Arnold School of Public Health

Epidemiology & Biostatistics

Boghossian, Narsi
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
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
Ge, Ting
Controlling Equilibrium Swelling of Polyampholyte Gels Using Charge Sequence - A Study
Combining Molecular Simulation and Scaling Theory

Sponsor: American Chemical Society Petroleum Research Fund
PS PROJECT: 10013232
TOTAL_PROJECT_AMT. IF AVAILABLE: 110,000
PROJECT YEARS: 2

Wiskur, Sheryl
Understanding the effect of polymer microenvironment on reaction rates and selectivity

Sponsor: National Science Foundation (NSF)
PS PROJECT: 10013018
TOTAL_PROJECT_AMT. IF AVAILABLE: 555,124
PROJECT YEARS: 3

Criminology & Criminal Justice
Alpert, Geoffrey
Evaluating Artificial Intelligence Interventions in Police Body-Cameras

Sponsor: Laura and John Arnold Foundation
PS PROJECT: 10013049
TOTAL_PROJECT_AMT. IF AVAILABLE: 71,621
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

Sponsor: National Science Foundation (NSF)
PS PROJECT: 10013276
TOTAL_PROJECT_AMT. IF AVAILABLE: 891,642
PROJECT YEARS: 4

Sponsor: National Science Foundation (NSF)
PS PROJECT: 10013276
TOTAL_PROJECT_AMT. IF AVAILABLE: 1,780,000
PROJECT YEARS: 4
Wang, Cuizhen (Susan)
3D Visualization of hydrogeologic raster surfaces in South Carolina Hydrogeologic Framework

Sponsor: US Geological Survey (USGS)/DOI
PS PROJECT: 10013236
TOTAL_PROJECT_AMT. IF AVAILABLE: 34,982
PROJECT YEARS: 1

Mathematics
Dahmen, Wolfgang

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

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

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

Sponsor: National Institute of Mental Health (NIMH)/NIH
PS PROJECT: 10013261
TOTAL_PROJECT_AMT. IF AVAILABLE: 2,039,629
PROJECT YEARS: 3
Smith, Courtnie
John H. Magill School Mental Health Certificate Program
Sponsor: SC Department of Mental Health (SCDMH)
PS PROJECT: 10013278
TOTAL_PROJECT_AMT. IF AVAILABLE: 35,577
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
Sponsor: National Science Foundation (NSF)
PS PROJECT: 10013237
TOTAL_PROJECT_AMT. IF AVAILABLE: 168,420
PROJECT YEARS: 2

Meyer-Gutbrod, Erin
Organismal Response to Climate Change (ORCC)
Sponsor: National Science Foundation (NSF)
PS PROJECT: 10013238
TOTAL_PROJECT_AMT. IF AVAILABLE: 323,550
PROJECT YEARS: 3

Sociology
Broussard, Rebekah
Fall course Buyouts - 2023 and 2024
Sponsor: University of Texas at Austin (UTAUS) - Population Wellbeing Initiative
PS PROJECT: 10013297
TOTAL_PROJECT_AMT. IF AVAILABLE: 23,774
PROJECT YEARS: 2
College of Education

**Leadership, Learning Design, & Inquiry**

Johnson, Jamil

*A Resource Collection Advancing Educational Equity and Student Success*  
Sponsor: National Association of Student Personnel Administrators (NASPA)

- Project Number: 10013295
- Project Years: 2
- Total Project Amount (if available): 26,250

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College of Engineering & Comp.

**Chemical Engineering**

Ritter, James

*Fabrication of a 4-Bed Rotary Valve PSA Pilot Plant*  
Sponsor: ColdStream Energy, LLC

- Project Number: 10013224
- Project Years: 1
- Total Project Amount (if available): 210,000

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**Civil & Environmental Eng.**

Rizos, Dimitris

*University Transportation Centers Program: University Transportation Center for Railway Safety (UTCRS) – Smart Technologies for Safer Railways*  
Sponsor: University of Texas Rio Grande Valley/DOT

- Project Number: 10012933
- Project Years: 1
- Total Project Amount (if available): 250,000

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**Computer Science & Engineering**

O'Reilly, Christian

*Extending ezBIDS, NiiVue and dcm2niix for user-friendly cloud-based integration and visualization*  
Sponsor: National Institute of Mental Health (NIMH)/NIH

- Project Number: 10013262
- Project Years: 3
- Total Project Amount (if available): 71,728
Sheth, Amit

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

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

- **PS PROJECT:** 10013265
- **TOTAL_PROJECT_AMT. IF AVAILABLE:**
- **PROJECT YEARS:** 2

**Summer AI Camp 2023**

**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**

**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**

**Sponsor:** Collins Aerospace

- **PS PROJECT:** 10012958
- **TOTAL_PROJECT_AMT. IF AVAILABLE:**
- **PROJECT YEARS:** 1
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*

Sponsor: Institute of Museum and Library Services (IMLS)

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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*

Sponsor: Institute of Museum and Library Services (IMLS)

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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*

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

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Donevant, Sara

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

Sponsor: South Carolina Research Authority (SCRA)

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Ribar, Alicia
*Expanding an APRN Practice Training Partnership in South Carolina*

**Sponsor:** Health Resources & Services Administration (HRSA)/HHS
- PS PROJECT: 10013242
- TOTAL_PROJECT_AMT. IF AVAILABLE: 649,947
- PROJECT YEARS: 4

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

**Sponsor:** Augusta University/NIH
- PS PROJECT: 10013259
- TOTAL_PROJECT_AMT. IF AVAILABLE: 36,903
- PROJECT YEARS: 3

**College of Pharmacy**

*Drug Discovery & Biomed Sci.*

Kiaris, Hippokratis
*Peromyscus Genetic Stock Center Support*

**Sponsor:** National Science Foundation (NSF)
- PS PROJECT: 10013244
- TOTAL_PROJECT_AMT. IF AVAILABLE: 500,000
- 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*

**Sponsor:** Penn State University/Urban Institute
- PS PROJECT: 10013294
- TOTAL_PROJECT_AMT. IF AVAILABLE: 30,989
- PROJECT YEARS: 1
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**

*Micelin iOS Visual Inspection Project*  5,000

**Sponsor:** Micelin  
PS PROJECT: 10013256  
TOTAL_PROJECT_AMT. IF AVAILABLE:  
PROJECT YEARS: 1
Law Enforcement & Safety

UNIVERSITY POLICE DEPARTMENT

Birnie, Stephen
Firehouse Sub Public Safety Foundation Grant 2023

**Sponsor:** Firehouse Sub Public Safety Foundations

- PS PROJECT: 10013231
- TOTAL_PROJECT_AMT. IF AVAILABLE: 23,587
- PROJECT YEARS: 1

Research, Vice President for

Office Research - General

Barlow, Shayne

Modernization of Housing for the Peromyscus Genetic Stock Center

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

- PS PROJECT: 10013251
- TOTAL_PROJECT_AMT. IF AVAILABLE: 346,230
- PROJECT YEARS: 1

School of Medicine

Cell Biology & Anatomy

Tan, Wenbin

Generation and Validation of Disease Models for Port-Wine Birthmarks

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

- PS PROJECT: 10013225
- TOTAL_PROJECT_AMT. IF AVAILABLE: 360,580
- PROJECT YEARS: 2
Office of Research
IT and Data Management Office
August, 2023   New Awards

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 ad 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
Office of Research  
IT and Data Management Office  
August, 2023   New Awards