Arnold School of Public Health

**Applied Research & Evaluation (CARE)**

*Workman, Lauren*

*SC MIECHV FY23 Coordinated State Evaluation (2023-2025)*

**Sponsor:** Children’s Trust of South Carolina/HRSA

- **PS PROJECT:** 10013781
- **TOTAL_PROJECT_AMT. IF AVAILABLE:** 150,896
- **PROJECT YEARS:** 2

**Communication Sci & Disorders**

*Bonilha, Heather*

*Excess Radiation Exposure in Infants and Children From Videofluoroscopic Swallow Studies*

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

- **PS PROJECT:** 10013785
- **TOTAL_PROJECT_AMT. IF AVAILABLE:** 385,871
- **PROJECT YEARS:** 5

*Fridriksson, Julius*

*Neural Bases of Vocal Sensorimotor Impairment in Aphasia - Subaward*

**Sponsor:** University of Texas at Dallas/NIH

- **PS PROJECT:** 10013254
- **TOTAL_PROJECT_AMT. IF AVAILABLE:** 434,916
- **PROJECT YEARS:** 3

**Environmental Health Sciences**

*Jilling, Andrea*

*Collaborative Research: Mineral-associated organic matter: an overlooked source and mediator of bioavailable nitrogen*

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

- **PS PROJECT:** 10013761
- **TOTAL_PROJECT_AMT. IF AVAILABLE:** 374,500
- **PROJECT YEARS:** 2
Office of Research
IT and Data Management Office
February, 2024   New Awards

Epidemiology & Biostatistics
Perumal, Nandita

Demonstrating non-inferiority of a lower dose (500 mg) calcium supplementation during pregnancy for reducing preeclampsia (PE) and neonatal outcomes

Sponsor: Harvard University/Bill & Melinda Gates Foundation
PS PROJECT: 10013793
TOTAL_PROJECT_AMT. IF AVAILABLE: 13,219
PROJECT YEARS: 1

Exercise Science
Arent, Shawn

High-Intensity Functional Training Adaptations with and without Maximus Ventilatory Training Device

Sponsor: Neo-Ventures LLC, DBA MAXIMUS
PS PROJECT: 10013779
TOTAL_PROJECT_AMT. IF AVAILABLE: 11,011
PROJECT YEARS: 1

Health Prom., Educ. & Behavior
Frongillo, Edward

What difference does it make? Learning from the stakeholders of the Weekend Food Program about their experiences of program participation

Sponsor: Every Meal
PS PROJECT: 10013791
TOTAL_PROJECT_AMT. IF AVAILABLE: 2,514
PROJECT YEARS: 1
Ghattas, Hala

Using complex systems methods to co-produce solutions for how emergency food assistance can prioritise healthy foods for vulnerable populations in Lebanon/Gates Foundation

**Sponsor:** London School of Hygiene and Tropical Medicine/Gates Foundation

- PS PROJECT: 10013783
- TOTAL_PROJECT_AMT. IF AVAILABLE: 
- PROJECT YEARS: 2

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Using complex systems methods to co-produce solutions for how emergency food assistance can prioritise healthy foods for vulnerable populations in Lebanon/FCDO

**Sponsor:** London School of Hygiene & Tropical Medicine/Foreign, Commonwealth and Development Office (FCDO)

- PS PROJECT: 10013792
- TOTAL_PROJECT_AMT. IF AVAILABLE: 13,092
- PROJECT YEARS: 2

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Rahemtullah, Omme-Salma

CDBG Grant: NeighborShare

**Sponsor:** SC Research Foundation (SCRF)/Richland County

- PS PROJECT: 10013315
- TOTAL_PROJECT_AMT. IF AVAILABLE: 71,540
- PROJECT YEARS: 1

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Thrasher, James

Advancing Tobacco Regulatory Science to Reduce Health Disparities: Advancing Communication Science to Reduce Disparities in Young Adult Cigar Use

