Congratulations to our 2023 Undergraduate Awardees!

~ Morning Presentations ~

Morning Poster Presentation: UG: Arts, Humanities, and Social Sciences A
First Place
Optimization of Direct Food Pick-up from Dollar General Stores by Harvest Hope Food Bank Agencies
Bryn Wirthlin, Operations and Supply Chain (major), International Business (major) - Senior
Robert McConnell, Management (major), Operations and Supply Chain (major) - Senior
Dr. Sanjay Ahire, Department of Management Science

Second Place
The Sleeping Woman Speaks: Memory and Voice of the Women of the Guazapa Volcano, El Salvador
Cynthia Curtis, Anthropology, Native American Studies (major); English (minor) - Senior; USC Lancaster
Prof. Chris Judge, Anthropology, USC Lancaster

Honorable Mention
The Impact of the Fall of the Soviet Union on Russian Speakers in Armenia
Savannah Faust, Operations and Supply Chain (major) - Sophomore
Dr. Michael Gavin, Department of English Language and Literature

Morning Poster Presentation: UG: Arts, Humanities, and Social Sciences B
First Place
Savages, Victims, and Saviors in Film: Human Rights Brought to Life on Screen
Jacquelyn Burnett, Geography (major), Global Studies (major) - Senior
Dr. Meredith DeBoom, Department of Geography

Second Place
The Impact of Gavin Grimm v. Gloucester County School Board on Transgender-Case Law in the United States
Emmeline Basco, Political Science (major), Philosophy (minor) - Senior
Dr. Jessica Schoenherr, Department of Political Science
Dr. Chase Meyer, Department of Political Science

Honorable Mention
Optimization of Direct Food Pick-up from Dollar General Stores by Harvest Hope Food Bank Agencies
Gracie-Jane Hillman, Operations and Supply Chain (major), Psychology (major) - Senior
Evan Angelucci, Operations and Supply Chain (major), International Business (major) - Senior
Andrew Krznarich, Operations and Supply Chain (major), International Business (major) - Senior
Dr. Sanjay Ahire, Department of Management Science

Morning Poster Presentation: UG: Arts, Humanities, and Social Sciences C
First Place
The Strength of Identity: First-hand Accounts from Daugavpils, Latvia
Andrew Marks, International Business (major), Russian (major) - Senior
Dr. Andrew Spicer, Sonoco Department of International Business

Second Place
The Aggression Research Project: Possible Implications for Policy Making
Hailey Alderson, Psychology (major), Criminal and Justice (minor) – Senior
Dr. Marketa Kubickova, School of Hospitality and Tourism Management

Morning Poster Presentation: UG: Biology and Biomedical Sciences A
First Place
Local translation and focal adhesions are dysregulated in Down syndrome
Ashlyn Gotberg, Biological Sciences (major), Chemistry (minor) - Senior
Dr. Kristy Welshhans, Department of Biological Sciences
Ms. Nikita Kirkise, Department of Biological Sciences
Second Place

**The Interplay Between Ferroptosis-Related Gene Expression and Smoking in Lung Adenocarcinoma**
*Amber Pospistle*, Baccalaureus Artium et Scientiae (major) - Sophomore
Dr. Guoshuai Cai, Department of Environmental Health Sciences

**Honorable Mention-Tie**

**Role of the cell surface adhesion molecules Neuritins in visual system wiring**
*Eesha Gurav*, Interdisciplinary Studies (major) - Junior
Dr. Fabienne Poulain, Department of Biological Sciences

**Honorable Mention-Tie**

**Exosome delivered microRNA therapeutics for Glioblastoma.**
*Sara Zepp*, Biological Sciences (major), Dance (minor) - Senior
Dr. Deepak Bhere, Pathology, Microbiology, and Immunology

Morning Poster Presentation: UG: Biology and Biomedical Sciences B

**First Place**

**Loss of Paxillin Affects the Morphology and Cytoskeletal Composition of Developing Cortical Neurons**
*Kasey Gillespie*, Public Health (major), Biology (minor) - Senior
Dr. Kristy Welshhans, Department of Biological Sciences
Ms. Katelyn Rygel, Department of Biological Sciences

**Second Place**

**A Yeast Two Hybrid Screen Identifies Potential Targets of the Ubiquitin Ligase WWP1 in the Heart**
*Meaghan Arnold*, Biological Sciences (major), Dance (minor) - Junior
Dr. Lydia Matesic, Department of Biological Sciences
Ms. Ymani Wright, Department of Biological Sciences
Dr. Doug Pittman, Department of Drug Discovery & Biomedical Sciences

**Honorable Mention-Tie**

**Developmental Windows When Exposure to Antibiotics Increase the Risk for Early Onset Colorectal Cancer**
*Mia Joseph*, Biological Sciences (major), Interdisciplinary Studies (major) - Junior
Dr. Marj Pena, College of Arts and Sciences

**Honorable Mention-Tie**

**Characterizing Reproductive Isolation Between Two Laboratory Island Populations of Drosophila melanogaster**
*Skylar McNulty*, Biological Sciences (major), Business Administration (minor) - Senior
Mr. Graham McLaughlin, Department of Biological Sciences
Dr. Brian Hollis, Department of Biological Sciences

Morning Poster Presentation: UG: Biology and Biomedical Sciences C

**First Place**

**Identifying New Aβ Oligomerization Method with use for Inflammatory Cells**
*Lauren Speck*, Biomedical Engineering (major), Business Administration (minor) - Senior
Dr. Melissa Moss, Department of Biomedical Engineering
Mrs. Mihyun Waugh, Department of Biomedical Engineering

**Second Place**

**Synthesis and Antibacterial Effects of Facial Amphiphilic Multicyclic Compounds**
*Michael DeFiori*, Biochemistry and Molecular Biology (major) - Senior
Prof. Chuanbing Tang, Department of Chemistry and Biochemistry
Dr. Swagatam Barman, Department of Chemistry and Biochemistry

**Honorable Mention**

**Does the synthetic food dye Blue-1 cause DNA damage?**
*Quinn Harris*, Neuroscience (major) - Sophomore
Dr. Lorne Hofseth, Department of Drug Discovery & Biomedical Sciences
Dr. Alexander Chumanevich, College of Pharmacy
Morning Poster Presentation: UG: Biology and Biomedical Sciences D

**First Place**

*The Role of SARS-CoV Non-structural protein 1 in Regulating RNA stability*

*Kevin Xiong*, Biology (major), Chemistry (minor) - Senior; USC Upstate  
*Dr. Anita Nag*, Division of Natural Sciences and Engineering, USC Upstate  
*Mrs. Kaitlin Bridges*, Division of Natural Sciences and Engineering, USC Upstate

**Second Place-Tie**

*Examination of Genetic Associations with Autism Symptoms, Adaptive Living Skills, and Developmental Ability in Fragile X Syndrome*

*Sarah Aloi*, Biological Sciences (major), Neuroscience (minor) - Junior  
*Ms. Erin Hunt*, The Graduate School  
*Dr. Jane Roberts*, Department of Psychology

Second Place-Tie

*Mutational effects of the human norepinephrine transporter on basal and Tat-induced inhibition of dopamine transport*

*Darby Porter*, Chemistry (major), Neuroscience (minor) - Senior  
*Dr. Jun Zhu*, Department of Drug Discovery & Biomedical Sciences

Morning Poster Presentation: UG: Biology and Environmental Sciences A

**First Place**

*Towards the Development of a Dehaloperoxidase-Based Biosensor for Bisphenol A*

*Emily Welles*, Biology (major) - Senior; USC Beaufort  
*Prof. Edward D'Antonio*, Department of Natural Sciences, USC Beaufort

**Second Place**

*Impact of Environmental Factors on Floral Scent Emission of Gelsemium sempervirens*

*Charis Grabbe*, Bachelor of Liberal Studies in Biology and Chemistry - Sophomore; USC Lancaster  
*Dr. Bettie Obi Johnson*, Science, USC Lancaster  
*Dr. Annette Golonka*, Science, USC Lancaster

Morning Poster Presentation: UG: Biology and Environmental Sciences B

**First Place**

*Scientific Analysis of Ocean Alkalinity Enhancement as a CDR Method*

*Isabel Hubbard*, Environmental Science (major) - Senior  
*Claire Hanson*, Environmental Science (major) - Senior  
*Dr. Lori Ziolkowski*, School of Earth, Ocean, and Environment

**Second Place**

*An Innovative Approach to Mitigating Climate Change: Prospects and Challenges of Direct Air Capture Technology*

*Kamari Boyd*, Environmental Science (major) - Senior  
*Lucas Clifford*, Environmental Science (major) - Senior  
*Dr. Lori Ziolkowski*, School of Earth, Ocean, and Environment

**Honorable Mention**

*ENVR 480: Pollinator Habitat Enhancement Through Communities*

*Marc Dao*, Environmental Science (major), English (minor) - Senior  
*Eli Cohen*, Environmental Studies (major), Economics (major) - Senior  
*Jamison Dove*, Environmental Studies (major) - Senior  
*Dr. Carol Boggs*, Department of Biological Sciences

