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2026 Undergraduate Research Awardees Morning Presentations

Morning UGR: Arts Humanities and Social Sciences A

First Place

Comparison of TOPS and PMC Profiles in ROTC Cadets

Jordan Motte, Applied Sport Psychology and Counseling (major) – Freshman

Dr. David Stodden, Department of Educational and Developmental Sciences – Columbia

Second Place

AI and Academic Integrity: A Review of University Policies

Madeline Lieberman, Sociology (major) – Sophomore

Dr. Mathieu Deflem, Department of Sociology – Columbia

Morning UGR: Arts Humanities and Social Sciences B

First Place

Peeking Beneath the Rust: Re-evaluating USC's History Through Metal Artifact Analysis

Brea Stone, Baccalaureus Artium et Scientiae (major) – Sophomore

Hudson Davis, Computer Science (major) – Senior

Dr. Kelly Goldberg, Department of Anthropology – Columbia

Second Place

Russian-English Bilingual Processing of Cognates in Written and Oral Modes

Sarah John, Neuroscience (major) – Senior

Dr. Mila Tasseva-Kurktchieva, Linguistics Program – Columbia

Morning UGR: Arts Humanities and Social Sciences C

First Place

Tastes of Belonging: Food, Language, and Cultural Continuity Among Second-Generation Russophone Immigrants

Madeline Fyock, Languages, Literatures and Cultures – Russian (major) – Senior

Dr. Olesya Kisselev, Department of Languages, Literatures, and Cultures – Columbia

Second Place

Evaluating How Mexican News Outlets Uphold The Principles of Journalism

Griffin Gacsy, Journalism (major) – Freshman

Prof. Andy Burns, School of Journalism and Mass Communications – Columbia

Morning UGR: Biomedical Sciences A

First Place

Early Life Exposure to Antibiotics and Risk for Early-Onset Colorectal Cancer

Shyam Ganesh Babu, Biological Sciences (major) – Senior

Dr. Marj Pena, Department of Biological Sciences – Columbia

Second Place

U2OS Stress Granule Liquid Phase Separation and Rheological Properties of Cytoplasm

Bryan Monnell, Biological Sciences (major) – Junior

Ethan Wandel, Biological Sciences (major) – Junior

Dr. Michael Shtutman, Department of Drug Discovery & Biomedical Sciences – Columbia

Morning UGR: Biomedical Sciences B

First Place

Impact of social stress and stress context on oxycodone preference and neural signaling in females

Taylor Childress, Neuroscience (major) – Senior

Dr. Susan Wood, Pharmacology, Physiology, and Neuroscience – USC School of Medicine, Columbia

Second Place

Hypertension-like stretch induces brain endothelial damage

Sriya Pallapothu, Biological Sciences (major) – Senior

Dr. Camilla Wenceslau, Cell Biology and Anatomy – USC School of Medicine, Columbia

Morning UGR: Biomedical Sciences C

First Place

Exploring the Oxidative Modification of Lysine by Urate

Anna Nesmelova, Biochemistry and Molecular Biology (major) – Senior

Dr. Norma Frizzell, Pharmacology, Physiology, and Neuroscience – USC School of Medicine, Columbia

Second Place

Role of PKR in Regulating the Integrated Stress Response (ISR) During Endoplasmic Reticulum (ER) Stress

Sanjana Parise, Public Health (major) – Senior

Dr. Rekha Patel, Department of Biological Sciences – Columbia

Morning UGR: Biomedical Sciences D

First Place

Orexin Signaling as a Requisite Mediator for LPS-Induced TLR4 Translocation in Basal Forebrain Cholinergic Neurons

Yair Caudillo, Neuroscience (major) – Junior

Dr. James Fadel, Pharmacology, Physiology, and Neuroscience – USC School of Medicine, Columbia

Second Place

A 'Vibe Coding' Approach to Automating the Drug Screening Pipeline

Grace Zhang, Neuroscience (major) – Freshman

Dr. Mengqian Chen, Department of Drug Discovery & Biomedical Sciences – Columbia

Morning UGR: Biomedical Sciences E

First Place

Molecular and behavioral changes in adult mice with astrocyte-specific Lis1 Knockout

