeopardy: Minority Stress and the Influence of Transgender Identity and Race/Ethnicity&lt;br&gt;Faculty Research Mentor: Jason Eastman, Sociology</td>
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<td>2:50 PM</td>
<td>Tessa Liner&lt;br&gt;Immunohistochemical Analysis of Tissue Hypoxia in Developing Gecko Brains&lt;br&gt;Faculty Research Mentor: Scott Parker, Biology</td>
<td>Brenna Wiinanen&lt;br&gt;The Continuation of a Composition of an Unfinished Mozart Flute Concerto&lt;br&gt;Faculty Research Mentor: Donald Sloan, Music</td>
<td>Kenley Cribb&lt;br&gt;Pre-service Teachers Conceptual Understandings and Reasoning for Curriculum Instruction, and Assessment Decisions (Revisited)&lt;br&gt;Faculty Research Mentor: Edward Jadallah, Dean, Spadoni College of Education</td>
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<td>3:10 PM</td>
<td>Allison Lavallee&lt;br&gt;Campaign Contributions and Congressional Sponsorship of Climate Change Policy&lt;br&gt;Faculty Research Mentors: Mikel Norris Mikel, Politics and Aneilya Barnes, History</td>
<td>Courtney Douglass&lt;br&gt;Consent and Online Erotica&lt;br&gt;Faculty Research Mentor: Emma Howes, Visual Art</td>
<td>Alexandria Steinmetz&lt;br&gt;Taking Initiative in a 3rd Grade Classroom: Comparing Gifted and Talented and General Education Students&lt;br&gt;Faculty Research Mentor: Richard Costner, Elementary Education</td>
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<td>3:30 PM</td>
<td>Ryan Lawrence</td>
<td>Allison Mitchell</td>
<td>Alex Foster</td>
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<td>The Current and Projected Status of the Jalisco New</td>
<td>Formal or Free Verse? Work as Work</td>
<td>Modeling Protection Strategies against Chikungunya Virus on Reunion Island</td>
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<td>Generation Cartel</td>
<td>Faculty Research Mentor: Dan Albergotti, English</td>
<td>Faculty Research Mentor: Igor Erovenko, UNC Greensboro</td>
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<td><em>Faculty Research Mentor: Joseph Fitsanakis, Politics</em></td>
<td>Faculty Research Mentors: Tom Hoffman and Ogul Arslan, Mathematics &amp; Statistics</td>
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<td>3:50 PM</td>
<td>Julie Emory</td>
<td>Corie White</td>
<td>Cannon McIntosh</td>
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<td>Political Implications of the China-United States-</td>
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<td>ChipKill: The Power of Finite Fields</td>
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<td>Taiwanese Trilateral Weapons Trade</td>
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<td><em>Faculty Research Mentor: Joseph Fitsanakis, Politics</em></td>
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<td>Riley McCormick</td>
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<td>Jeremiah Dunivin</td>
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<td>Technological Hubris in Intelligence Collection during</td>
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<td>Extension of Nevanllina-Pick Theorem Interpolation Theorem to Various Subalgebra</td>
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<td>the Cold War: A Critique of Professor Kristie Macrakis’</td>
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<td>Faculty Research Mentor: Debandra Benjade, Mathematics &amp; Statistics</td>
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<td>and Aneilya Barnes, History</td>
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2019 Undergraduate Research Competition
POSTER PRESENTATIONS
Lib Jackson Student Union – Atrium

Session I: Tuesday, April 16, 2019, 12:30-2:30pm
Session II: Wednesday, April 17, 2019, 4:30pm-6:30pm

POSTER SESSION I
Tuesday, April 16, 2019, 12:30-2:30pm

ALTMAN, KATHERINE
Optimization of Indole Additions to Aromatic Aldehydes for the Synthesis of Phidianidine Analogues
Faculty Research Mentor: Bryan Wakefield, Chemistry

BALLOU, VICTORIA, ROBERT MORDENTE, KENARD HOLMES, SHEBBENA McGREW AND DEVON CAREY
Analysis and Annotation of Gordonia Phage Mayweather
Faculty Research Mentor: Daniel Williams, Biology

BIALOUSOW, LUCAS
Alternative Methods in Synthesis of Phidianidine Analogues
Faculty Research Mentor: Bryan Wakefield, Chemistry

BYRD, BRIANNA
The Domino Effect of Masculinity
Faculty Research Mentor: David Weber, English

CARROLL, CAMERON
Design and Synthesis of Small Regulatory RNA Transcripts for the Streptolysin S Associated Gene of Group A Streptococcus
Faculty Research Mentors: Brian Lee, Chemistry and Gabriela Perez Alvarado

COX, ELISABETH
Two Synthetic Approaches to Phidianidine Analogues
Faculty Research Mentor: Bryan Wakefield, Chemistry