Morning Poster Presentation: UG: Biology and Environmental Sciences C

**First Place**

*Plant responses to volatile fatty alcohols with different side chains – a Structure-Function Analysis*

*Owen Cole*, Biological Sciences (major), Business Administration (minor) - Junior  
*Dr. Johannes Stratmann*, Department of Biological Sciences

**Second Place**

*Feeding habits of the Sandbar shark, Carcharhinus plumbeus, off of the Southeast coast of the U.S from 2006-2022*

*Emma Jackson*, Marine Science (major) - Senior  
*Dr. John Carlson*, National Marine Fisheries Service (NOAA), Research Fish Biologist
Honorable Mention-Tie

**Exploring the Political, Economic, and Social Dimensions of Direct Air Capture Technology**  
*Logan Brodfuehrer*, Environmental Science (major), Theatre (minor) - Senior  
*Jessica Pikula*, Environmental Science (major), Statistics (major) - Senior  
Dr. Lori Ziolkowski, School of Earth, Ocean, and Environment

Honorable Mention-Tie

**Earthquakes in SC: Analysis of Network and Nodal Seismic Data**  
*Ashley Ford*, Geological Sciences (major) - Senior  
Dr. Daniel Frost, School of Earth, Ocean, and Environment

Morning Poster Presentation: UG: Biology and Environmental Sciences D

First Place

**An Investigation of National Estuarine Research Reserves for Grades 6-12**  
*Kaitlyn Dirr*, Biological Sciences (major), Marine Science (minor) - Senior  
Dr. Erin Meyer-Gutbrod, School of Earth, Ocean, and Environment

Second Place

**Investigating environmental controls on the temporal distribution of Microseira wollei in Lake Wateree, SC**  
*Ella Levicki*, Marine Science (major) - Junior  
Dr. Annie Bourbonnais, School of Earth, Ocean, and Environment

Honorable Mention

**Influence of Resource Availability on Eye Size and Reproduction in Daphnia**  
*David Abdulrahman*, Biological Sciences (major), Music Industry Studies (minor) - Senior  
Dr. Jeffry Dudycha, Department of Biological Sciences

Morning Poster Presentation: UG: Biology and Environmental Sciences E

First Place

**Phenotypic Responses of Hemiselmis pacifica to Changes in Spectral Environment**  
*Ian Jin*, Environmental Science (major), Geography (minor) - Senior  
Dr. Tammi Richardson, Department of Biological Sciences

Second Place

**Questions, dead ends, and discovery: an ecological exploration of the Panulirus argus – Carcinonemertes conanobrieni symbiosis.**  
*Heather Bruck*, Biological Sciences (major) - Senior  
Dr. Donald Behringer, University of Florida, Fisheries & Aquatic Sciences  
Dr. Antonio Baeza, Clemson University, Biological Sciences  
Dr. Jeffry Dudycha, Department of Biological Sciences

Honorable Mention

**RoboCat: A Self-positioning platform for stationary measurements in the Aquatic environment**  
*Lilian Lamb*, Computer Engineering (major) - Senior  
Dr. George Voulgaris, School of Earth, Ocean, and Environment  
Dr. Ioannis Rekleitis, Department of Computer Science and Engineering

Morning Poster Presentation: UG: Chemistry, Physics, and Math A

First Place

**Discovery of promiscuous N-methyltransferase leads to production of new dimethylated lanthipeptides with improved antibacterial activity**  
*Conor Pulliam*, Biochemistry and Molecular Biology (major), Neuroscience (minor) - Junior  
Dr. Jie Li, Department of Chemistry and Biochemistry  
Dr. Dan Xue, Department of Chemistry and Biochemistry  
Mr. Ethan Older, Department of Chemistry and Biochemistry

Second Place

**Quantitative measurement of polymer-nanocrystal coordination towards development of highly stable aqueous quantum dot fluorophores**  
*Emily Cook*, Chemistry (major) - Senior  
Dr. Andrew Greytak, Department of Chemistry and Biochemistry  
Mr. Nuwanthaka Jayaweera, Department of Chemistry and Biochemistry
Morning Poster Presentation: UG: Chemistry, Physics, and Math B

First Place

Chiral Isothiourea Catalysts for Enantioselectivity and Intermolecular Interactions
Amanda McGowan, Biochemistry and Molecular Biology (major) - Senior
Dr. Sheryl Wiskur, Department of Chemistry and Biochemistry

Second Place

Characterizing the In Vivo role of monothiol glutaredoxin GrxD in E. coli
Anna Dickfoss, Biochemistry and Molecular Biology (major) - Senior
Alexander Dibattista, Biochemistry and Molecular Biology (major) - Senior
Dr. Wayne Outten, Department of Chemistry and Biochemistry
Ms. Claire Fisher, Department of Chemistry and Biochemistry

Morning Display Presentation: UG: Engineering and Computing AA

First Place

Automated Coffee Machine
Ryan VanWyk, Chemical Engineering (major) - Senior
Alexandra Stuedli, Biomedical Engineering (major), Business Administration (minor) - Senior
Rori Pumphrey, Mechanical Engineering (major), Mathematics (minor) - Freshman
Sai Durga Rithvik Oruganti, Computer Engineering (major) - Senior
Venkata Naga Anirudh Oruganti, Computer Engineering (major), Statistics (major) - Senior
Alex Wojcik, Mathematic (major), Electrical Engineering (major) - Senior
Ms. Sowmya Raghu, Department of Mechanical Engineering

Second Place

Self-Balancing Robot
Sai Durga Rithvik Oruganti, Computer Engineering (major) - Senior
Venkata Naga Anirudh Oruganti, Computer Engineering (major), Statistics (major) - Senior
Alexandra Stuedli, Biomedical Engineering (major), Business Administration (minor) - Senior
Ryan VanWyk, Chemical Engineering (major) - Senior
Rori Pumphrey, Mechanical Engineering (major), Mathematics (minor) - Freshman
Alex Wojcik, Mathematic (major), Electrical Engineering (major) - Senior
Ms. Sowmya Raghu, Department of Mechanical Engineering

Morning Poster Presentation: UG: Engineering and Computing A

First Place-Tie

Identifying The Parameters That Affect The Quality Of 3D Printed Objects Of PLA Materials
Edith Gonzalez-Mora, Mechanical Engineering (major) - Senior
Dr. Jamil Khan, Department of Mechanical Engineering

First Place-Tie

Facial Expression Recognition at the Edge: CPU vs GPU vs VPU vs TPU
Lareb Khan, Computer Engineering (major), Mathematics (minor) - Senior
Dr. Ramtin Zand, Department of Computer Science and Engineering
Mr. MohammadReza Mohammadi, Department of Computer Science and Engineering

Second Place

Pavement Distresses in South Carolina
Kaitlyn Steigner, Civil Engineering (major) - Senior
Dr. Sarah Gassman, Department of Civil and Environmental Engineering

Morning Poster Presentation: UG: Engineering and Computing B

First Place

Finite element modeling of melt pool and stress evolution for tungsten during laser powder bed fusion
Jan Weaver, Mechanical Engineering (major) - Senior
Dr. Lang Yuan, Department of Mechanical Engineering
Second Place

**Apoptotic-Inspired Particles Target and Modulate Macrophage Inflammation**

*Caroline Rucker*, Biomedical Engineering (major), Spanish (minor) - Sophomore  
Dr. Michael Gower, Department of Chemical Engineering  
Mr. Kidochukwu Atube, Department of Chemical Engineering

Morning Poster Presentation: UG: Health Sciences A

**First Place-Tie**

**Hearing Loss and Communication: Speech, Social Effects, and Accessibility**

*Samantha Feeney*, Public Health (major), French (minor) - Senior  
*Harshitha Visikamalla*, Baccalaureus Artium et Scientiae (major) - Sophomore  
Dr. Lisa Fitton, Department of Communication Sciences and Disorders

**First Place-Tie**

**Association between the HDL-sized and circulating plasma proteomes**

*Riley Reasons*, Baccalaureus Artium et Scientiae (major) - Junior  
Dr. Mark Sarzynski, Department of Exercise Science

Second Place

**Content Analysis of Food and Beverage Television Advertisements in Urban Accra, Ghana.**

*Marian Winters*, Public Health (major), Interdisciplinary Studies (major) - Sophomore  
Ms. Morgan Boncyk, Department of Health Promotion, Education and Behavior  
Dr. Christine Blake, Department of Health Promotion, Education and Behavior  
Dr. Krystal Rampalli, Department of Health Promotion, Education and Behavior

Honorable Mention

"Alexa Play" ...: A Descriptive Study of the Music Genres Requested by Older Adults

*Jonathan Foster Richey*, Music (major), Nursing - Generic (major) - Senior  
Dr. Cynthia F. Corbett, College of Nursing