Marina Kondrikova, Neuroscience (major) – Junior

Lindsey Samuel, Neuroscience (major) – Freshman

Dr. Deanna Smith, Department of Biological Sciences – Columbia

Second Place

Fluorescence Polarization Analysis of Abbapolin and Kinase Domain Inhibitor Induced Conformational Changes of Polo-like Kinase 1

Olivia Keys, Biochemistry and Molecular Biology (major) – Senior

Dr. Michael Wyatt, Department of Drug Discovery & Biomedical Sciences – Columbia

Morning UGR: Biomedical Sciences F

First Place

Dysregulation of D- and L-Serine Metabolism During Cognitive Aging

Michael Pitre, Baccalaureus Artium et Scientiae (major) – Junior

Dr. Joseph McQuail, Pharmacology, Physiology, & Neuroscience – USC School of Medicine, Columbia

Second Place

Impact of Lipids on Salmonella enterica serovar Typhimurium IR715 Growth

Andrew Pana, Biological Sciences (major) – Senior

Dr. Melissa Ellermann, Department of Biological Sciences – Columbia

Morning UGR: Chemistry, Physics and Math A

First Place

Alternative Pulsed-Potential Electrodeposition of RuO₂ Nanoparticles

Mustafa Alameri, Biochemistry and Molecular Biology (major) – Sophomore

Dr. Amir Hosseini, Department of Chemistry and Biochemistry – Columbia

Second Place

Functional Characterization of Iron-Sulfur Cluster Binding in the E. coli Ferric Uptake Regulator (Fur)

Samantha Kohlmann, Biochemistry and Molecular Biology (major) – Senior

Dr. F. Wayne Outten, Department of Chemistry and Biochemistry – Columbia

Morning UGR: Chemistry, Physics and Math B

First Place

Electrochemical Investigation of Virulence Metabolism in Pseudomonas aeruginosa in Polymicrobial Communities

Abbie Davis, Biochemistry and Molecular Biology (major) – Senior

Dr. Olja Simoska, Department of Chemistry and Biochemistry – Columbia

Second Place

Effect of Experimental Reaction Conditions On Dimerization Rate of Nickel(II) Salen Electrocatalyst

Finleigh Callahan, Chemistry (major) – Sophomore

Dr. Seyyedamirhossein Hosseini, Department of Chemistry and Biochemistry – Columbia

Morning UGR: Chemistry, Physics and Math C

First Place

Mechanistic Analysis of the Electrochemical Reduction of o-Nitrobenzaldehyde at Strongly Reducing Potentials

Meredith Stewart, Biochemistry and Molecular Biology (major) – Sophomore

Dr. Seyyedamirhossein Hosseini, Department of Chemistry and Biochemistry – Columbia

Second Place

Uncertainty Quantification of the Basic Reproduction Number (R₀) in a Modified SEIR Model Using Sobol Sensitivity Analysis

Anish Srinivasan, Mathematics (major) – Senior

Dr. Paula Vasquez, Department of Mathematics – Columbia

Morning UGR: Engineering and Computing A

First Place

Stabilized Earth Masonry as a Sustainable and Resilient Building Material

Nathaniel Auten, Civil Engineering (major) – Senior

Dr. Fabio Matta, Department of Civil and Environmental Engineering – Columbia

Second Place

Understanding Thermoelectric Behavior of Substrate-Free Oxide Thin Films

Avari Suber, Mechanical Engineering (major) – Senior

Dr. Dongkyu Lee, Department of Mechanical Engineering – Columbia

Morning UGR: Engineering and Computing B

First Place

RVTI Derailment Simulations Based on Incomplete Field Data

Emerson Mitchell, Civil Engineering (major) – Junior

Dr. Dimitris Rizos, Department of Civil and Environmental Engineering – Columbia

Second Place

VeriRouter – UAV Secure Routing

Roman Dumych, Computer Science (major) – Junior

Dr. Qingli Zeng, Division of Mathematics and Computer Science – Upstate

Morning UGR: Engineering and Computing C

First Place

Flywheel-Mechanism for Human-Mounted Fixed-Wing UAV Launch Platform

Andersen Spina, Aerospace Engineering (major) – Sophomore

Dr. Junsoo Lee, Department of Mechanical Engineering – Columbia

Second Place

Myocardial stiffness properties are improved in heart failure with preserved ejection fraction (HFpEF) in pigs by a regular exercise regimen

