

**Office of VP for Research
IT and Data Management Office**

Arnold School of Public Health

Environmental Health Sciences

Jiling, Andrea

Title: *Partnership: Soil health implications of microplastics released from biosolids—an assessment of transport, carbon storage, and flux*

Sponsor: Oklahoma State University/USDA

Total Projected: \$279,742

Project Years: 3

Epidemiology & Biostatistics

Liu, Jihong

Title: *Enhancing Maternal and Postpartum Outcomes through Whole-Person Engagement and Referrals (EMPOWER Project) (Subcontract to Prisma Health)*

Sponsor: Prisma Health-Upstate/The Duke Endowment

Total Projected: \$137,232

Project Years: 4

Health Services Policy & Mgmt

Andrews, Christina

Title: *(PI - Olivia Hinds) Perinatal Opioid Use Disorder Treatment Benefit Design and Maternal-Infant Outcomes in Medicaid Managed Care*

Sponsor: National Institute on Drug Abuse (NIDA)/NIH

Total Projected: \$119,417

Project Years: 3

Title: *Opioid Use Disorder Treatment Resource Mapping and Toolkit for South Carolina Jails*

Sponsor: Office of Substance Use Services - SC Department of Behavioral Health & Development Disabilities (BHDD)/SAMHSA/HHS

Total Projected: \$35,000

Project Years: 1

**Office of VP for Research
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College of Education

Educational & Developmental Science

LeJeune, Lauren

Title: *Better Together: Building University-District Partnerships for Coaching Special Education Teacher Candidates*

Sponsor: UF Collaboration for Effective Educator Development, Accountability, and Reform (CEEDAR) Center/USDE

Total Projected: \$8,992

Project Years: 1

College of Nursing

Biobehavioral Health & Nursing Science

May, Jennifer

Title: *Building Capacity for Patient-Centered CER Cancer Research with Older Adults Nationally*

Sponsor: Patient Centered Outcomes Research Institute (PCORI)

Total Projected: \$299,873

Project Years: 2

Darla Moore School of Business

Moore Sch - Div. of Research

Von Nessen, Joseph

Title: *BMW Manufacturing Company, LLC: Economic Impact Analysis (2026)*

Sponsor: BMW Manufacturing Company, LLC

Total Projected: \$120,000

Project Years: 1

**Office of VP for Research
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Floyd School of Medicine

Neurology

Sen, Souvik

Title: South East Collaborative Alliance for Stroke Trials (SE-CoAST)

Sponsor: Medical University of South Carolina (MUSC)/NIH

Total Projected: \$70,775

Project Years: 5

Pediatrics

Knight, Lisa

Title: Trials and ReseArch Network FOR even More (TRANSFORM-3)

Sponsor: Medical University of South Carolina (MUSC)/Office of the Director/NIH

Total Projected: \$56,623

Project Years: 1

Pharm., Physiology & Neuroscience

Hollis, Fiona

Title: IPA - Haley Dufala -- Validating an animal model of female veteran risk factors for postpartum depression

Sponsor: WJB Dorn VA Medical Center/VA

Total Projected: \$55,730

Project Years: 2

**Office of VP for Research
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Joseph F. Rice School of Law

Children's Law Center

Black, Shelandra

Title: FY26 Investigative Trainings

Sponsor: SC Department of Social Services (DSS)

Total Projected: \$308,625

Project Years: 1

Law - Dean's Office

McGough, Maureen

Title: AVENUES Training to Advance South Carolina Law Enforcement Responses to Domestic Violence – Project Expansion

Sponsor: SC Department of Public Safety (SC DPS)/DOJ

Total Projected: \$297,673

Project Years: 1

Park, Bryant

Title: SC Bar Foundation Public Interest Fellowship - FY2026

Sponsor: SC Bar Foundation

Total Projected: \$15,052

Project Years: 1

**Office of VP for Research
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McCausland College of Arts and Sciences

Physics & Astronomy

Kulkarni, Varsha

Title: Analyzing Galaxy Evolution and Star Formation via the Circumgalactic Medium
(Fellowship for graduate student Mitchell Halley)

Sponsor: College of Charleston/SC Space Grant Consortium/NASA

Total Projected: \$16,000

Project Years: 1

Title: Multiwavelength Extinction Curves in Distant Galaxies

Sponsor: Space Telescope Science Institute (STScI)/NASA

Total Projected: \$28,661

Project Years: 3

Psychology

Bradshaw, Jessica

Title: Neonatal autonomic nervous system dysfunction as a predictor of autism spectrum disorder in preterm infants

Sponsor: National Institute of Mental Health (NIMH)

Total Projected: \$2,651,315

Project Years: 5

Vento, Peter

Title: Rostromedial tegmental inhibition of midbrain dopamine in avoidance-Resubmission

Sponsor: Whitehall Foundation, Inc.