Morning Poster Presentation: UG: Health Sciences B

**First Place**

**Gender Differences in Functional Motor Competence and Self-Perception in Army Reserve Officer Training Corps Cadets**

*Allison Tracy*, Exercise Science (major) - Senior  
*Jennifer Robinson*, Exercise Science (major), Naval Science (minor) - Senior  
Dr. David Stodden, Department of Physical Education  
Ms. Giovanna Leone, Department of Physical Education  
Dr. Cade Abrams, Department of Physical Education

Second Place

**Healthcare Transitions: Exploring Young Adults’ Perceptions of the Transition from Pediatric to Adult Care**

*Bailey Goldschmidt*, Nursing - Generic (major) - Junior  
Dr. Robin Dawson, College of Nursing  
Dr. Coretta Jenerette, College of Nursing

Morning Poster Presentation: UG: Health Sciences C

**First Place**

**Exploring Stress Levels among USC Students**

*Khushi Patel*, Public Health (major) - Junior  
*Shelby Lester*, Nursing - Generic (major) - Senior  
*Natalie Trimble*, Nursing - Generic (major) - Junior  
*Charlotte Burts*, Nursing - Generic (major) - Sophomore  
*Addison Simpson*, Nursing - Generic (major) - Sophomore  
*Sydney Reichardt*, Nursing - Generic (major) - Junior  
Dr. Cynthia Corbett, College of Nursing  
Dr. Pamela Wright, College of Nursing  
Dr. Phyllis Raynor, College of Nursing
Second Place
Criminalization of Abortion in the United States: A Case Study of South Carolina
Muskaan Makkar, Public Health (major), Economics (minor) - Sophomore
Elliott Catoe-Griffis, Public Health (major), Interdisciplinary Studies (major) - Freshman
Dr. Deborah Billings, Department of Health Promotion, Education and Behavior
Dr. Natalia Deeb-Sossa, University of California at Davis

Morning Poster Presentation: UG: Health Sciences D
First Place
Telehealth Administration of the Pragmatic Rating Scale
Kathryn Klein, Biological Sciences (major), Psychology (major) - Senior
Dr. Jessica Klusek, Department of Communication Sciences and Disorders

Second Place
Disparities regarding patients' distance to pharmacy affecting adherence to oral-targeted cancer therapies
Kaylee Williams, Baccalaureate Artium et Scientiae (major) - Junior
Dr. Karen Wickersham, College of Nursing
Dr. Amy Ballou, College of Nursing

Honorable Mention
Hypermobile Ehlers-Danlos Syndrome: A Holistic Treatment Workbook
Mackenzie Farmer, Public Health (major), Interdisciplinary Studies (major) - Junior
Dr. Teresa Moore, Department of Exercise Science
Dr. Matthew Ulcak, Carolina Physical Therapy and Sports Medicine, Clinical Director

Morning Poster Presentation: UG: Health Sciences E
First Place
The role of the skeletal muscle androgen receptor to regulate polycystic ovarian syndrome-linked insulin resistance.
Aarushi Bhasin, Biological Sciences (major), Psychology (minor) - Senior
Dr. Reilly Enos, Pathology, Microbiology, and Immunology

Second Place
Associations between Cultural Factors and Health Outcomes Among African American Women: Preliminary Results from the TEAM-PA Trial
Eliza Davis, Nursing - Generic (major) - Sophomore
Anika Nair, Public Health (major), Interdisciplinary Studies (major) - Junior
Dr. Allison Sweeney, College of Nursing
Mr. Timothy Simmons, College of Nursing

Morning Poster Presentation: UG: Psychology and Neuroscience A
First Place
Perceived Broken Promises? Psychological Contract Breach and Student Retention
Kristine Deloa, Psychology (major), Business Administration (minor) - Senior; USC Upstate
Dr. Justin Travis, Department of Psychology, USC Upstate

Second Place-Tie
Role of Nucleus Accumbens Dopamine Receptor Signaling in the Suppression of Punished Reward Seeking
Grace Joyner, Biological Sciences (major), Neuroscience (minor) - Senior
Dr. Peter Vento, Department of Psychology

Second Place-Tie
Promoting Young Autistic Children's Social Engagement in an NDBI-Informed Creative Dance Program
Kynslea Philcox, Psychology (major), Dance (major) - Senior
Dr. Sarah Edmunds, Department of Psychology
Ms. Alayna Borowy, Department of Psychology
Ms. Laney Hankins, Department of Psychology
Morning Poster Presentation: UG: Psychology and Neuroscience B

First Place

**Developing Improved Methods for the Detection of Cysteine Succination and Cysteine Dicarboxypropylation**

*Emery Tran*, Biological Sciences (major) - Senior  
Dr. Norma Frizzell, Pharmacology, Physiology, and Neuroscience

Second Place

**Opposing roles of enkephalin and dynorphin in the amygdala on resilience to social stress in females**

*Alexandria Nowicki*, Biochemistry and Molecular Biology (major), Women’s and Gender Studies (minor) - Senior  
Dr. Susan Wood, Pharmacology, Physiology, and Neuroscience  
Dr. Cora Smiley, Pharmacology, Physiology, and Neuroscience

Morning Poster Presentation: UG: Psychology and Neuroscience C

First Place

**Dyslexia Screener for English Language Learners**

*Roberto Ornelas Saldivar*, Psychology (major), Biological Sciences (major) - Junior  
Dr. Scott Decker, Department of Psychology

Second Place

**Investigating Potential Influences on Part C Enrollment by State, Year, and Racial Group**

*Emily Thomas*, Psychology (major), Business Administration (minor) - Freshman  
Dr. Sarah Edmunds, Department of Psychology  
Ms. Katie Rowland, Department of Psychology

Morning Poster Presentation: UG: Psychology and Neuroscience D

First Place-Tie

**Sex differences in the acquisition and extinction of platform mediated avoidance: Role of glucocorticoid receptors**

*Parker Dhillon*, Biological Sciences (major), Neuroscience (minor) - Senior  
Dr. Aaron Jasnow, Pharmacology, Physiology, and Neuroscience

First Place-Tie

**Targeting Synaptic and Extra-Synaptic NMDARs to Reverse Age-Related Memory Loss**

*Melanie Tieman*, Biological Sciences (major), Interdisciplinary Studies (major) - Senior  
Dr. Joseph McQuail, Pharmacology, Physiology, and Neuroscience

Second Place

**YOUTHS’ PERSPECTIVES ON TESTING POSITIVE FOR HIV IN SOUTH CAROLINA: IMPLICATIONS FOR ENDING THE HIV EPIDEMIC**

*Paris Harrington*, Psychology (major), General Education (minor) - Senior  
*John Porter*, Mathematic (major), Neuroscience (minor) - Sophomore  
Dr. Sayward Harrison, Department of Psychology

Honorable Mention

**The Role of Age and Empathy Levels on Mental Health Stigma**

*Fatima Jatoi*, Psychology (major), Neuroscience (minor) - Junior  
Dr. Melanie Palomares, Department of Psychology

Morning Poster Presentation: UG: Experiential Learning and GLD A

First Place

**How a Tour led to a Successful College Career**

*Joshua Hopkins*, Psychology (major), Counselor Education (minor) - Senior

Second Place-Tie

**Leading the way one voice at a time**

*Trenell Boyd*, Biological Sciences (major) - Senior  
Ms. Julia Ballou, Preston Residential College  
Mrs. Lauren Epps, Center for Integrative and Experiential Learning, U401 Professor

Second Place-Tie

**My College of Engineering and Computing Ambassador Experience**

*Elizabeth Collins*, Civil Engineering (major) - Senior
Morning Poster Presentation: UG: Experiential Learning and GLD B

First Place
Fulfilling a Dream
Candice Webber, Interdisciplinary Studies (major), Military Science (minor) - Senior

Second Place-Tie
Coming Home to Roost
Anaiah Kenas, Public Health (major), Spanish (minor) - Senior

Second Place-Tie
The Effects of Involvement in the Professional and Civic Spaces
Camila Pereira, Integrated Information Technology (major), Business Administration (minor) - Senior

Morning Poster Presentation: UG: Experiential Learning and GLD C

First Place
Growing into a Well-Rounded Leader
Eleanor Barnett, Public Health (major), Business Administration (minor) - Senior
Prof. Megan Colascione, Student Life

Second Place
Making an Impact Through Student Leadership
Kayla Shannon, Sport and Entertainment Management (major), Interdisciplinary Studies (major) - Senior

Honorable Mention
Academic Publishing Engagement
Jala Robertson, English (major), Interdisciplinary Studies (major) - Senior

Morning Poster Presentation: UG: Experiential Learning and GLD D

First Place
Student Employees within USC Admissions
Holly Chandler, Hospitality Management (major) - Senior
Dr. Antony Keane-Dawes, College of Arts and Sciences

Second Place
The role of proper documentation in both professional and academic accountability
Jake Richardson, Chemical Engineering (major), Computer Science (minor) - Senior

