

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

**August, 2023 New Awards**

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**Arnold School of Public Health**

***Epidemiology & Biostatistics***

**Boghossian, Nansi**

*Reducing racial disparities in postpartum adverse outcomes by implementing a cloud-connected remote blood pressure monitoring program* 590,000

**Sponsor:** USC Educational Foundation/The Duke Endowment

PS PROJECT: 10013112

TOTAL\_PROJECT\_AMT. IF AVAILABLE:

PROJECT YEARS: 3

**McLain, Alexander**

*Etiology of Accelerated Weight Gain during Summer vs. School in Adolescents: What's UP (Undermining Prevention) with Summer 2* 6,479

**Sponsor:** National Institute of Diabetes & Digestive & Kidney Diseases (NIDDK)/NIH

PS PROJECT: 10013290

TOTAL\_PROJECT\_AMT. IF AVAILABLE:

PROJECT YEARS: 5

**Nolan, Melissa**

*The ITALIC Study: Integrating Telemedicine and at-home Evaluation to Catalyze Early Detection Among Rural and Minority South Carolinians* 610,000

**Sponsor:** USC Educational Foundation/Duke Foundation

PS PROJECT: 10013151

TOTAL\_PROJECT\_AMT. IF AVAILABLE: 630,000

PROJECT YEARS: 3

***Exercise Science***

**Beets, Michael**

*Etiology of Accelerated Weight Gain during Summer vs. School in Adolescents: What's UP (Undermining Prevention) with Summer 2* 648,786

**Sponsor:** National Institute of Diabetes & Digestive & Kidney Diseases (NIDDK)/NIH

PS PROJECT: 10013291

TOTAL\_PROJECT\_AMT. IF AVAILABLE: 2,621,060

PROJECT YEARS: 5

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**Health Services Policy & Mgmt**

**Hair, Nicole**

*Childhood Measles Exposure and Later-Life Cognition: The Mediating Role of Education* 24,996

**Sponsor:** University of Maryland/NIA/NIH

PS PROJECT: 10013269

TOTAL\_PROJECT\_AMT. IF AVAILABLE:

PROJECT YEARS: 1

**College of Arts and Sciences**

**BARUCH COASTAL LABORATORY**

**Strosnider, William**

*From blue-gray to blue-green: Facilitating the transition to non-plastic, natural material use within the coastal zone economy* 787,691

**Sponsor:** SC Sea Grant Consortium/NOAA

PS PROJECT: 10013223

TOTAL\_PROJECT\_AMT. IF AVAILABLE: 2,321,986

PROJECT YEARS: 3

**Biological Sciences**

**Davis, Shannon**

*Discovery Pipeline for Genetic Defects in Hypothalamic-Pituitary Development Using International Mouse Phenotyping Consortium Mice* 119,889

**Sponsor:** University of Michigan/NIH

PS PROJECT: 10013024

TOTAL\_PROJECT\_AMT. IF AVAILABLE: 528,685

PROJECT YEARS: 4

**Chemistry & Biochemistry**

**Garashchuk, Sophya**

*Quantum dynamics with nuclear quantum effects: a hierarchical methodology for large molecular systems* 530,000

**Sponsor:** National Science Foundation (NSF)

PS PROJECT: 10013233

TOTAL\_PROJECT\_AMT. IF AVAILABLE:

PROJECT YEARS: 3

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**Ge, Ting**

*Controlling Equilibrium Swelling of Polyampholyte Gels Using Charge Sequence - A Study  
Combining Molecular Simulation and Scaling Theory* 110,000

**Sponsor:** American Chemical Society Petroleum Research Fund

PS PROJECT: 10013232  
TOTAL\_PROJECT\_AMT. IF AVAILABLE:  
PROJECT YEARS: 2

**Wiskur, Sheryl**

*Understanding the effect of polymer microenvironment on reaction rates and selectivity* 555,124