Total Projected: \$300,000

Project Years: 3

**Office of VP for Research
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School of Earth, Ocean & Env.

Meyer-Gutbrod, Erin

Title: Using a right whale movement model to compare risk exposure with fixed management areas versus dynamic management areas

Sponsor: The Broad Reach Fund

Total Projected: \$52,000

Project Years: 1

Sociology

Broussard, Rebekah

Title: Fall 2026 Course Buyout

Sponsor: University of Texas at Austin (UTAUS) - Population Wellbeing Initiative

Total Projected: \$24,940

Project Years: 1

Theatre and Dance

Duffy, Peter

Title: Rooster Tales Camp 2026

Sponsor: SC Arts Commission

Total Projected: \$13,350

Project Years: 1

Molinaroli College of Engineering & Computing

Biomedical Engineering

Uline, Mark

Title: ARLIS Credibility Assessment System Sensor Analytics Performance Evaluation and Review (CASPER) Task Order

Sponsor: ARLIS/University of Maryland/DOD

Total Projected: \$1,020,000

Project Years: 1

Office of VP for Research IT and Data Management Office

Wei, Tao

Title: *Simulation Study of Dual Functional Fouling Resistant and Fouling Release Polymers and Extremely Nonfouling Polymers*

Sponsor: Office of Naval Research (ONR)/DOD

Total Projected: \$528,000

Project Years: 3

Chemical Engineering

Heyden, Andreas

Title: *Collaborative Research: Understanding and controlling solvent effects in TiO₂-catalyzed aldol condensation*

Sponsor: National Science Foundation (NSF)

Total Projected: \$314,000

Project Years: 3

Sadati, Monirosadat

Title: *DL-Imaging, Model-Enabled Microfluidics for High-Throughput Discovery of Migrastatic Therapies*

Sponsor: SC EPSCoR

Total Projected: \$70,000

Project Years: 2

Computer Science & Engineering

Agostinelli, Forest

Title: *CAREER: Solving Pathfinding Problems with High-Level Goal Specifications*

Sponsor: National Science Foundation (NSF)

Total Projected: \$492,131

Project Years: 5

**Office of VP for Research
IT and Data Management Office**

Electrical Engineering

Fang, Xin

Title: Accelerating Grid Resilience: Foundational Work for Power Distribution Systems Digital Twins

Sponsor: Battelle Energy Alliance, LLC (BEA)/INL/DOE

Total Projected: \$50,000

Project Years: 2

Mechanical Engineering

Bayoumi, Abdel

Title: Advancing Predictive Infrastructure Monitoring Solutions

Sponsor: Empowered Startups USA Ltd.

Total Projected: \$25,000

Project Years: 1

Title: Advanced Magnetic Bearing for Electric Rim Drive Propulsion

Sponsor: College of Charleston/SC Space Grant Consortium/EPSCoR/NASA

Total Projected: \$35,000

Project Years: 1

De Backer, Wout

Title: (Student PI: Alberto Diaz) Adaptive Spray Control Injector for Liquid Rocket Propulsion

Sponsor: College of Charleston/SC Space Grant Consortium/EPSCoR/NASA

Total Projected: \$7,500

Project Years: 1

Title: (Student PI: Jacob Boutin) Quantum NV CubeSat Payload for Magnetosphere Disturbance Detection

Sponsor: College of Charleston/SC Space Grant Consortium/EPSCoR/NASA

Total Projected: \$7,500

Project Years: 1

**Office of VP for Research
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Downey, Austin

Title: *(Student PI: Drew Huebner) Digital Twinning of a Closed-Loop Thermal System for Space-Relevant Thermal Management*

Sponsor: College of Charleston/SC Space Grant Consortium/EPSCoR/NASA

Total Projected: \$7,500

Project Years: 1

Huang, Kevin

Title: *Testing Iron Media for Energy Storage*

Sponsor: SpringCycle Energy, Inc.

Total Projected: \$65,000

Project Years: 1

Lee, Junsoo

Title: *(Student PI: Shashwat Yadav) Robust Control Framework for Retractable Tether Multirotor UAVs*

Sponsor: College of Charleston/SC Space Grant Consortium/EPSCoR/NASA

Total Projected: \$7,500

Project Years: 1

Wang, Yi

Title: *(Student PI: Noah Young) Validated Terrain-Occluded Radar Simulation for Autonomous Navigation*

Sponsor: College of Charleston/SC Space Grant Consortium/EPSCoR/NASA

Total Projected: \$7,500

Project Years: 1

**Office of VP for Research
IT and Data Management Office**

Office of the Provost

Rule of Law Collaborative

Hall, Karen

Title: *Countering Wildlife Trafficking (CWT) and Other Natural Resource Crime in Africa, Asia, and Latin America subaward from TAF*

Sponsor: The Asia Foundation (TAF)/US Department of State

Total Projected: \$204,638

Project Years: 2

Undergraduate Studies

Graduate and Retention Network

Briggs Budden, LaNae

Title: *IIE American Passport Project*

Sponsor: Institute of International Education (IIE), Inc.

Total Projected: \$4,125

Project Years: 1

University of SC Aiken

AK Biology & Geology

Harmon, Sarah

Title: *2025 Workforce Opportunities in Regional Careers (WORC I) Renewal*

Sponsor: SRS Community Reuse Organization(SRSCRO)/NNSA/DOE

Total Projected: \$899,675

Project Years: 5

**Office of VP for Research
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University of SC Lancaster

LAN PALMETTO COLLEGE

Taylor, Brittany

Title: Americans Exhibition in Lancaster

Sponsor: SC Humanities/NEH

Total Projected: \$2,500

Project Years: 1

University of SC Union

UN PALMETTO COLLEGE

Carter, Sarah

Title: UpCountry Literary and Arts Festival

Sponsor: Dollar General Literacy Foundation

Total Projected: \$1,000

Project Years: 1

Conley, Carolyn

Title: Dollar General Literacy Foundation- USC Union Summer Literacy Clinics

Sponsor: Dollar General Literacy Foundation

Total Projected: \$2,500

Project Years: 1

Edwards, Cheryl

Title: Chester Healthcare Foundation Spring 2026

Sponsor: USC Educational Foundation/Chester Healthcare Foundation

Total Projected: \$15,000

Project Years: 1

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