Honorable Mention
Values-Based Recruitment = Empowered Women of the Future
Sofia Torgersen, Public Health (major), Psychology (minor) - Senior

Morning Poster Presentation: UG: Experiential Learning and GLD E

First Place
Communication, Cultural Humility, and Advocacy: The Pillars of a Successful Career
Lindsey Bonk, Criminology and Criminal Justice (major), Computer Science (minor) - Senior
Dr. Kelly Goldberg, Department of Anthropology

Second Place
Increasing Utilization Through Process-Based Decision Making
Emily Saidel, Operations and Supply Chain (major), Marketing (major) - Senior

Honorable Mention
Creating a Sustainable, Equitable, and Walkable City via Improving Public Transportation
Blake Gibbons, Geography (major), Political Science (major) - Senior

Morning Poster Presentation: UG: CIEL/GLD - Cultural Diversity A

First Place
How Gender is Illustrated Through Multiple Levels of Perceptions
Veronica Finnan, International Business (major), Japanese (minor) - Senior
Ms. Megan Colascione, Student Life

Second Place-Tie
More than one culture
Lucas Montandon, Associate in Science, Associate in Arts - Sophomore; USC Salkehatchie
Second Place-Tie
  Finding my way, literally
  Luis Quinones, Associate in Arts - Sophomore; USC Salkehatchie

Honorable Mention
  Politics in Latin America - from the mountains to the rainforest
  Tessa Sergile, International Business (major), Management (major) - Senior

Morning Poster Presentation: UG: CIEL/GLD - Cultural Diversity B
First Place
  Music Across Cultures
  Charlotte Downs, Music (major) - Senior
Second Place
  From A1 to B2: Becoming a Student and Leader in the Russian Language
  Ingrid Lavin, Russian (major), Political Science (minor) - Senior

Morning Poster Presentation: UG: CIEL/GLD - Education A
First Place
  Peer to Peer Leadership: My journey as a Peer Consultant
  Dylan Bartlett, Economics (major), Business Administration (minor) - Senior
  Prof. Megan Colascione, Student Life
Second Place
  University 101 Peer Leader: More than just a Position
  Emma Barrentine, Public Health (major) - Senior
  Ms. Kitty Sutton, University 101 Programs
Honorable Mention
  Being the One: Being the person I needed freshman year
  Marjorie (Maggie) Siciliano, Visual Communications (major), Integrated Information Technology (minor) - Senior

Morning Poster Presentation: UG: CIEL/GLD - Entrepreneurial A
First Place
  Building an Effective Team
  Grace Bryant, Public Relations (major), Event Management (minor) - Senior
Second Place
  Investing in People
  Jackie McKenna, Finance (major), International Business (major) - Senior
  Ms. Keah Tandon, University 101 Programs
Honorable Mention
  Turning Ideas into Reality: The Power of Visualization
  Shane Bakley, Finance (major) - Senior

Morning Poster Presentation: UG: CIEL/GLD - Entrepreneurial B
First Place
  Credit Improvement Coaching: A Solution to Homeownership Barriers
  Erin Slack, Political Science (major), Mass Communications (minor) - Senior
  Prof. Rico Reed, National Resource Center
Second Place
  Leadership in Marketing Scholars Program
  Olivia Vonderhaar, Marketing (major), Advertising and Public Relations (minor) - Senior

Morning Poster Presentation: UG: CIEL/GLD - Policy and Governance A
First Place
  The People Closest to the Problem are the Closest to the Solution: An Empirical Perspective of Health Policy
  Samantha Johnson, Global Studies (major), Women's and Gender Studies (major) - Senior
Second Place-Tie

**Professional Engagement: Interning with the City of Columbia**
Allie Cyr, Public Relations (major), Business Administration (minor) - Senior
Mrs. Sarah Gina, Leadership and Service Center

Second Place-Tie

**Effective Communication in the Legal Field**
Amanda Harvey, Political Science (major), Interdisciplinary Studies (major) - Senior

Morning Poster Presentation: UG: CIEL/GLD - Wellness and Health A

First Place

**The Expression of Unheard Diabetes Narratives**
Heny Patel, Biochemistry and Molecular Biology (major) - Senior
Dr. Melissa Nolan, Department of Epidemiology and Biostatistics

Second Place

**Discovering Who I am Through HOSA**
Hinal Patel, Biological Science (minor) - Senior

Morning Poster Presentation: UG: CIEL/GLD - Wellness and Health B

First Place

**Sharing My Mental Health Story: Vulnerability is Strength**
Gabriella Wolske, Management (major), Marketing (major) - Senior

Second Place

**Health is Not Always a Choice**
Julia Blay, Public Health (major), Business Administration (minor) - Senior

Honorable Mention

**The Determinants of Health in the Adult Emergency Room**
Madeline Ward, Public Health (major) - Senior

Morning Poster Presentation: UG: CIEL/GLD - Wellness and Health C

First Place-Tie

**Evaluating the Ethics of Research in a Global Health Setting**
Ava Gierek, Public Health (major) - Senior

First Place-Tie

**Empathy Belongs in the Workplace**
Kathleen Hanrahan, Psychology (major), Counselor Education (minor) - Senior

Second Place

**Fostering Growth in an Everchanging Society**
Will Murray, Management (major) - Senior

Honorable Mention

**Cognition of linguistic and Communication**
Akshat Mehta, Biological Sciences (major), Neuroscience (minor) - Senior
Prof. Rico Reed, National Resource Center for FYE and Students in Transition

Morning Poster Presentation: UG: CIEL/GLD - Wellness and Health D

First Place

**The Interconnectedness of Community Service and Public Health: A Reflection on Academic and Extracurricular Experiences**
Hannah Leili, Public Health (major), Spanish (minor) - Senior

Second Place

**Medicine of the Heart**
Shaniya Vhora, Biochemistry and Molecular Biology (major), Business Administration (minor) - Senior
Congratulations to our 2023 Undergraduate Awardees!

~ Afternoon Presentations ~

Afternoon Display Presentation: UG: Arts, Humanities, and Social Sciences BB

First Place

An Exploration of the Social and Economic Factors that Influence the Mental Health of LGBTQ College Students
Alexandria Fossum, Media Arts (major), Biology (minor) - Senior
Dr. Kate Flory, Department of Psychology

Afternoon Poster Presentation: UG: Arts, Humanities, and Social Sciences D

First Place

Optimal Food Donation Pick-Ups by Harvest Hope Food Bank Trucks from Retailers in Greenville and Florence Region
Will Morgison, Operations and Supply Chain (major) - Senior
Rechal Patel, Operations and Supply Chain (major) - Senior
Sarah Davis, Operations and Supply Chain (major) - Senior
Cara Yagiello, Operations and Supply Chain (major) - Senior
Mason Kirby, Operations and Supply Chain (major) - Senior
Dr. Sanjay Ahire, Department of Management Science

Second Place

Analyzing Syrian Refugee Experiences in Istanbul through their Presentations on Social Media
Nori Morgan, International Studies (major), Anthropology (minor) - Senior
Dr. Breanne Grace, College of Social Work

Afternoon Poster Presentation: UG: Arts, Humanities, and Social Sciences E

First Place

Engaging Chemistry Students with Classroom Games
Andrew Ferebee, Associate in Science - Sophomore; USC Lancaster
Dr. Bettie Obi Johnson, Science, USC Lancaster
Prof. Jill Castiglia, Science, USC Lancaster

Second Place

The Role of Moral Theory in Regulating Offensive Behavior
Salomon Campos-Rice, Baccalaureus Artium et Scientiae (major) - Junior
Dr. Justin Weinberg, Department of Philosophy

Honorable Mention

It is more than the Posts and Likes on Instagram! Investigating the mediating roles of FOMO and Upward Social Comparison
Alyson Pearce, International Business (major), Marketing (major) - Freshman
Dr. Jung-Hwan Kim, Department of Retailing

Afternoon Poster Presentation: UG: Arts, Humanities, and Social Sciences F

First Place

The Relationship between Generation Status, Acculturation, and Responses to Anti-Asian Racism in the Context of the COVID-19 Pandemic
Isabella Ouyang, Biological Sciences (major), Business Administration (minor) - Junior
Ms. Wendy Chu, Department of Psychology

Second Place

Economic Development in Columbia, SC
Weston Watts, Mathematic (major), Economics (major) - Junior
Sam Maloney, Mathematic (major), Economics (major) - Sophomore
Olivia Sentlinger, Economics (major) - Senior
Todd Whittington, Economics (major) - Senior
Dr. Elizabeth Watson, Department of Economics
Honorable Mention-Tie

**Examining Language and Gender in Political Rhetoric**
*Kiley Cosby*, Political Science (major), Informatics (minor) - Junior
Dr. Joshua Meyer-Gutbrod, Department of Political Science

**Linguistic Freedom in the Republic of Azerbaijan**
*Maeve Smith*, Political Science (major), Speech Communication (minor) - Junior
Dr. Stanley Dubinski, Department of English Language and Literature
Dr. Michael Gavin, Department of English Language and Literature