CUTAIA, TYLER, JAMES DALENBURG, KRISTAL BONACCORSO, OLIVIA SHIRLEY, SHIONNAH WALLACE, ZAHRA SLIMANI, BROOKE BUSBY, AND TAKIAH ANDERSON
The Discovery and Isolation of Seven New Bacteriophages
Faculty Research Mentor: Daniel Williams, Biology

DIECKMAN-MEYER, ELISABETH
3D Molecular Printing
Faculty Research Mentor: Kevin McWilliams, College of Science
DUNN, MADISON
13 Reasons Why or Why Not: Depicting Teenage Suicide in Streaming Media
Faculty Research Mentor: Deborah Breede, Communications

ECHOLS, ALEXIS
Effects of Seasonality and Sediment Permeability on Dissolved Inorganic Nitrogen in the South Carolina Grand Strand
Faculty Research Mentor: Angelos Hannides, College of Science

FORBES, GABRIELLE, CALLISTA GLEICH AND KAYLA BROTEMARKLE
Microplastics in Fiddler Crabs
Faculty Research Mentor: Eric Rosch, Marine Science

GEMMELL, SYDNEY
Could Believing in Yourself and Listening to Music Improve Memory in College Students and Older Adults?
Faculty Research Mentor: Terry Pettijohn, Psychology

HAWLEY, RICHARD
Density and Species Richness of Macrofaunal Benthic Bivalves in North Inlet, South Carolina
Faculty Research Mentor: Juliana Harding, Marine Science

HINNERSCHITZ, CAITLYN, AINSLEY FOLMER AND SAVANNAH WATSON
Structured and Unstructured Movement in 5th Grade Classrooms: Effects on Students Performance
Faculty Research Mentor: Richard Costner, Elementary Education

HOLT, ESTHER
Indole Addition to Benzylic Alcohols to Synthesize Phenyl Phidianidine Analogs
Faculty Research Mentor: Bryan Wakefield, Chemistry

LAYKO, SAMANTHA
Modeling the Hammer Throw
Faculty Research Mentor: Scott Carr, Physics and Engineering Science

LEAKE, KADARIUS
Synthesis of Phenyl Analogues Replacing the Oxadiazole Ring of Phidianidines
Faculty Research Mentor: Bryan Wakefield, Chemistry

LINER, TESSA, ALYSIA SMITH, DAWAYNE MEARES, ELMER RAMIREZ, PAIGE PIETRZAK, VIKTORIA BERKEY AND YMANI WRIGHT
Functional Analysis of Gordonia phage Kenosha
Faculty Research Mentor: Daniel Williams, Biology

MOLINA, JOSEPH, AMBER ELMADOLAR, JARED MILLER, STEPH THOMAS AND NICK WORKMAN
Consensus versus Independent Age Estimation of Muskellunge: an Analysis of Accuracy
Faculty Research Mentor: Derek Crane, Biology
PALEK, ZACHARY
Effect of Hurricane Florence on Winyah Bays Planktonic Population
Faculty Research Mentor: George Boneillo, Marine Science

POLLACK, JESSICA, FAITH SAUPE, NICHOLAS COLEMAN AND ERIN BURGE
A Diverse and Abundant Fish Assemblage Revealed using SharkCam Underwater Video off Cape Fear, North Carolina
Faculty Research Mentor: Erin Burge, Marine Science

POWELL, KYLA and HANNAH WOLF
Best Practices Outward Looking Communications of Student-run Agencies
Faculty Research Mentor: Jeffrey Ranta, Communication, Media, and Culture

SHAUGHNESSY, BRITTANY
The Media’s Vietnam: The Horror the Government Hid from America
Faculty Research Mentor: Deborah Breede, Communication

SLIFKA, VICTORIA
Analysis of Horizontal Axis Wind Turbine with Nonlinear Leading Edge Blade
Faculty Research Mentor: Roi Gurka, Department of Coastal and Marine Systems Science

SLIMANI, ZAHRA
Testing Designs for the Most Efficient and Effective Mosquito Trap
Faculty Research Mentor: Paul Richardson, Chemistry

TRACEY, ROB
Exploratory Movements of Leopard Geckos in Visual and Non-Visual Environments
Faculty Research Mentors: Ryan Yoder, Psychology, and Scott Parker, Biology

WOLFE, MATTHEW AND JENNA THOMPSON
Effects of Moderate versus Variable High Intensity Cycling on Metabolic Responses during Recovery
Faculty Research Mentor: Justin Guilkey, Kinesiology

WORKMAN, NICHOLAS
Character and Water Quality of Sandpiper Pond: a Coastal Pond Assessment, Fifteen Years after Restoration
Faculty Research Mentor: Angelos Hannides, Marine Science
POSTER SESSION II
Wednesday, April 17, 2019, 4:30pm-6:30pm