**Sponsor:** National Science Foundation (NSF)

PS PROJECT: 10013018  
TOTAL\_PROJECT\_AMT. IF AVAILABLE:  
PROJECT YEARS: 3

**Criminology & Criminal Justice**

**Alpert, Geoffrey**

*Evaluating Artificial Intelligence Interventions in Police Body-Cameras* 71,621

**Sponsor:** Laura and John Arnold Foundation

PS PROJECT: 10013049  
TOTAL\_PROJECT\_AMT. IF AVAILABLE:  
PROJECT YEARS: 1

**Geography**

**Cutter, Susan**

*RII Track-2 FEC: Where We Live (WWL): Local and Place Based Adaptation to Climate  
Change in Underserved Rural Communities* 891,642

**Sponsor:** National Science Foundation (NSF)

PS PROJECT: 10013276  
TOTAL\_PROJECT\_AMT. IF AVAILABLE: 1,780,000  
PROJECT YEARS: 4

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**Wang, Cuizhen (Susan)**

*3D Visualization of hydrogeologic raster surfaces in South Carolina Hydrogeologic Framework*

34,982

**Sponsor:** US Geological Survey (USGS)/DOI

PS PROJECT: 10013236

TOTAL\_PROJECT\_AMT. IF AVAILABLE:

PROJECT YEARS: 1

**Mathematics**

**Dahmen, Wolfgang**

*FRG: Collaborative Research: Variationally Stable Neural Networks for Simulation, Learning, and Experimental Design of Complex Physical Systems*

133,594

**Sponsor:** National Science Foundation (NSF)

PS PROJECT: 10013180

TOTAL\_PROJECT\_AMT. IF AVAILABLE: 599,999

PROJECT YEARS: 3

**Tsai, Wei-Lun**

*AMS-Simons Travel Grant*

3,600

**Sponsor:** American Mathematical Society (AMS)/Simons Foundation

PS PROJECT: 10013329

TOTAL\_PROJECT\_AMT. IF AVAILABLE: 7,200

PROJECT YEARS: 2

**Psychology**

**Rorden, Christopher**

*Extending ezBIDS, NiiVue and dcm2niix for user-friendly cloud-based integration and visualization*

1,967,901

**Sponsor:** National Institute of Mental Health (NIMH)/NIH

PS PROJECT: 10013261

TOTAL\_PROJECT\_AMT. IF AVAILABLE: 2,039,629

PROJECT YEARS: 3

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**Smith, Courtnie**

*John H. Magill School Mental Health Certificate Program*

35,577

**Sponsor:** SC Department of Mental Health (SCDMH)

PS PROJECT: 10013278

TOTAL\_PROJECT\_AMT. IF AVAILABLE:

PROJECT YEARS: 1

**School of Earth, Ocean & Env.**

**Frost, Daniel (Dan)**

*Collaborative Research: High-resolution imaging of the Elgin-Lugoff earthquake swarm sequence and subsurface structures in South Carolina using a dense seismic nodal array*

168,420

**Sponsor:** National Science Foundation (NSF)

PS PROJECT: 10013237

TOTAL\_PROJECT\_AMT. IF AVAILABLE:

PROJECT YEARS: 2

**Meyer-Gutbrod, Erin**

*Organismal Response to Climate Change (ORCC)*

323,550

**Sponsor:** National Science Foundation (NSF)

PS PROJECT: 10013238

TOTAL\_PROJECT\_AMT. IF AVAILABLE:

PROJECT YEARS: 3

**Sociology**

**Broussard, Rebekah**

*Fall course Buyouts - 2023 and 2024*

23,774

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

PS PROJECT: 10013297

TOTAL\_PROJECT\_AMT. IF AVAILABLE:

PROJECT YEARS: 2

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**College of Education**

**Leadership, Learning Design, & Inquiry**

**Johnson, Jamil**

*A Resource Collection Advancing Educational Equity and Student Success* 26,250

**Sponsor:** National Association of Student Personnel Administrators (NASPA)

PS PROJECT: 10013295

TOTAL\_PROJECT\_AMT. IF AVAILABLE:

PROJECT YEARS: 2

**College of Engineering & Comp.**

**Chemical Engineering**

**Ritter, James**

*Fabrication of a 4-Bed Rotary Valve PSA Pilot Plant* 210,000

**Sponsor:** ColdStream Energy, LLC

PS PROJECT: 10013224

TOTAL\_PROJECT\_AMT. IF AVAILABLE:

PROJECT YEARS: 1

**Civil & Environmental Eng.**

**Rizos, Dimitris**

*University Transportation Centers Program: University Transportation Center for Railway Safety (UTCRS) – Smart Technologies for Safer Railways* 250,000

**Sponsor:** University of Texas Rio Grande Valley/DOT

PS PROJECT: 10012933

TOTAL\_PROJECT\_AMT. IF AVAILABLE:

PROJECT YEARS: 1

**Computer Science & Engineering**

**O'Reilly, Christian**

*Extending ezBIDS, NiiVue and dcm2niix for user-friendly cloud-based integration and visualization* 71,728

**Sponsor:** National Institute of Mental Health (NIMH)/NIH

PS PROJECT: 10013262

TOTAL\_PROJECT\_AMT. IF AVAILABLE:

PROJECT YEARS: 3

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**Sheth, Amit**

*EAGER: Knowledge-guided neurosymbolic AI with guardrails for safe virtual health assistants* 200,000

**Sponsor:** National Science Foundation (NSF)

PS PROJECT: 10013265

TOTAL\_PROJECT\_AMT. IF AVAILABLE:

PROJECT YEARS: 2

*Summer AI Camp 2023* 10,200

**Sponsor:** Richland County School District II

PS PROJECT: 10013267

TOTAL\_PROJECT\_AMT. IF AVAILABLE:

PROJECT YEARS: 1

**Electrical Engineering**

**Chandrashekhar, MVS**

*Vertical Laser Lifted Off Ultrawide Bandgap AlxGa1-xN Power Electronic Devices Transferred from Bulk AlN for Resilient Adaptable Power Electronics* 599,923

**Sponsor:** Air Force Office of Scientific Research (AFOSR)/USAF/DOD

PS PROJECT: 10013258

TOTAL\_PROJECT\_AMT. IF AVAILABLE:

PROJECT YEARS: 3

**Mechanical Engineering**

**Barazanchy, Darun**

*Collins Aerospace: blind induction welding optimization* 144,990

**Sponsor:** Collins Aerospace

PS PROJECT: 10012958

TOTAL\_PROJECT\_AMT. IF AVAILABLE:

PROJECT YEARS: 1

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**College of Information & Comm.**

**School of Information Sciences**

**Freeburg, Darin**

*Identity-Based Routines in the Public Library: Structuring the Workplace to Better Support Staff with Diverse Identities* 321,973

**Sponsor:** Institute of Museum and Library Services (IMLS)

PS PROJECT: 10013260

TOTAL\_PROJECT\_AMT. IF AVAILABLE:

PROJECT YEARS: 3

**Kawooya, Dick**

*Equitable Access for the Blind, Visually Impaired, and Print-Disabled (BVIPD) Students in Online Learning: A Study of BVIPD Services Among Southeastern Conference (SEC) Institutions* 249,394

**Sponsor:** Institute of Museum and Library Services (IMLS)

PS PROJECT: 10013279

TOTAL\_PROJECT\_AMT. IF AVAILABLE:

PROJECT YEARS: 3

**College of Nursing**

**Nursing**

**Dail, Robin**

*(PI - Karen Warren) Exploring the impact of neonatal transport on the health of Black preterm infants and psychosocial challenges faced by parents in relation to social determinants of socioeconomic and racial inequities* 34,104