### Afternoon Poster Presentation: UG: Biology and Biomedical Sciences E

**First Place**

**Overexpression, Purification, and Biochemical Evaluation of Trypanosoma cruzi Glucokinase Bump Mutations for Drug-Target Validation**
*Lindsey Baker*, Biology (major) - Sophomore; USC Beaufort
Prof. Edward D'Antonio, Department of Natural Sciences, USC Beaufort

**Second Place**

**Inflammatory Cytokine Modulation of Amyloid-β Aggregation**
*Shannon DePratter*, Biomedical Engineering (major), Neuroscience (minor) - Junior
Dr. Melissa Moss, Department of Chemical Engineering

**Honorable Mention-Tie**

**Development, Testing, and Validation of AI-Driven Image Analysis Software**
*Jackson Goldsmith*, Mechanical Engineering (major), Business Administration (minor) - Junior
Dr. John Eberth, Cell Biology and Anatomy

**Honorable Mention-Tie**

**Exploring the effect of antipsychotics on eIF2α signaling and neuronal differentiation**
*Sanjana Parise*, Public Health (major), Interdisciplinary Studies (major) - Freshman
Prof. Rekha Patel, Department of Biological Sciences
Mrs. Tricia Simon, Department of Biological Sciences

### Afternoon Poster Presentation: UG: Biology and Biomedical Sciences F

**First Place**

**Production of Lymphocyte Antigen 6 Proteins - Targets for Cancer Treatment**
*Megha Patel*, Biochemistry and Molecular Biology (major), Anthropology (minor) - Senior
Dr. Maksymilian Chruszcz, Department of Chemistry and Biochemistry
Mr. Ricardo Hernandez, Department of Chemistry and Biochemistry

**Second Place**

**ATF4 Downstream Effects are Cell-Context Specific in Neurons and Glia**
*Ashutosh Arora*, Biological Sciences (major), Interdisciplinary Studies (major) - Junior
Dr. Jeff Twiss, Department of Biological Sciences
Dr. Pabitra Sahoo, Department of Biological Sciences

### Afternoon Poster Presentation: UG: Biology and Biomedical Sciences G

**First Place**

**The Role of Cannabinoid Receptor 1 in Murine Models of Crohn's Disease**
*Colin Finney*, Biological Sciences (major) - Senior
Dr. Melissa Ellermann, Department of Biological Sciences

**Second Place**

**Disrupted Axonal mRNA Transport Links Mitochondrial Function to Charcot-Marie-Tooth type 4J Neuropathy**
*Mary McElveen*, Baccalaureus Artium et Scientiae (major) - Junior
Dr. Jeff Twiss, Department of Biological Sciences

**Honorable Mention**

**Role of transforming growth factor beta1 in development and progression of mitral valve disease**
*Ahad Chatta*, Biochemistry and Molecular Biology (major), Computer Science (minor) - Junior
Dr. Mohamad Azhar, Cell Biology and Anatomy
Afternoon Poster Presentation: UG: Biology and Biomedical Sciences H

First Place
- **Ovarian Proteomics Profile in Mice Overexpressing a Human MMP14 Transgene in Fibroblasts**
  
  *Lauren James*, Biological Sciences (major), French (minor) - Senior
  
  Dr. Holly LaVoie, Cell Biology and Anatomy

Second Place-Tie
- **The identification of the 3' untranslated region motif of prenyl-Cdc42 that drives its axonal localization.**
  
  *Ashley Loomis*, Biological Sciences (major), Spanish (minor) - Junior
  
  Dr. Jeffery Twiss, Department of Biological Sciences
  
  Mr. Matthew Zdradzinski, Department of Biological Sciences

Second Place-Tie
- **Suppression of telomerase activity and cytoprotective autophagy promotes apoptosis in glioblastoma cell lines**
  
  *Amanda Manea*, Mathematic (major), Biological Sciences (major) - Senior
  
  Dr. Swapan Ray, Pathology, Microbiology, and Immunology
  
  Dr. Nadia Al-Sammarraie, Pathology, Microbiology, and Immunology

Afternoon Poster Presentation: UG: Biology and Biomedical Sciences I

First Place
- **The Adhesion Protein Paxillin is Increased in Fibroblasts from Individuals with Down Syndrome**
  
  *Cayla Wolfe*, Biological Sciences (major), Interdisciplinary Studies (major) - Junior
  
  Dr. Kristy Welshhans, Department of Biological Sciences
  
  Ms. Katelyn Rygel, Department of Biological Sciences

Second Place
- **Investigating of Intestinal Diseases using Caenorhabditis elegans**
  
  *MaKenna DeYoung*, Biology (major) - Junior; USC Upstate
  
  Dr. Scott Tanner, Division of Natural Sciences and Engineering, USC Upstate

Afternoon Poster Presentation: UG: Biology and Environmental Sciences G

First Place
- **Studying the Transposition Mechanism of the mJing Miniature Inverted Repeat Transposable Element in Yeast**
  
  *Megan Collins*, Biology (major) - Junior; USC Aiken
  
  Dr. Nathan C. Hancock, Department of Biology and Geology, USC Aiken

Second Place
- **Color Sensitivity and Physiology of Vision in the Crustacean Daphnia dentifera vs Daphnia obtusa**
  
  *Charlotte Kile*, Biological Sciences (major), Spanish (minor) - Senior
  
  Mr. Matt Bruner, Department of Biological Sciences

Honorable Mention
- **Omnivory Effect on the Growth and Development of Invasive Agricultural Pest: Spodoptera exigua**
  
  *Lillian Self*, Biological Sciences (major), Geography (minor) - Senior
  
  Dr. Eric LoPresti, Department of Biological Sciences

Afternoon Poster Presentation: UG: Biology and Environmental Sciences H

First Place
- **University of South Carolina Solar Energy Study**
  
  *Logan Brodfuehrer*, Environmental Science (major), Theatre (minor) - Senior
  
  Dr. Conor Harrison, Department of Geography

Second Place
- **Variations of life history statistics over 500 generations of mutations**
  
  *Elena Renshaw*, Biological Sciences (major), Statistics (major) - Freshman
  
  Dr. Jeff Dudycha, Department of Biological Sciences
Afternoon Poster Presentation: UG: Biology and Environmental Sciences I

First Place
Analyzing histone deacetylase-1 (hdac1) and lysine (K)-specific demethylase 1A (kdm1a) mutant zebrafish
*Maddison McCall*, Molecular Biology (major) - Dual enrollment; USC Aiken
Dr. April DeLaurier, Department of Biology and Geology, USC Aiken

Second Place
Scientists as Relatable Humans: Impacts of Diversity and Reflection
*Peyton Smalls*, Environmental Science (major) - Senior
Dr. Katherine Ryker, School of Earth, Ocean, and Environment

Honorable Mention
Seasonal Analyzation of Trichodesmium Trends in the Sargasso Sea
*Megan Eubanks*, Marine Science (major), Women's and Gender Studies (minor) - Junior
Dr. Joshua Stone, Department of Biological Sciences
Mr. Alex Barth, Department of Biological Sciences

Afternoon Poster Presentation: UG: Biology and Environmental Sciences J

First Place
An assessment of juvenile Carcharhinus melanopterus morphological characteristics on San Cristobal Island
*Alyson Wisnionski*, Environmental Science (major), Marine Science (minor) - Senior
Dr. Erin Meyer-Gutbrod, School of Earth, Ocean, and Environment

Second Place-Tie
Spatial and Temporal Variability in Dissolved Inorganic Nitrogen within the Winyah Bay Watershed
*Victoria Ferri*, Marine Science (major) - Senior
Dr. Claudia Benitez-Nelson, School of Earth, Ocean, and Environment
Ms. Gwendolyn M. Hopper, Department of Chemistry and Biochemistry
Dr. Erik M. Smith, Baruch Institute of Marine and Coastal Sciences

Second Place-Tie
Identifying genes that effect mPing transposition in yeast
*Kaeleigh Seigler*, Biology (major) - Dual Enrollment; USC Aiken
Dr. C. Nathan Hancock, Department of Biology and Geology, USC Aiken

Honorable Mention
Investigating the influence of oyster reef biophysical and landscape features on key oyster predators
*Lillian Doll*, Environmental Science (major), Biological Science (minor) - Senior
Dr. Robert Dunn, Baruch Marine Field Laboratory, Baruch Marine Field Laboratory

Afternoon Poster Presentation: UG: Biology and Environmental Sciences K

First Place
Generation of Desmosomal Cadherin Mutants in Zebrafish
*Conner Entzminger*, Biology (major) - Dual enrollment; USC Aiken
Dr. April DeLaurier, Department of Biology and Geology, USC Aiken

Second Place
Spectral Sensitivity of Coastal Crustaceans: Color Vision in Porcelain Crabs?
*Rebecca LeBlanc*, Marine Science (major) - Senior
Dr. Daniel Speiser, Department of Biological Sciences