Francesco Yigamawano, Biomedical Engineering (major) – Senior

Dr. Tarek Shazly, Department of Biomedical Engineering – Columbia

Morning UGR: Environmental Sciences A

First Place

Understanding migratory behavior of the Pacific Coast Feeding Group gray whales through barnacle morphology and body condition

Elizabeth Calhoun, Environmental Science (major) – Junior

Dr. Erin Meyer-Gutbrod, Earth, Ocean, and Environment, School of – Columbia

Second Place (tie)

Evolution of Anthocyanin Pigments in *M. guttatus* Across Soil Types

Marissa Johnson, Biological Sciences (major) – Junior

Dr. Katherine Toll, Department of Biological Sciences – Columbia

Second Place (tie)

Characterization of Pond Functioning on Spring Island

Chloe Mullinax, Biology (major) – Junior

Dr. Tye Pettay, Department of Natural Sciences – Beaufort

Morning UGR: Environmental Sciences B

First Place (tie)

Four decades of change in the copepod community of North Inlet Estuary, SC

Eve Smerczynski, Marine Science (major) – Senior

Dr. Joshua Stone, Department of Biological Sciences – Columbia

First Place (tie)

Linking Soil Health to Soil faunal Diversity Across South Carolina Farms

Lemon Washer, Environmental Science (major) – Sophomore

Dr. Andi Jilling, Department of Environmental Health Sciences – Columbia

Morning UGR: Environmental Sciences C

First Place

Assessing Herpetofaunal Diversity in an Urban Habitat Fragment in Columbia, SC

Amelia Predmore, International Studies (major) – Senior

Luke Pinter, Biological Sciences (major) – Junior

Dr. Mickey Parker, Department of Biological Sciences – Columbia

Second Place

Linking Maternal Diet to Offspring Lipid Stores: Transgenerational Effects of Food Environment in *Daphnia*

Andrew Lamendola, Exercise Science (major) – Junior

Dr. Jeff Dudycha, Department of Biological Sciences – Columbia

Morning UGR: Environmental Sciences D

First Place

Salinity Dynamics During Marine Heatwaves in the Northwest Atlantic: The Role of Gulf Stream Eddies

Natalie Stamper, Marine Science (major) – Senior

Dr. Subrahmanyam Bulusu, Earth, Ocean, and Environment, School of – Columbia

Second Place

Morphological Variation in *Euphydryas gillettii* Butterflies Across Time and Space

Jenna Rechsteiner, Environmental Science (major) – Senior

Dr. Carol Boggs, Department of Biological Sciences – Columbia

Morning UGR: Health Sciences A

First Place

Bridging the Digital Divide: County-level Telecommunication Capacity and Prenatal Telehealth Uptake in South Carolina, 2018-2023

Rithi Ramamurthy, Baccalaureus Artium et Scientiae (major) – Sophomore

Dr. Peiyin Hung, Department of Health Services Policy and Management – Columbia

Second Place

Articulatory Precision Links Inferior Frontal Cortical Thickness and Cognitive Performance in Healthy Adult Women

Neekan Nasiri, Neuroscience (major) – Junior

Dr. William Matchin, Department of Communication Sciences and Disorders – Columbia

Morning UGR: Health Sciences B

First Place

Comparing Academic Stress and Perceived Stress Among Nursing Students of Various Education Levels

Adrianna Staniszewski, Nursing – Generic (major) – Junior

Dr. Michael Wirth, Department of Epidemiology and Biostatistics – Columbia

Second Place

Social resources as protective factors against alcohol misuse among adults in the US, 2024

Emily Webb, Biological Sciences (major) – Senior

Dr. Jennifer Fillo, Department of Health Promotion, Education and Behavior – Columbia

Morning UGR: Health Sciences C

First Place

Resilience as a Moderating Factor of Adverse Health Outcomes after Childhood Adversity in Military Populations

Emily Henderson, Baccalaureus Artium et Scientiae (major) – Junior

Dr. Jennifer Fillo, Department of Health Promotion, Education and Behavior – Columbia