AKERS, MARY AND ALYSSA LECLAIRE
Ecosystem Engineers or Engineered by the Ecosystem?
*Faculty Research Mentors: Juli Harding, Marine Science and Louis Keiner, Director of Honors*

ANDERSON, KURTIS
Optimization of the First Coupling in Phidianadine Furan Analog Synthesis
*Faculty Research Mentor: Bryan Wakefield, Chemistry*

BEISELL, ALLIYAH
Jobs are Here! Recreation and Sport Management Student Perceptions of Recreation Industry Jobs
*Faculty Research Mentor: Nicholas Schlereth, Recreation and Sports Management*

CORTESE, CHASE
Bacteriophage Detection in the Waterways and Runoffs of our Community
*Faculty Research Mentor: Paul Richardson, Chemistry*

DAVIS, WHITNEY
The Effects of Marine Natural Products on the Microenvironment of Pancreatic Cancer
*Faculty Research Mentor: Michael Pierce, Biology*

DURICA, JOHN
Response of the Fluvial Dynamics in the Lower Santee River to the Construction of the Santee Cooper dams
*Faculty Research Mentors: Till Hanebuth, Burroughs & Chapin Center for Marine & Wetland Studies and Josh Long*

FICKES, HAILEIGH
Machismo in Mexico
*Faculty Research Mentor: Mauricio Castillo, Languages and Intercultural Studies*

HARTENSTEIN, PEYTON
Dietary Analysis of Lionfish *Pterois volitans* from Discovery Bay, Jamaica
*Faculty Research Mentor: Erin Burge, Marine Science*

HATTON, JAMES
Optimization of the Bromination of the Bis-furan Intermediate in the Synthesis of Phidianidine Analogues
*Faculty Research Mentor: Bryan Wakefield, Chemistry*

HESS, NAKKARA, JULIE EMORY AND SHANI CHERNOFF
*Faculty Research Mentor: Pamela Martin, Politics*
KLINEPETER, LOGAN
Heavy Metal Uptake in *Donax variabilis*
*Faculty Research Mentor: Kevin McWilliams, Chemistry*

LUCE, STEVEN AND KATLIN WOOD
Charcoal Wood Analysis off Brookgreen Gardens
*Faculty Research Mentor: David Palmer, History*

MUELLER, PEYTON
Effects of Perceived Audiences on Discrimination Learning in Pigeons (*Columbia Livia*)
*Faculty Research Mentor: Matthew Murphy, Psychology*

NELSON, SABRINA
Vaccination Attitudes and Science Literacy
*Faculty Research Mentor: Marlena Ryba, Psychology*

PASE, ANN-MARIE
An Analysis of Population Density and Body Condition in the Fiddler Crabs (*Genus: Uca*) Compared between Areas of High and Low Levels of Human Disturbance
*Faculty Research Mentor: Eric Rosch, Marine Science*

RAHMAN, AMBER
The Effect of a Warm-up and Foam Rolling on Hip Adduction Range of Motion
*Faculty Research Mentors: Chad Smith, Kinesiology and Hugh Lamont*

RENAUER, LOLA
Abundance Estimate of the Common Bottlenose Dolphin (*Tursiops truncatus*) in the Charleston Estuarine System Stock
*Faculty Research Mentors: Robert Young, Dani Silva and Francesa Rosetti, Marine Science*

RIOS-BRADY LILLIAN
Detection of Newly Synthesized Membrane Proteins in Isolated Squid Axoplasm from *Loligo pealeii*
*Faculty Research Mentor: Miguel Holmgren, National Institutes of Health*

SMITH, ALYSIA
Optimizing Illuminating Conditions of ROS in *Caenorhabiditis elegans*
*Faculty Research Mentor: Daniel Williams, Biology*

STEIG, KATIE, RACHEL TRUDON and AMBER RAHMAN
Examining Food Insecurity among Undergraduates at Two- and Four-year Public Institutions of Higher Education in South Carolina
*Faculty Research Mentor: Sharon Thompson Sharon, Health Sciences*

TAYLOR, TESSA
College Freshmen Behaviors and Perceptions about E-Cigarettes
*Faculty Research Mentors: Elizabeth Carter and Kyle Holody, Public Health*
THOMPSON, JENNA AND MATTHEW WOLF
Exercise Intensity, Energy Expenditure and Enjoyment during Variable High Intensity Exercise in Healthy Adults
Faculty Research Mentor: Justin Guilkey, Kinesiology

WIMMENAUER, HAILEY
The Effect of Foam Rolling on Post-Activation Potentiation Responses
Faculty Research Mentor: Jason Smith, Kinesiology

WISE, IVY
Screening for Pseudo-nitzschia along the Grand Strand
Faculty Research Mentor: Megan Cevasco, Biology

WRIGHT, RUTH
Investigation of Pathogenic Marine Fungi Origin, Support and Growth in Sand and on Coastal Beaches
Faculty Research Mentor: Karen Aguirre, Biology