**Sponsor:** UNC Chapel Hill/NIDA/NIH

- PS PROJECT: 10013764
- TOTAL_PROJECT_AMT. IF AVAILABLE: 191,414
- PROJECT YEARS: 5

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Health Services Policy & Mgmt

Andrews, Christina

South Carolina Center for Excellence in Addiction – General Assembly

**Sponsor:** SC Department of Alcohol & Other Drug Abuse Services (DAODAS)/General Assembly

- PS PROJECT: 10013644
- TOTAL_PROJECT_AMT. IF AVAILABLE: 114,942
- PROJECT YEARS: 1
Olatosi, Bankole
*South Carolina Center for Excellence in Addiction – General Assembly* 15,467

**Sponsor:** SC Department of Alcohol and Other Drug Abuse Services (DAODAS)/General Assembly

- PS PROJECT: 10013645
- TOTAL_PROJECT_AMT. IF AVAILABLE:
- PROJECT YEARS: 1

**PASOS**

Martin, Maria
*Greenwood Genetics Partnership for Folic Acid Promotion with Latino Communities 2024* 26,000

**Sponsor:** Greenwood Genetic Center

- PS PROJECT: 10013744
- TOTAL_PROJECT_AMT. IF AVAILABLE:
- PROJECT YEARS: 1

**College of Arts and Sciences**

**Archaeology & Anthropology**

King, Adam
*US Forest Service Supplemental Project Agreement: Archaeological Survey and Collections Curation Services* 101,405

**Sponsor:** Forest Service, Francis Marion and Sumter National Forests - USDA

- PS PROJECT: 10013762
- TOTAL_PROJECT_AMT. IF AVAILABLE:
- PROJECT YEARS: 1

**Chemistry & Biochemistry**

Walters, Wendell
*Evaluating the Atmospheric Dynamics of Nitrate and Sulfate in Southern New England in Response to Emission Regulations* 6,722

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

- PS PROJECT: 10013743
- TOTAL_PROJECT_AMT. IF AVAILABLE:
- PROJECT YEARS: 1
Criminology & Criminal Justice
Adams, Ian
Institutional Structure of Police Leadership
Sponsor: University of Utah/NIJ/DOJ
PS PROJECT: 10013664
TOTAL_PROJECT_AMT. IF AVAILABLE: 108,516
PROJECT YEARS: 1

Geography
Barnes, Jessica
Geographic and Sociodemographic Variability in Air Pollution Exposure
Sponsor: National Science Foundation (NSF)
PS PROJECT: 10013755
TOTAL_PROJECT_AMT. IF AVAILABLE: 144,474
PROJECT YEARS: 3

Mathematics
Wang, Qi
AI-enabled Mechanical Modeling of Cardiac Tissues
Sponsor: Clemson University/SC EPSCoR/SC CHE
PS PROJECT: 10013801
TOTAL_PROJECT_AMT. IF AVAILABLE: 25,000
PROJECT YEARS: 1

Political Science
Schoenherr, Jessica
Collaborative Research: Precedent-Altering Opinions and Collegiality on the Supreme Court
Sponsor: National Science Foundation (NSF)
PS PROJECT: 10013753
TOTAL_PROJECT_AMT. IF AVAILABLE: 74,803
PROJECT YEARS: 1
Psychology
Roberts, Jane
(PI - Rachel Hantman) Maternal - Child RSA Synchrony in Infants with Fragile X Syndrome  41,294
Sponsor: National Institute of Child Health & Human Development (NICHD)/NIH
PS PROJECT:  10013777
TOTAL_PROJECT_AMT. IF AVAILABLE:  123,882
PROJECT YEARS:  3

Weist, Mark
Technical Assistance Center on Positive Behavioral Interventions and Supports VI - Priority 1  81,037
Sponsor: University of Oregon/USDE
PS PROJECT:  10013512
TOTAL_PROJECT_AMT. IF AVAILABLE:  1,574,995
PROJECT YEARS:  5