Second Place

Perceived Competence and its Influence on Pain and Activity

Zoe May, Exercise Science (major) – Junior

Dr. Christine Pellegrini, Department of Exercise Science – Columbia

Morning UGR: Health Sciences D

First Place

Informed Consent in Childbirth: A Global Scoping Review of Episiotomy Practices and The Gaps in U.S. Perinatal Care

Rachel Gulczinski, Biological Sciences (major) – Senior

Dr. Curisa Tucker, Department of Biobehavioral Health & Nursing Science – Columbia

Second Place

Mitochondrial Contributions to Accelerated Brain Aging: Associations with Cardiovascular Risk

Kendall Brown, Biological Sciences (major) – Junior
Dr. Nicholas Riccardi, Department of Communication Sciences and Disorders – Columbia

Morning UGR: Health Sciences E

First Place

Cortical Responses to Vcoded Naturalistic Speech in Simulated Cochlear Implant Listening

Katherine Reed, Neuroscience (major) – Sophomore
Dr. Meisam Arjmandi, Department of Communication Sciences and Disorders – Columbia

Second Place

Interacting Effects of Race and Lesion Volume on Aphasia Severity

Chitra Nanda, Public Health (major) – Senior
Dr. Kristinsson Sigfus, Department of Communication Sciences and Disorders – Columbia

Morning UGR: Psychology and Neuroscience A

First Place

The Impact of Anxiety on Executive Function in College Students

Julia Wood, Public Health (major) – Senior
Dr. Xiaoxue Fu, Department of Psychology – Columbia

Second Place

The Impact of Emotional Authenticity on Facial Fixation Patterns: An Eye-Tracking Study

Sifat Sawhney, Biological Sciences (major) – Senior
Dr. Svetlana Shinkareva, Department of Psychology – Columbia

Morning UGR: Psychology and Neuroscience B

First Place

Grit as a Potential Moderator of the Association Between School Support and Internalizing Symptoms among College Students

Lilly Leonard, Psychology (major) – Senior
Dr. Kate Flory, Department of Psychology – Columbia

Second Place

Examining Racial Ethnic Identity in Latinx College Students and Its Protective Role in Depressive Symptoms

Arissa Katemba, Psychology (major) – Senior
Dr. Meeta Banerjee, Department of Psychology – Columbia

Morning UGR: Psychology and Neuroscience C

First Place

Perception and Mental Imagery: A Comparative Study of Physiological Responses

Ashley Anderson, Psychology (major) – Senior
Prof. Svetlana Shinkareva, Department of Psychology – Columbia

Second Place

Auditory Hypersensitivity, Habituation, and Behavioral Dysregulation in Autism Spectrum Disorder

Jake Arcement, Neuroscience (major) – Senior
Dr. Caitlin Hudac, Department of Psychology – Columbia

Morning UGR: Psychology and Neuroscience D

First Place

Longitudinal Language Development Differences Between Children with FXpm and their NT Peers

Allison Catapano, Neuroscience (major) – Sophomore
Neha Vallabhaneni, Neuroscience (major) – Junior
Dr. Jane Roberts, Department of Psychology – Columbia

Second Place

Associations of Perceived Stress, Adaptive, and Maladaptive Coping on Quality of Family Mealtime in African American Adolescents and their Parents

Madeline McGuff, Psychology (major) – Senior

Amani Eagles, Psychology (major) – Senior

Dr. Dawn Wilson, Department of Psychology – Columbia

Morning UGR: Psychology and Neuroscience E

First Place

Early RSA Reactivity as a Predictor of ADHD Symptoms in Children with Fragile X Syndrome

Sarah Chrif, Neuroscience (major) – Junior

Dr. Jane Roberts, Department of Psychology – Columbia

Second Place

Hand–Eye Coordination During Toy Play in Infants at Elevated Likelihood for Autism

Taylor DiFondi, Biological Sciences (major) – Junior

Veena Mangallampalli, Public Health (major) – Sophomore

Dr. Jessica Bradshaw, Department of Psychology – Columbia

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2026 Undergraduate Research Awardees Afternoon Presentations