Afternoon Poster Presentation: UG: Chemistry, Physics, and Math C

First Place
Characterization of Glutathione-S-Transferase from Dermatophagoides pteronyssinus
*Robert Pokora*, Biochemistry and Molecular Biology (major), Spanish (major) - Senior
Dr. Maksymilian Chruszcz, Department of Chemistry and Biochemistry
Ms. Kriti Khatri, Department of Chemistry and Biochemistry
Second Place

**Bioavailability of Surface Sediment Phosphorus for the Proliferation of a Benthic Harmful Algal Bloom**

*Katelyn Carr*, Biochemistry and Molecular Biology (major) - Sophomore  
Dr. Timothy Shaw, Department of Chemistry and Biochemistry  
Ms. Cassidy Crandell, Department of Chemistry and Biochemistry

Honorable Mention

**Magic Square Type Sliding Game**

*Vigneswaran Madappan Chinnasami*, Associate in Science - Sophomore; USC Salkehatchie  
Dr. Wei-Kai Lai, Math, USC Salkehatchie

Afternoon Display Presentation: UG: Engineering and Computing BB

**First Place-Tie**

**Futuristic Fashion: An Amalgamation of 3D Printing, Robotics and Attire Design**  
*Rori Pumphrey*, Mechanical Engineering (major), Mathematics (minor) - Freshman  
*Alexandra Stuedli*, Biomedical Engineering (major), Business Administration (minor) - Senior  
*Ryan VanWyk*, Chemical Engineering (major) - Senior  
*Venkata Naga Anirudh Ouganti*, Computer Engineering (major), Statistics (major) - Senior  
*Alex Wojcik*, Mathematical (major), Electrical Engineering (minor) - Senior  
*Sai Durga Rithvik Oruganti*, Computer Engineering (major) - Senior  
Mrs. Sowmya Raghu, Department of Mechanical Engineering

**First Place-Tie**

**AvianAI: An Application of Computer Vision and Machine Learning for Wildlife Monitoring and Conservation**  
*Ryan VanWyk*, Chemical Engineering (major) - Senior  
*Sai Durga Rithvik Oruganti*, Computer Engineering (major) - Senior  
Mrs. Sowmya Raghu, Department of Mechanical Engineering

Afternoon Poster Presentation: UG: Engineering and Computing D

**First Place**

**Theia: Outdoor Millimeter-Wave Picocell Placement using Drone-based Surveying and Machine Learning**  
*Rahul Bulusu*, Computer Science (major), Mathematics (minor) - Senior  
Dr. Sanjib Sur, Department of Computer Science and Engineering

**Second Place**

**Engineering electrically conductive 3D printing inks based on the assembly of gelatin and 2D nanoparticles**  
*Adam Parker*, Biomedical Engineering (major) - Junior  
Dr. Nader Taheri-Qazvini, Department of Chemical Engineering

**Honorable Mention-Tie**

**Simulink Modeling of an Electric Airplane**  
*Korebami Adebajo*, Mechanical Engineering (major), Electrical Engineering (minor) - Sophomore  
Dr. Austin Downey, Department of Mechanical Engineering

**Honorable Mention-Tie**

**Is Explainable Artificial Intelligence (XAI) Useful to Engage ADHD Learners for Complicated Problem-Solving? A Digital Rubik's Cube Design Use Case**  
*Katelyn Wyandt*, Computer Science (major), Chinese Studies (minor) - Sophomore  
Dr. Dezhi Wu, Department of Integrated Information Technology

Afternoon Poster Presentation: UG: Engineering and Computing E

**First Place**

**Enhancement of the oxygen reduction reaction of epitaxial La0.8Sr0.2CoO3-δ thin films with surface decoration of binary oxides**  
*Jiwon Kim*, Mechanical Engineering (major) - Student Intern  
Prof. Dongkyu Lee, Department of Mechanical Engineering
Second Place

**Target and Performance Management Digitalization for XYZ Manufacturing**

*Manuela Cano*, Integrated Information Technology (major), French (minor) - Senior

*Matthew McGovern*, Integrated Information Technology (major) - Senior

*Phillip Parker*, Integrated Information Technology (major) - Senior

Dr. Keiona Middleton, Department of Integrated Information Technology

**Honorable Mention**

**The Triple M Dilemma: Implicit Biases’ Impact on Black Maternal Health**

*Nazharee Cloude*, Biological Sciences (major), African American Studies (minor) - Junior

Dr. Jamil Khan, Department of Mechanical Engineering

---

**Afternoon Poster Presentation: UG: Engineering and Computing F**

**First Place**

**Studying Bubble Dynamics in Flow Boiling Using Machine Learning**

*Jackson Brown*, Aerospace Engineering (major) - Senior

Dr. Chen Li, Department of Mechanical Engineering

Prof. Yan Tong, Department of Computer Science and Engineering

**Second Place**

**Maximum and Minimum Density of Rounded and Angular Soil Comparison**

*Valerie Sims*, Civil Engineering (major), Geological Sciences (minor) - Sophomore

Dr. Inthuorn Sasanakul, Department of Civil and Environmental Engineering

---

**Afternoon Poster Presentation: UG: Health Sciences G**

**First Place**

**Mistrust in Patient-Provider Relationships in South Carolina**

*Khushi Patel*, Public Health (major) - Junior

Dr. Robin Dawson, College of Nursing

Dr. Cynthia Corbett, College of Nursing

**Second Place**

**SC Tick Surveillance: Asian Longhorned Tick study and findings.**

*Abiodun Titilayomi*, Public Health (major), Business Administration (minor) - Junior

Dr. Melissa Nolan, Department of Epidemiology and Biostatistics

Ms. Lidia Gual-Gonzalez, Department of Epidemiology and Biostatistics

Dr. Kyndall Dye-Braumuller, Department of Epidemiology and Biostatistics

---

**Afternoon Poster Presentation: UG: Health Sciences H**

**First Place**

**Depressive Symptoms and Quality of Life in People with POTS: A Descriptive Feasibility Study**

*Sydney Reichardt*, Nursing - RN (major) - Junior

Dr. Cynthia Corbett, College of Nursing

**Second Place-Tie**

**The Impact of Built Environment Features on Physical Activity Levels in College Students**

*Catherine Neel*, Public Health (major) - Senior

Dr. Chih-Hsiang Yang, Department of Exercise Science

**Second Place-Tie**

**Covid-19 Vaccine Hesitancy Amongst College-aged Students**

*Ashlynn Sweat*, Nursing (major) - Senior; USC Aiken

Dr. Mary Gaffney, Nursing, USC Aiken

---

**Afternoon Poster Presentation: UG: Health Sciences I**

**First Place**

**Knowledge and Bias Towards Medico-legal Cases by Nurses and the Effect on the Quality of Care for Patients**

*Rose Ferguson*, Nursing - Generic (major) - Junior

Dr. Sara Donevant, College of Nursing
Second Place

**South Carolina ticks do not demonstrate classic ‘host specialization’ blood feeding patterns: Ticks collected from dogs presenting at animal humane shelters test positive for human blood meals**

*Laura Witt*, Public Health (major), Medical Anthropology (minor) - Sophomore

Dr. Melissa Nolan, Department of Epidemiology and Biostatistics

---

**Afternoon Poster Presentation: UG: Health Sciences J**

First Place

**Development of a Statewide Broadband Internet Access Survey**

*Faith Albertson*, Biochemistry and Molecular Biology (major), Health Promotion, Education, and Behavior (minor) - Junior

Dr. Nabil Natafgi, Department of Health Services Policy and Management

Second Place

**Portrayal of Different Body Sizes and Genders in Goal Frames used to Promote Food and Beverage Advertisements in Ghana**

*Muskaan Makkar*, Public Health (major), Economics (minor) - Sophomore

Ms. Morgan Boncyk, Department of Health Promotion, Education and Behavior

Dr. Krystal Rampalli, Department of Health Promotion, Education and Behavior

Ms. Marian Winters, Department of Health Promotion, Education and Behavior

Honorable Mention

**Socioeconomic Determinants of COVID-19 Vaccine Hesitancy**

*Brandon Mercado*, Biology (major), Psychology (minor) - Senior; USC Upstate

*Colleen Phan*, Biology (major) - Senior; USC Upstate

Dr. Ginny Webb, Division of Natural Sciences and Engineering, USC Upstate

Dr. Justin Travis, Department of Psychology, USC Upstate

---

**Afternoon Poster Presentation: UG: Health Sciences K**

First Place

**Mindful Walking Program Improves Mental Processing Speed and Accuracy Among Older Adults at-risk for Dementia**

*Madison Ward*, Public Health (major) - Sophomore

Dr. Chih-Hsiang Yang, Department of Exercise Science

Ms. Laura Phillips, Department of Exercise Science

Ms. Jenna Dzwierzynski, Department of Exercise Science

Second Place

**Identifying the determinants of pediatric vaccine uptake during the COVID-19 pandemic**

*Colleen Phan*, Biology (major), Sociology (minor) - Senior; USC Upstate

*Brandon Mercado*, Biology (major) - Senior; USC Upstate

Dr. Ginny Webb, Division of Natural Sciences and Engineering, USC Upstate

Dr. Justin Travis, Department of Psychology, USC Upstate

Honorable Mention

**The Association Between Parenting Stress and Mother-Child Physiological Linkage in Autism Spectrum Disorder (ASD)**

*Barret Smoker*, Public Health (major), Nutrition and Food Systems (minor) - Junior