Technical Assistance Center on Positive Behavioral Interventions and Supports VI - Priority 2  87,762
Sponsor: University of Oregon/USDE
PS PROJECT:  10013513
TOTAL_PROJECT_AMT. IF AVAILABLE:
PROJECT YEARS:  5

School of Earth, Ocean & Env.
Bourbonnais, Annie
Collaborative Research: Multi-isotope and microbial ecology approaches to investigate sedimentary nitrous oxide production and consumption in the northern Benguela upwelling system  473,433
Sponsor: National Science Foundation (NSF)
PS PROJECT:  10013737
TOTAL_PROJECT_AMT. IF AVAILABLE:
PROJECT YEARS:  3
Peng, Xuefeng (Nick)
Collaborative Research: Multi-isotope and microbial ecology approaches to investigate sedimentary nitrous oxide production and consumption in the northern Benguela upwelling system

Sponsor: National Science Foundation (NSF)
PS PROJECT: 10013738
TOTAL_PROJECT_AMT. IF AVAILABLE: 77,157
PROJECT YEARS: 3

Sociology
Brashears, Matthew
Simulating and predicting social behavior from exposure and interaction with similar others: A data collection initiative and model advancement project

Sponsor: US Army Research Office (ARO)/DOD
PS PROJECT: 10013747
TOTAL_PROJECT_AMT. IF AVAILABLE: 190,146
PROJECT YEARS: 2

College of Education
Educational & Developmental Science
Plotner, Tony
Project TEC: Technology to Enhance Careers

Sponsor: SC Commission of Higher Education
PS PROJECT: 10013749
TOTAL_PROJECT_AMT. IF AVAILABLE: 175,931
PROJECT YEARS: 1

Research, Eval., & Measurement
Ene, Mihaela
Evaluation of Florence County School District Three's Panther Reset School of Innovation Program

Sponsor: Florence County School District Three/SCDE
PS PROJECT: 10013736
TOTAL_PROJECT_AMT. IF AVAILABLE: 20,000
PROJECT YEARS: 1
Leighton, Elizabeth  
_Evaluation of Florence County School District Two's Innovation Grant Program: The Pee Dee Health Healthcare Workforce Ready Program_  
Sponsor: Florence County School District Two/SCDE  
PS PROJECT: 10013746  
TOTAL_PROJECT_AMT. IF AVAILABLE:  
PROJECT YEARS: 1  
30,000

Lewis, Ashlee  
_Impact Evaluation of ArtsNOW (23-24)_  
Sponsor: ArtsNOW (ArtsNOW Learning)  
PS PROJECT: 10013733  
TOTAL_PROJECT_AMT. IF AVAILABLE:  
PROJECT YEARS: 1  
40,000

**Teacher Education**  
**Baum, Angela**  
_PDG Planning Grant 2023_  
Sponsor: SC Department of Social Services (SCDSS)  
PS PROJECT: 10013642  
TOTAL_PROJECT_AMT. IF AVAILABLE:  
PROJECT YEARS: 1  
488,066

**College of Engineering & Comp.**  
**Chemical Engineering**  
**Meekins, Benjamin**  
_Material Leaching for Nuvera Fuel Cells, LLC - 5 Samples - February 2024_  
Sponsor: Nuvera Fuel Cells, LLC  
PS PROJECT: 10013804  
TOTAL_PROJECT_AMT. IF AVAILABLE:  
PROJECT YEARS: 1  
4,250
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<td>Machine Learning Assisted CdZnTeSe Semiconductor Nuclear Detectors for Real-Time Monitoring Spent Nuclear Fuel in Storage Casks</td>
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<td>What difference does it make? Learning from the stakeholders of the Weekend Food Program about their experiences of program participation</td>
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Xu, Yanfeng  
*Children with Disabilities: Increasing Kinship Caregivers’ Capacity and Improving Child Outcomes*  

**Sponsor:** University of North Carolina/The Duke Endowment  
- **PS PROJECT:** 10013520  
- **TOTAL_PROJECT_AMT. IF AVAILABLE:**  
- **PROJECT YEARS:** 5  