Afternoon UGR: Arts Humanities and Social Sciences AA

First Place

The effects of instruction on the phonetic errors made by native English-speaking learners of Spanish

Mary Carney, International Business (major) – Senior

Dr. David Eric Holt, Linguistics Program – Columbia

Second Place

Physical and Emotional Experiences After Abortion in the Post-Dobbs US Southeast

Zoey Bartholomew, Biomedical Engineering (major) – Junior

Ella Johnson, Economics (major) – Senior

Dr. Cara Delay, Department of Women's and Gender Studies – Columbia

Afternoon UGR: Arts Humanities and Social Sciences BB

First Place

Cali Sober: Predicting On-Premises THC Beverage Demand Through Existing Consumption Patterns

Isabelle Bennett, Statistics (major) – Senior

Dr. Scott Taylor Jr., School of Hospitality and Tourism Management – Columbia

Second Place

Animating Protein Structures: Character-Driven Science Narratives

Sergio Gonzalez-Eulogio, Associate in Arts (major) – Sophomore

Dr. Sahar Aghasafari, Department of Humanities – Lancaster

Afternoon UGR: Biomedical Sciences AA

First Place

Comparative Effects of Pharmacologic CDK8/19 Inhibition and Genetic Deletion on EO771 Tumor Growth In Vivo

Sanjana Tripuraneni, Baccalaureus Artium et Scientiae (major) – Sophomore

Dr. Mengqian Chen, Department of Drug Discovery & Biomedical Sciences – Columbia

Second Place

Investigating the Impact of Ethanol on Lung Pathology in High-Fat Diet-Induced MASLD

Pranesh Rajesh Kannan, Neuroscience (major) - Sophomore

Dr. Kiesha Wilson, Pathology, Microbiology, and Immunology – USC School of Medicine, Columbia

Afternoon UGR: Biomedical Sciences BB

First Place

Shifting Identity: Adolescent Light Cycle Disruption Alters Neurotransmitter Phenotype in Medial Amygdala Circuits

David Mann, Neuroscience (major) – Sophomore

Dr. Alessandra Porcu, Department of Drug Discovery & Biomedical Sciences – Columbia

Second Place

Targeting axon intrinsic loop restricting nerve regeneration

Cailyn Tosadori, Biological Sciences (major) - Junior

Dr. Lauren Vaughn, Department of Biological Sciences – Columbia

Afternoon UGR: Biomedical Sciences CC

First Place

Individual Differences in Kynurenic Acid After Fear Extinction and Cholinergic Inhibition

Caitlyn White, Neuroscience (major) – Senior

Dr. Ana Pocivavsek, Pharmacology, Physiology, and Neuroscience – USC School of Medicine, Columbia

Second Place

Modulating Resistance to Paclitaxel Through Transcriptional Kinase Inhibition in Breast Cancers

Katelyn Fishel, Pharmaceutical Sciences (major) – Senior

Dr. Mengqian Chen, Department of Drug Discovery & Biomedical Sciences – Columbia

Afternoon UGR: Biomedical Sciences DD

First Place

Nicotinamide alters postpartum hippocampal mitochondrial protein expression and behavior in a model of gestational stress

Hannah Brennen, Public Health (major) – Senior

Dr. Fiona Hollis, Pharmacology, Physiology, and Neuroscience – USC School of Medicine, Columbia

Second Place

Molecular mechanisms in dystonia, a movement disorder caused by mutations in the PRKRA gene, reveal overactive integrated stress response (ISR) pathway

Ineya Ramadoss Muthuselvam, Cardiovascular Technology (major) – Freshman

Dr. Rekha Patel, Department of Biological Sciences – Columbia

Afternoon UGR: Biomedical Sciences EE

First Place

Overexpression of Adipose Tissue Androgen Receptor High-fat Diet Fed Male Mice

Koen Reiter, Public Health (major) – Sophomore

Dr. Reilly Enos, Pathology, Microbiology, and Immunology – USC School of Medicine, Columbia

Second Place

Dysregulation of Ribosomes and Focal Adhesions May Contribute to Altered Motility of Down Syndrome Fibroblasts