Dr. Jessica Klusek, Department of Communication Sciences and Disorders

---

**Afternoon Poster Presentation: UG: Psychology and Neuroscience E**

First Place

**Pilot study of novel cue-signaling paradigm offers insights into the prefrontal cortex’s role in aversive learning**

*Isabella Dinu*, Biochemistry and Molecular Biology (major), Neuroscience (minor) - Senior

*Serena Parmar*, Neuroscience (major) - Sophomore

Dr. Peter Vento, Department of Psychology

Second Place

**Identification of Hypothalamic Neurons Involved in a Novel Circuit that Regulates Feeding Behavior**

*Victoria Glass*, Biological Sciences (major), Psychology (minor) - Junior

Dr. Claudia Grillo, Pharmacology, Physiology, and Neuroscience

Mr. Nicholas Maxwell, Pharmacology, Physiology, and Neuroscience
Honorable Mention

Advocacy in the communities of low-income students: exploring how socio-economic status affect youth’s mental health.

Xavier Pierce, Communication (major), Sociology (minor) - Senior; USC Aiken
Dr. Meeta Banerjee, Department of Psychology
Dr. Jason Munsell, Department of Communication, USC Aiken

Afternoon Poster Presentation: UG: Psychology and Neuroscience F

First Place

Working Memory During Chronic Stress in Aged Males Depends on Glucocorticoid and Mineralocorticoid Receptors

Neal Hammond, Biological Sciences (major), Neuroscience (major) - Junior
Caitlyn Murphy, Cardiovascular Technology (major) - Junior
Christian Ryan, Biochemistry and Molecular Biology (major) - Senior
Dr. Joseph McQuail, Pharmacology, Physiology, and Neuroscience
Ms. Haley Dufala, Pharmacology, Physiology, and Neuroscience
Mr. Tyler Cox, Pharmacology, Physiology, and Neuroscience

Second Place-Tie

Understanding the Impact of Positionality on Coding in a Qualitative Study of Black Men’s Preventative Healthcare

Harper Murphy, Psychology (major) - Senior
Dr. Guillermo Wippold, Department of Psychology
Mrs. Sarah Grace Frary, Department of Psychology

Second Place-Tie

The Feasibility of the Linking Exercise to Daily Stress (LEADS) Management Trial for Health Promotion in African American Families

Devin Weeks, Psychology (major) - Senior
Ian Palfreyman, Risk Management and Insurance (major), Psychology (minor) - Freshman
Dr. Dawn Wilson, Department of Psychology

Honorable Mention

Evaluating the DB-DOS tool in Studying Emotion Regulation in Early Autism Spectrum Disorder

Laney Hankins, Psychology (major), Economics (minor) - Senior
Dr. Sarah Edmunds, Department of Psychology
Ms. Katie Rowland, Department of Psychology

Afternoon Poster Presentation: UG: Psychology and Neuroscience G

First Place

Ketogenic Diet Differentially Affects Memory and Mitochondria in Aging Male and Female Rat Hippocampus

Karinne Cobb, Baccalaureus Artium et Scientiae (major) - Senior
Dr. Joseph McQuail, Pharmacology, Physiology, and Neuroscience
Mr. Tyler Cox, Pharmacology, Physiology, and Neuroscience
Mrs. Erin Gorman-Sandler, Pharmacology, Physiology, and Neuroscience

Second Place

Connecting Through Physical Activity

Bridget Scaglione, Exercise Science (major), Business Administration (minor) - Senior
Dr. Nicole Zarrett, Department of Psychology

Afternoon Poster Presentation: UG: Psychology and Neuroscience H

First Place

The Impact of Insulin Resistance on Cognition and Neurogenesis

DeWitt Coleman, Biological Sciences (major), Neuroscience (minor) - Junior
Dr. Claudia Grillo, Pharmacology, Physiology, and Neuroscience
Mr. Nicholas Maxwell, Pharmacology, Physiology, and Neuroscience
Dr. Lawrence Reagan, Pharmacology, Physiology, and Neuroscience

Second Place

Alterations in Cholinergic Innervation and GABAergic Interneurons in the Amygdala in a Mouse Model of Fragile X Syndrome

Hannah Leili, Public Health (major), Spanish (minor) - Senior
Dr. David Mott, Pharmacology, Physiology, and Neuroscience
Honorable Mention
Correlates of Communication with God and Relationship with God, racial socialization practices, and racial discrimination among African American adolescents
Pearl Ayiku, Psychology (major) - Senior
Dr. Pamela Martin, Department of Psychology

Afternoon Poster Presentation: UG: Psychology and Neuroscience I
First Place
Social Smiling as a Potential Marker for ASD in High-Risk Infants of Age 3- and 4-Months
Waliya Waheed, Psychology (major) - Junior
Rijul Bhardwaj, Neuroscience (major), Business Administration (minor) - Sophomore
Dr. Jessica Bradshaw, Department of Psychology
Second Place-Tie
A study of long-lasting avoidance induced by chemogenetic stimulation of the RMTg
Moira Lopez de Leon, Psychology (major), Neuroscience (minor) - Junior
Jacob Watson, Psychology (major) - Graduate Student
Dr. Peter Vento, Department of Psychology
Second Place-Tie
The Relationship Between Genetic Markers: Physiological Activity & Anxiety in Female Adults with the FMR1 Permutation
Nhi Ngo, Neuroscience (major), Media Arts (minor) - Junior
Dr. Jane Roberts, Department of Psychology
Ms. Erin Hunt, Department of Psychology

Afternoon Poster Presentation: UG: Psychology and Neuroscience J
First Place
Investigating the Molecular Effects of Valproic Acid in iPSC-Derived Neurons
Brian Yoon, Neuroscience (major), Spanish (minor) - Sophomore
Dr. Calvin Leung, Brown University
Second Place
Brains in Pain: Migraine, Depression, and Amygdala Gray Matter Volumes – ABC at UofSC
Jade Hannan, Neuroscience (major), French (major) - Junior
Dr. Roger Newman-Norlund, Department of Psychology
Mrs. Sarah Newman-Norlund, Department of Communication Sciences and Disorders
Honorable Mention
Determining the effect of Fragile X Syndrome on the estrous cycle of Fmr1 mutant mice
Alaina Mullaly, Neuroscience (major), Biology (minor), Biology - Junior
Dr. Fiona Hollis, Pharmacology, Physiology, and Neuroscience
Ms. Alexia Crockett, Pharmacology, Physiology, and Neuroscience

Afternoon Poster Presentation: UG: Experiential Learning and GLD J
First Place
The Importance of Mentorship Programs
Rohan Nath, Cardiovascular Technology (major) - Junior
Second Place
Izzy’s Impact
Savannah Robinson, Associate in Science - Sophomore; USC Lancaster
Mr. Thomas Izzard, Business, USC Lancaster
Honorable Mention-Tie
Leading the Way Through the First Year Experience: Creating a Sense of Community for First Year Students as a Resident Mentor
Aubrey Houle, Dance (major), Biology (minor) - Senior
Honorable Mention-Tie
Becoming an Effective Leader
Hannah Johnson, Finance (major), Marketing (major) - Senior
Afternoon Poster Presentation: UG: Experiential Learning and GLD K
First Place
My Experiences as a Student Employee at the Office of Substance Abuse Prevention and Education
Mackenzie Farmer, Public Health (major), Interdisciplinary Studies (major) - Senior
Second Place
Disability Education and Specialized Recruitment Training for University Ambassadors
Baileigh Sizemore, Public Health (major), Business Administration (minor) - Senior
Mr. Anthony Plotner, College of Education
Honorable Mention
Passion for Leadership
Justin Walker, Operations and Supply Chain (major), Sport and Entertainment Management (minor) - Senior

Afternoon Poster Presentation: UG: Experiential Learning and GLD L
First Place
From Orientation to the OR
Victoria Holliday, Associate in Science - Sophomore; USC Lancaster
Ms. Zoe Byrd, Academic & Student Affairs, USC Lancaster
Second Place
Advancing the Arts in Columbia, South Carolina
Olivia Hartman, History (major) - Senior
Mr. Rico Reed, National Resource Center
Honorable Mention
The Core of a Successful Team is Rooted with the Values of DEI at the Forefront.
Olivia Coppola, Criminology and Criminal Justice (major), Social Work (minor) - Senior