**Sponsor:** National Institute of Nursing Research (NINR)/NIH

PS PROJECT: 10013272

TOTAL\_PROJECT\_AMT. IF AVAILABLE:

PROJECT YEARS: 1

**Donevant, Sara**

*Using Infrared Thermography and Artificial Intelligence to Detect Tissue Damage Below the Skin* 15,000

**Sponsor:** South Carolina Research Authority (SCRA)

PS PROJECT: 10013263

TOTAL\_PROJECT\_AMT. IF AVAILABLE:

PROJECT YEARS: 1



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**Ribar, Alicia**

*Expanding an APRN Practice Training Partnership in South Carolina*

649,947

**Sponsor:** Health Resources & Services Administration (HRSA)/HHS

PS PROJECT: 10013242

TOTAL\_PROJECT\_AMT. IF AVAILABLE:

PROJECT YEARS: 4

**Vick, Lori**

*Phase I study of panobinostat in adults with sickle cell disease: Novel approach to recruitment and retention*

36,903

**Sponsor:** Augusta University/NIH

PS PROJECT: 10013259

TOTAL\_PROJECT\_AMT. IF AVAILABLE:

PROJECT YEARS: 3

**College of Pharmacy**

***Drug Discovery & Biomed Sci.***

**Kiaris, Hippokratis**

*Peromyscus Genetic Stock Center Support*

500,000

**Sponsor:** National Science Foundation (NSF)

PS PROJECT: 10013244

TOTAL\_PROJECT\_AMT. IF AVAILABLE:

PROJECT YEARS: 3

**College of Social Work**

***Social Work - Dean's Office***

**Kim, Jaeseung**

*Underemployment, Poor-Quality Work Scheduling: Their Health and Well Being Outcomes and Disparities*

30,989

**Sponsor:** Penn State University/Urban Institute

PS PROJECT: 10013294

TOTAL\_PROJECT\_AMT. IF AVAILABLE: 30,989

PROJECT YEARS: 1

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**Darla Moore School of Business**

**Moore Sch - Div. of Research**

**Von Nessen, Joseph**

*South Carolina Sea Grant Consortium: Economic Impact Analysis* 30,000

**Sponsor:** SC Sea Grant Consortium/NOAA

PS PROJECT: 10013301

TOTAL\_PROJECT\_AMT. IF AVAILABLE:

PROJECT YEARS: 1

**Small Business Dev. Ctr.**

**Abraham, Michele**

*South Carolina Department of Commerce Award Fiscal Year 2023-2024 - (State Director's Office)* 1,000,000

**Sponsor:** SC Department of Commerce (SCDOC)

PS PROJECT: 10013302

TOTAL\_PROJECT\_AMT. IF AVAILABLE: 1,000,000

PROJECT YEARS: 1

**Economic Engagement**

**Ofc of Economic Engagement**

**Hardaway, Chad**

*Michelin iOS Visual Inspection Project* 5,000

**Sponsor:** Michelin

PS PROJECT: 10013256

TOTAL\_PROJECT\_AMT. IF AVAILABLE:

PROJECT YEARS: 1

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**Law Enforcement & Safety**

**UNIVERSITY POLICE DEPARTMENT**

**Birnie, Stephen**

*Firehouse Sub Public Safety Foundation Grant 2023*

23,587

**Sponsor:** Firehouse Sub Public Safety Foundations

PS PROJECT: 10013231

TOTAL\_PROJECT\_AMT. IF AVAILABLE:

PROJECT YEARS: 1

**Research, Vice President for**

**Office Research - General**

**Barlow, Shayne**

*Modernization of Housing for the Peromyscus Genetic Stock Center*

346,230

**Sponsor:** Office of the Director/NIH

PS PROJECT: 10013251

TOTAL\_PROJECT\_AMT. IF AVAILABLE:

PROJECT YEARS: 1

**School of Medicine**

**Cell Biology & Anatomy**

**Tan, Wenbin**

*Generation and Validation of Disease Models for Port-Wine Birthmarks*

196,680

**Sponsor:** National Institute of Arthritis & Musculoskeletal & Skin Diseases (NIAMS)/NIH

PS PROJECT: 10013225

TOTAL\_PROJECT\_AMT. IF AVAILABLE: 360,580

PROJECT YEARS: 2

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**MDC Ctr Disability Resources**

**Rotholz, David**

*Team for Early Childhood Solutions Data System Management and Compliance Indicator Analysis* 445,000

**Sponsor:** SC Department of Health and Human Services

PS PROJECT: 10013240

TOTAL\_PROJECT\_AMT. IF AVAILABLE:

PROJECT YEARS: 1

*Training Programs and Technical Assistance for Staff* 605,097

**Sponsor:** SC Department of Disabilities and Special Needs

PS PROJECT: 10013247

TOTAL\_PROJECT\_AMT. IF AVAILABLE:

PROJECT YEARS: 1

*Provision and Training and Certification for Self-Directed Attendant Care for ID/DD and HASCI Waiver Participants* 200,000

**Sponsor:** SC Department of Disabilities and Special Needs

PS PROJECT: 10013270

TOTAL\_PROJECT\_AMT. IF AVAILABLE:

PROJECT YEARS: 1

**Neuropsychiatry**

**Thornhill, Joshua**

*PDMHSEC Support of the USCSOM Associate Dean for Medical Student Education – Florence* 205,530

**Sponsor:** Pee Dee Medical & Health Sciences Education Consortium/SC DHHS

PS PROJECT: 10013313

TOTAL\_PROJECT\_AMT. IF AVAILABLE:

PROJECT YEARS: 1

**Path, Microbio. & Immunology**

**Wilson, Kiesha**

*Role of macrophages in CBD mediated attenuation of SEB-induced ARDS (R00)* 248,958

**Sponsor:** National Institute of General Medical Sciences (NIGMS)/NIH

PS PROJECT: 10013271

TOTAL\_PROJECT\_AMT. IF AVAILABLE: 764,874

PROJECT YEARS: 5

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**University of SC Beaufort**

***BFT Academic Affairs***

**Beachkofsky, Sarah**

*Vision for the Future: A Collaboration between USCB and the Town of Hilton Head Island* 238,985

**Sponsor:** Town of Hilton Head Island

PS PROJECT: 10013235

TOTAL\_PROJECT\_AMT. IF AVAILABLE:

PROJECT YEARS: 1

***BFT Natural Sciences***

**Pettay, Daniel**

*Town of Bluffton Water Quality MOU* 185,000

**Sponsor:** Town of Bluffton

PS PROJECT: 10013234

TOTAL\_PROJECT\_AMT. IF AVAILABLE:

PROJECT YEARS: 5

**University of SC Upstate**

***UPS Achieve***

**Oswald-Hensley, Anna**

*USC Upstate ACHIEVE 2023-24* 440,403

**Sponsor:** Upstate Workforce Board/DOL

PS PROJECT: 10013193

TOTAL\_PROJECT\_AMT. IF AVAILABLE:

PROJECT YEARS: 1

***UPS Human Perform and Hlth***

**Pae, Holly**

*Project CREATE 2023-24* 23,339

**Sponsor:** SC Department of Education (SCDE)

PS PROJECT: 10013287

TOTAL\_PROJECT\_AMT. IF AVAILABLE:

PROJECT YEARS: 1

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***UPS Natural Sciences & Eng***

**Tanner, Scott**

*Mikayla Spangler: Histochemical Society*

2,000

**Sponsor:** The Histochemical Society

PS PROJECT: 10013307

TOTAL\_PROJECT\_AMT. IF AVAILABLE:

PROJECT YEARS: 1

**Report Total:**

**\$15,184,836**