Jordana Freedman, Neuroscience (major) – Sophomore

Dr. Kristy Welshhans, Department of Biological Sciences – Columbia

Afternoon UGR: Chemistry Physics and Math AA

First Place

Silver-Silver Chloride Reference Electrode: Construction and Performance in Nitrogen-Containing Organic Solvents

Abigail Koczaja, Biochemistry and Molecular Biology (major) – Junior

Prof. Seyyedamirhossein Hosseini, Department of Chemistry and Biochemistry – Columbia

Second Place

Electronic State and Selectivity Relationships of a New Class of Hybrid Catalysts on Metal Oxide Supports

Alexia Bradbury, Biochemistry and Molecular Biology (major) – Senior
Dr. Aaron Vannucci, Department of Chemistry and Biochemistry – Columbia

Afternoon UGR: Chemistry Physics and Math BB

First Place

Optimizing Surfactant Concentrations in Solutions of Polystyrene Microspheres for Fluidic Systems

Julia Trask, Biochemistry and Molecular Biology (major) – Sophomore
Mrs. Whitney Schuler, Department of Chemistry and Biochemistry – Columbia

Second Place

Development of Antimicrobial Peptide Polymers to Combat Drug-Resistant Pathogens with Reduced Toxicity

Ria Kothari, Biochemistry and Molecular Biology (major) – Junior
Dr. Chuanbing Tang, Department of Chemistry and Biochemistry – Columbia

Afternoon UGR: Chemistry Physics and Math CC

First Place

Investigating the role of monothiol glutaredoxin binding protein GrxD in coordinating crosstalk between Iron-Sulfur clusters biogenesis and morphology.

Daniel Haigler, Biomedical Engineering (major) – Sophomore
Dr. Wayne Outten, Department of Chemistry and Biochemistry – Columbia

Second Place

Collection of Nitrogen Oxides (NO_x) from the Atmosphere for Stable Isotopic Analysis

Nicole Pierce, Biological Sciences (major) – Sophomore
Dr. Wendell Walters, Department of Chemistry and Biochemistry – Columbia

Afternoon UGR: Engineering and Computing AA

First Place

Melt Pool Morphology and Surface Roughness Study of 316L Stainless Steel via Laser Powder Bed Fusion

Owen Brennan, Mechanical Engineering (major) – Sophomore
Dr. Lang Yuan, Department of Mechanical Engineering – Columbia

Second Place

Bluetooth Low Energy Communication Security in Wearable IoT Devices: A Fitbit Sense 2 Case Study

Andrew Bishop, Applied Computer Science (major) – Senior
Adriel Sosa, Applied Computer Science (major) – Junior
Dr. Hala Strohmier, Department of Computer Science, Engineering & Mathematics – Aiken

Afternoon UGR: Engineering and Computing BB

First Place

Node-wise Feature Encoding for Neural Performance Prediction

William Hammer, Computer Engineering (major) – Junior
Nikhil Krishna, Computer Engineering (major) – Sophomore
Dr. Ramtin Zand, Department of Computer Science and Engineering – Columbia

Second Place

Effect of Process Parameters on Porosity in Tantalum Fabricated via Laser Powder Bed Fusion

Claire McGarvey, Mechanical Engineering (major) – Junior
Dr. Lang Yuan, Department of Mechanical Engineering – Columbia

Afternoon UGR: Environmental Sciences AA

First Place

Developing mPing-based Constructs for Transposase Assisted Target Site Integration

Madison Hamlin, Biology (major) – Sophomore

Dr. C. Nathan Hancock, Department of Biology and Geology – Aiken

Second Place

A closer look into egg development within *Culicoides sonorensis* midges

Lucero Rodriguez, Biology (major) – Senior

Dr. Mary Mills, Department of Biology and Geology – Aiken

Afternoon UGR: Environmental Sciences BB

First Place

Lost In The Noise: Vessel Traffic Contaminates Seasonal Fish Choruses In Urban Estuaries