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*Multi-Site Randomized Controlled Trial of Better Futures Postsecondary Access Intervention for Youth in Foster Care*  

**Sponsor:** Washington State University/USDE  
- **PS PROJECT:** 10013775  
- **TOTAL_PROJECT_AMT. IF AVAILABLE:**  
- **PROJECT YEARS:** 1
Darla Moore School of Business

*Moore Sch - Div. of Research*

**Von Nessen, Joseph**

*Midlands Business Leadership Group: 2023-2024 Competitiveness Report*  
**Sponsor:** Midlands Business Leadership Group  
PS PROJECT: 10013750  
TOTAL_PROJECT_AMT. IF AVAILABLE:  
PROJECT YEARS: 1

**SCRA: Economic Impact Analysis - FY23**  
**Sponsor:** SC Research Authority (SCRA)  
PS PROJECT: 10013763  
TOTAL_PROJECT_AMT. IF AVAILABLE:  
PROJECT YEARS: 1

*Patriots Point: Economic Impact Analysis*  
**Sponsor:** Patriots Point  
PS PROJECT: 10013778  
TOTAL_PROJECT_AMT. IF AVAILABLE:  
PROJECT YEARS: 1

*Chernoff Newman: Century Aluminum Economic Impact Analysis*  
**Sponsor:** Chernoff Newman  
PS PROJECT: 10013780  
TOTAL_PROJECT_AMT. IF AVAILABLE:  
PROJECT YEARS: 1

*EDF Renewables: Economic Impact Analysis*  
**Sponsor:** EDF Renewables  
PS PROJECT: 10013796  
TOTAL_PROJECT_AMT. IF AVAILABLE:  
PROJECT YEARS: 1
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<td>Building Capacity to Counter Complex Crimes in Mongolia</td>
<td>The Asia Foundation (TAF)/DOS</td>
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Wasilczuk, Madalyn
South Carolina Deaths Behind Bars - Arnold Ventures 99,575

Sponsor: Arnold Ventures LLC (Laura and John Arnold Foundation)
PS PROJECT: 10013751
TOTAL_PROJECT_AMT. IF AVAILABLE: 
PROJECT YEARS: 3

School of Medicine

MDC Ctr Disability Resources
Rotholz, David
South Carolina Assistive Technology Program 205,318

Sponsor: Administration for Community Living/HHS
PS PROJECT: 10013754
TOTAL_PROJECT_AMT. IF AVAILABLE: 
PROJECT YEARS: 2

MDC Office of Dean
Rahemtullah, Omme-Salma
Culinary Medicine: Improving Health Outcomes through Clinical Partnerships and Referrals 50,000

Sponsor: SC Research Foundation (SCRF)/Prisma Health
PS PROJECT: 10013794
TOTAL_PROJECT_AMT. IF AVAILABLE: 
PROJECT YEARS: 1

University of SC Aiken

AK Mathematical Sciences
Paul, Titan
Exploring Thermophysical Properties of Ionic Liquids (ILs) based Nanofluids using Machine Learning Techniques for Solar Thermal Applications 49,958

Sponsor: CORE SC at College of Charleston
PS PROJECT: 10013787
TOTAL_PROJECT_AMT. IF AVAILABLE: 
PROJECT YEARS: 1
AK School of Business

Fawaz, Fadi

Savannah River National Laboratory: Economic Impact on Aiken, Allendale, Barnwell, Columbia, and Richmond Counties

Sponsor: Savannah River National Laboratory (SRNL)/DOE
PS PROJECT: 10013803
TOTAL_PROJECT_AMT. IF AVAILABLE: 92,658
PROJECT YEARS: 1

University of SC Upstate

UPS Human Perform and Hlth

Saracino, Patrick

The Effects of High Intensity Endless Rope Compared to Battle Rope Training on Reaction Time and Physical Performance

Sponsor: Axios, LLC
PS PROJECT: 10013798
TOTAL_PROJECT_AMT. IF AVAILABLE: 18,662
PROJECT YEARS: 1

Report Total: $4,276,768