Afternoon Poster Presentation: UG: Experiential Learning and GLD M
First Place
GLD in Professional and Civic Engagement
Lily Cohen, Dance (major), Biological Science (minor) - Senior
Second Place
The Leadership Learning Curve of the Real-World that University Does Not Prepare Engineers for Due to Covid-19 Virtual Education
Jesse Nguyen, Mechanical Engineering (major) - Senior
Prof. Rico Reed, National Resource Center for FYE and Students in Transition

Afternoon Poster Presentation: UG: Experiential Learning and GLD N
First Place
K-12 Outreach and Education as a Means of Building a More Sustainable Future
Ann Jacob Woodson, Marine Science (major) - Senior
Prof. Rico Reed, National Resource Center
Second Place
Carolina Closet
Jenna Wilson, Middle Level Education (major) - Senior
Honorable Mention
Building My Case
Kailik Faulk, Criminology and Criminal Justice (major) - Senior

Afternoon Poster Presentation: UG: Experiential Learning and GLD O
First Place
Value of Collaboration in the Oral Public Health Sector
Merideth Tallon, Public Health (major), Biological Science (minor) - Senior
Ms. Sarah Matthews, Center for Integrative and Experiential Learning
Second Place
A Community In Need & The Army Behind It: COVID-19 Relief Missions
Daniel Walters, Political Science (major) - Senior
Honorable Mention

**Leading and Being Led: My time as an Editor for The Daily Gamecock**
Audrey Elsberry, Journalism (major), Retailing (minor) - Senior

Afternoon Poster Presentation: UG: Experiential Learning and GLD P

**First Place**

**Becoming an Effective Leader Through my University 101 Peer Leader Experience**
Nicole Goldberg, Exercise Science (major) - Senior

**Second Place**

**Effective Leadership: Discovering the Balance between Peer and Leader**
Gabi Bertozzi, Sport and Entertainment Management (major), Mass Communications (minor) - Senior
Dr. Denise Wellman, Center for Integrative and Experiential Learning

**Honorable Mention-Tie**

**What's your lollipop?**
Yasmen Balogun, Mathematic (major), Health Promotion, Education, and Behavior (minor) - Senior

**Honorable Mention-Tie**

**Zeroed in on Zero-Waste**
Abby Vascsinec, Marketing (major), Finance (major) - Senior

Afternoon Poster Presentation: UG: Experiential Learning and GLD Q

**First Place**

**Project Management in USC’s Housing Construction and Renovations Department**
John Jones, Electrical Engineering (major) - Senior
Mrs. Lauren Bolser, Housing

**Second Place**

**Foundation Fellow**
Carleigh Solomon, Sport and Entertainment Management (major), Interdisciplinary Studies (major) - Senior
Mr. Del Wilber, Purdue University Daniels School of Business, Mentor

**Honorable Mention-Tie**

**Building the Future of Phi Chi Theta**
Mackenzee Balzer, Finance (major), Operations and Supply Chain (major) - Senior

**Honorable Mention-Tie**

**Conservation, Sustainability, and Ecolodges in the Virgin Islands**
Julianne McHenry, Marine Science (major), Hotel, Restaurant, and Tourism Management (minor) - Senior

Afternoon Poster Presentation: UG: CIEL/GLD - Cultural Diversity C

**First Place**

**Representation Matters**
Ethena Lighty, Information Science (major), General Education (minor) - Senior

**Second Place**

**What We Don’t See: the Physical, the Mental, and the Global**
Bethany Reeve, Global Studies (major), Chinese Studies (minor) - Senior

**Honorable Mention**

**Strategic Storytelling — The Key to Inclusivity**
Maria Balthazar, Public Relations (major), Women's and Gender Studies (minor) - Senior
Ms. Gina Spence, Center for Integrative and Experiential Learning

Afternoon Poster Presentation: UG: CIEL/GLD - Cultural Diversity D

**First Place**

**Kylie Bukow’s Global Learning GLD Portfolio**
Kylie Bukow, Mass Communications (major) - Senior

**Second Place**

**From Learning Italian to Teaching English**
Lauren Taylor, International Business (major), Finance (major) - Senior
Prof. Keah Tandon, University 101 Programs
Honorable Mention

The Dark Side of the Mind
Alejandra Ramirez, International Studies (major), Criminal and Justice (minor) - Junior
Mrs. Megan Colascione, Student Life

Afternoon Poster Presentation: UG: CIEL/GLD - Cultural Diversity E

First Place
Global Learning: A Journey of Independence and Self-Investigation in Hong Kong
Ivy Lu, International Business (major), Finance (major) - Senior

Second Place
Sports Medicine, History, and Culture Down Under
Sydney Brewster, Exercise Science (major) - Senior
Ms. Alexis Michalos, Housing

Afternoon Poster Presentation: UG: CIEL/GLD - Education B

First Place-Tie
Learning to Lead
Emily Cowan, Exercise Science (major), Psychology (minor) - Senior

First Place-Tie
University 101 Peer Leading Experience
Sarah Steinmetz, Finance (major) - Senior

Second Place
Community & Interdependency
Josie Galasso, Criminology and Criminal Justice (major), Women's and Gender Studies (major) - Senior
Prof. Megan Colascione, Student Life

Honorable Mention
Effective Classroom Management: Fair Is Not Equal
Caroline Shelley, Middle Level Education (major) - Senior

Afternoon Poster Presentation: UG: CIEL/GLD - Entrepreneurial C

First Place
The relationship of creativity and data in marketing strategy development
Victoria Borowsky, Marketing (major), Management (major) - Senior

Second Place
J.P Morgan Chase & Co. Internship
Eddy Perez, Finance (major), Spanish (minor) - Senior

Honorable Mention
Flexibility in Management
Mardy Kramer, Mass Communications (major) - Senior
Dr. Ambra Hiott, Leadership and Service Center

Afternoon Poster Presentation: UG: CIEL/GLD - Entrepreneurial D

First Place
My Biomedical Engineering Internship
Sarah Sylvester, Biomedical Engineering (major) - Senior

Second Place
Women in Business Harvard IFC Conference
Sydney Marcuzzi, Marketing (major), Management (major) - Senior
Prof. Ambra Hiott, Leadership and Service Center

Afternoon Poster Presentation: UG: CIEL/GLD - Policy and Governance B

First Place
The Suppression of the Black Vote through Redistricting and Gerrymandering in South Carolina
Courtney McClain, Broadcast Journalism (major), Political Science (minor) - Senior
Second Place

Social Work and Disability Rights
Isabelle Borduas, Social Work (major), Leadership Studies (minor) - Senior

Honorable Mention-Tie

Understanding What It Means To Serve
Dominique Praylow, Political Science (major) - Senior

Honorable Mention-Tie

Collaboration for Success
Riley Rodgers, Political Science (major), Psychology (minor) - Senior

Afternoon Poster Presentation: UG: CIEL/GLD - Wellness and Health F

First Place

Intervention and Stigma Through The Lens of Mental Health by Kaitlyn Speiser
Kaitlyn Speiser, Psychology (major), Advertising and Public Relations (minor) - Senior
Dr. Matthew Childs, Center for Integrative and Experiential Learning

Second Place

Changing Lives in Guatemala
Sarah Mitchell, Biological Sciences (major), Psychology (minor) - Senior

Honorable Mention-Tie

Pre-Veterinary Medicine: The Road Less Traveled
Catherine DeSantis, Biological Sciences (major), Medical Anthropology (Minor) - Senior

Honorable Mention-Tie

Invoking Change in Our Healthcare System
Sarah Teal, Public Health (major) - Senior

Afternoon Poster Presentation: UG: CIEL/GLD - Wellness and Health G

First Place-Tie

Innovative Learning at Innovative Smiles
Mikayla Carty, Biological Sciences (major), Art Studio (minor) - Senior

First Place-Tie

From Classroom to Clinic: How My Role as a Peer Educator Inspired My Future Career in Healthcare
Zainab Nathani, Biological Sciences (major), Psychology (major) - Senior
Mrs. Megan Colascione, Student Life

Second Place

Research in Systems Mechanobiology
Rateesh Hegneshwar, Biomedical Engineering (major) - Senior
Dr. Jake Potter, Clemson University, Ph.D. in Systems Mechanobiology
Prof. William Richardson, Clemson University, Systems Mechanobiology

Afternoon Poster Presentation: UG: CIEL/GLD - Wellness and Health H

First Place

Promoting the Health of the Underserved- Creating an Item Closet at Prisma Health to Provide Homeless Patients with Necessities Upon Discharge
Baylee Marin, Biological Sciences (major), Interdisciplinary Studies (major) - Senior

Second Place

Extending Healthcare to Global Communities
Hannah Lutz, Nursing - RN (major) - Senior
Dr. Melissa Reitmeier, College of Social Work

Honorable Mention-Tie

Organization of Running a Mass Vaccination Facility
Madeleine Mikes, Public Health (major) - Senior

Honorable Mention-Tie

A Look Into Rural Guatemala
Lauren Williamson, Exercise Science (major), Biological Sciences (minor) – Senior
Isha Patel, Exercise Science (major), Interdisciplinary Studies (major) – Senior