Hayden Dunning, Biology (major) – Senior

Dr. Eric Montie, Department of Natural Sciences – Beaufort

Second Place

Regulation of egg development in the livestock

Madelyn Smith, Biology (major) – Senior

Dr. Mary Mills, Department of Biology and Geology – Aiken

Afternoon UGR: Environmental Sciences CC

First Place

The Trophic Stage of Egg Development in Livestock Pests

Isabella Cardenas, Biology (major) – Senior

Dr. Mary Mills, Department of Biology and Geology – Aiken

Second Place

Genetic Analysis of the “Dwarf” Soybean Mutant

James Burns, Biology (major) – Senior

Dr. Nathan Hancock, Department of Biology and Geology – Aiken

Afternoon UGR: Environmental Sciences DD

First Place

Stadium Shakes: What Makes a Crowd Rumble

Ellie Widis, Geological Sciences (major) – Sophomore

Dr. Dan Frost, School of Earth, Ocean, and Environment – Columbia

Second Place

Nutrient-Carbon Relationships in South Carolina Blackwater Systems

Lucia Tyler, Environmental Science (major) – Senior

Dr. Claudia Benitez-Nelson, School of Earth, Ocean, and Environment – Columbia

Afternoon UGR: Health Sciences AA

First Place

Towards Neurotransmitter-Informed Phenotyping of the Aging Brain

Maeve Carlson, Public Health (major) – Junior

Dr. Nicholas Riccardi, Department of Communication Sciences and Disorders – Columbia

Second Place

Cognitive Impairment and Fatigue Across Clinical Subtypes of Parkinson's Disease

Aastha Arora, Biological Sciences (major) – Senior

Dr. Troy Herter, Department of Exercise Science – Columbia

Afternoon UGR: Health Sciences BB

First Place

Brain Age Estimation from Structural Connectomes: Network-Level Vulnerability and Depression Risk

Ansley Martin, Neuroscience (major) – Junior

Dr. Nicholas Riccardi, Department of Communication Sciences and Disorders – Columbia

Second Place

Longitudinal Outcomes of Opioid Use Disorder

Molly Congdon, Neuroscience (major) – Sophomore

Dr. Pieter Baker, Department of Epidemiology and Biostatistics – Columbia

Afternoon UGR: Health Sciences CC

First Place

Moments that Matter: A Student Nurse Approach to Communication with Patients Living with Dementia

Ja'Daiza Johnson, Nursing (with USC Aiken) (major) – Senior

Laura Boquist, Nursing (with USC Aiken) (major) – Senior

Dr. Lachean Kimbrough, Division of Science, Mathematics & Engineering – Sumter

Ms. Sarah McDaniel, School of Nursing – Sumter

Second Place

Blood Flow Restriction Does Not Augment Post-Activation Performance Enhancement in Resistance-Trained Adults

Spencer Barnwell, Baccalaureus Artium et Scientiae (major) – Senior

Dr. Sten Stray-Gundersen, Department of Exercise Science – Columbia

Afternoon UGR: Health Sciences DD

First Place

Comparing Methods for Measuring Smartphone Screen Time: Passive Sensing and Screenshot Reports

Taylor Adair, Biological Sciences (major) – Junior

Dr. Bridget Armstrong, Department of Exercise Science – Columbia

Second Place

Experiences of Stigma Among Young Adults with Diabetes

Melanie DeVries, Cardiovascular Technology (major) – Sophomore

Dr. Angela Liese, Department of Epidemiology and Biostatistics – Columbia

Afternoon UGR: Health Sciences EE

First Place

Lived Experiences of Adults with Diabetes in Rural Northern Belize: A Qualitative Study

Marco Rosas, Biological Sciences (major) – Junior

Dr. Halley Alberts, Department of Emergency Medicine – Prisma Health

Second Place

Rapid evaluation of cochlear-implant vocoder degradations using synthetic vowels and a machine-learning approach

Gavriie Singh, Neuroscience (major) – Sophomore

Dr. Meisam Arjmandi, Department of Communication Sciences and Disorders – Columbia

Afternoon UGR: Health Sciences FF

First Place

Cognitive Performance in Older Adults With and Without Hearing Loss and With Hearing Aids

Aleena Chattha, Biological Sciences (major) – Junior

Dr. Meisam Arjmandi, Department of Communication Sciences and Disorders – Columbia

Second Place

The Intersection of Politics and Medicine: Pre-medical Student Knowledge and Perspectives on Women's Reproductive Healthcare Access

Vanessa Evans, Neuroscience (major) – Senior

Dr. Emily Mann, Department of Health Promotion, Education and Behavior – Columbia

Afternoon UGR: Health Sciences GG

First Place

A Framework for Assessing Time Lags in Translational Science

Kelly McCormack, Biological Sciences (major) – Senior

Dr. Anthony Alberg, Department of Epidemiology and Biostatistics – Columbia

Second Place

Predictors of Physical Activity Goal Achievement among African American Women in the TEAM-PA Trial

Hermella Demsie, Biological Sciences (major) – Junior

Dr. Allison Sweeney, Department of Biobehavioral Health & Nursing Science – Columbia

Afternoon UGR: Psychology and Neuroscience AA

First Place

Investigating the Role of Negated Constructions in Scalar Implicature Judgment

Aryan Bora, Biological Sciences (major) – Junior
Francesca Giuffrida, Psychology (major) – Sophomore
Prof. Amit Almor, Department of Psychology – Columbia

Second Place

Beyond Internalizing Symptoms: Examining the Broader Impact of Parental Anxiety on Child Outcomes

An Le, Biological Sciences (major) – Junior
Dr. Nada Goodrum, Department of Psychology – Columbia

Afternoon UGR: Psychology and Neuroscience BB

First Place

The Assication Between Childhood Emotional Maltreatment, Idenity Disturbance and Sexual Functioning in Emgering Adults

Sam Keats, Psychology (major) – Senior
Dr. Bridget Cho, Department of Psychology – Aiken

Second Place

Compating Relapse Through the Rostromedial Tegmental Nucleus to Ventral Tegmental Area Pathway

Colin Johnson, Neuroscience (major) – Junior
Dr. Peter Vento, Department of Psychology – Columbia

Afternoon UGR: Psychology and Neuroscience CC

First Place

Investigating the Effects of Reward Magnitude on Spatial Sound Processing

Faye Joseph, Neuroscience (major) – Senior
Dr. Jessica Green, Department of Psychology – Columbia

Second Place

Scoping Review: Health-Promotion Interventions for Black Males

Adriana Mirelez, Psychology (major) – Sophomore
Prof. Guillermo Wippold, Department of Psychology – Columbia

Afternoon UGR: Psychology and Neuroscience DD

First Place

Parental Emotion Regulation and Child Externalizing Behaviors Among Families Affected by Major Life Stressors

Tam Dinh, Psychology (major) – Junior
Michelle Gagen, Psychology (major) – Senior
Dr. Nada Goodrum, Department of Psychology – Columbia

Second Place

Examining Predictors of Graduation from the Columbia Homeless Court Program

Tyra Bradley, Psychology (major) - Senior
Dr. Bret Kloos, Department of Psychology – Columbia

Afternoon UGR: Psychology and Neuroscience EE

First Place

Impact of Blue-light Blocking Glasses on Perceived Sleep Quality in College Students with Poor Sleep Quality

Jane Poinsette, Neuroscience (major) – Senior
Dr. Alexandria Reynolds, Department of Psychology – Columbia

Second Place

Analyzing Leader-Follower Dynamics in Task-Oriented Dialogue through Linguistic Alignment

Marguerite Wilson, Neuroscience (major) – Senior
Dr. Amit Almor, Department of Psychology – Columbia

Afternoon UGR: Psychology and Neuroscience FF

First Place

Improving Sleep with a Blue-Light Blocking Amber Lenses Intervention for College Students with Poor Sleep Quality

Dharmik Namineni, Public Health (major) – Junior
Dr. Alexandria Reynolds, Department of Psychology – Columbia

Second Place

Neural Auditory Attention Profiles Across Autism-Associated Monogenic Groups

Wae Man Chan, Neuroscience (major) – Junior
Dr. Caitlin Hudac, Department of Psychology – Columbia

Afternoon UGR: Research AA

First Place

Insomnia impact on one's quality of life

Khloie Sims, Associate in Science (major) – Freshman
Dr. Sarah Carter, Department of Arts – Union

Second Place

South Carolina Cold Case Clearance and Demographics: What Helps and What Hurts?

Eliza Petty, Associate in Art (major) – Senior
Dr. Jennifer Triplett, Department of Arts – Union