

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

February, 2024 New Awards

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**Arnold School of Public Health**

***Applied Research & Evaluation (CARE)***

**Workman, Lauren**

SC MIECHV FY23 Coordinated State Evaluation (2023-2025) 150,896

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

PS PROJECT: 10013781

TOTAL\_PROJECT\_AMT. IF AVAILABLE:

PROJECT YEARS: 2

***Communication Sci & Disorders***

**Bonilha, Heather**

Excess Radiation Exposure in Infants and Children From Videofluoroscopic Swallow Studies 385,871

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

PS PROJECT: 10013785

TOTAL\_PROJECT\_AMT. IF AVAILABLE:

PROJECT YEARS: 5

**Fridriksson, Julius**

Neural Bases of Vocal Sensorimotor Impairment in Aphasia - Subaward 89,195

**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 211,887

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

PS PROJECT: 10013761

TOTAL\_PROJECT\_AMT. IF AVAILABLE: 374,500

PROJECT YEARS: 2

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**Epidemiology & Biostatistics**

**Perumal, Nandita**

*Demonstrating non-inferiority of a lower dose (500 mg) calcium supplementation during pregnancy for reducing preeclampsia (PE) and neonatal outcomes* 13,219

**Sponsor:** Harvard University/Bill & Melinda Gates Foundation

PS PROJECT: 10013793

TOTAL\_PROJECT\_AMT. IF AVAILABLE:

PROJECT YEARS: 1

**Exercise Science**

**Arent, Shawn**

*High-Intensity Functional Training Adaptations with and without Maximus Ventilatory Training Device* 11,011

**Sponsor:** Neo-Ventures LLC, DBA MAXIMUS

PS PROJECT: 10013779

TOTAL\_PROJECT\_AMT. IF AVAILABLE:

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* 2,514

**Sponsor:** Every Meal

PS PROJECT: 10013791

TOTAL\_PROJECT\_AMT. IF AVAILABLE:

PROJECT YEARS: 1

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**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* 13,092

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

PS PROJECT: 10013783  
TOTAL\_PROJECT\_AMT. IF AVAILABLE:  
PROJECT YEARS: 2

*Using complex systems methods to co-produce solutions for how emergency food assistance can prioritise healthy foods for vulnerable populations in Lebanon/FCDO* 13,092

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

PS PROJECT: 10013792  
TOTAL\_PROJECT\_AMT. IF AVAILABLE:  
PROJECT YEARS: 2

**Rahemtullah, Omme-Salma**

*CDBG Grant: NeighborShare* 51,435

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

PS PROJECT: 10013315  
TOTAL\_PROJECT\_AMT. IF AVAILABLE: 71,540  
PROJECT YEARS: 1

**Thrasher, James**

*Advancing Tobacco Regulatory Science to Reduce Health Disparities: Advancing Communication Science to Reduce Disparities in Young Adult Cigar Use* 27,182

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

PS PROJECT: 10013764  
TOTAL\_PROJECT\_AMT. IF AVAILABLE: 191,414  
PROJECT YEARS: 5

**Health Services Policy & Mgmt**

**Andrews, Christina**

*South Carolina Center for Excellence in Addiction – General Assembly* 29,688

**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

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**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 ServicesXX*

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

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***Criminology & Criminal Justice***

**Adams, Ian**

*Institutional Structure of Police Leadership*

97,624

**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*

144,474

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

PS PROJECT: 10013755

TOTAL\_PROJECT\_AMT. IF AVAILABLE:

PROJECT YEARS: 3

***Mathematics***

**Wang, Qi**

*AI-enabled Mechanical Modeling of Cardiac Tissues*

25,000

**Sponsor:** Clemson University/SC EPSCoR/SC CHE

PS PROJECT: 10013801

TOTAL\_PROJECT\_AMT. IF AVAILABLE:

PROJECT YEARS: 1

***Political Science***

**Schoenherr, Jessica**

*Collaborative Research: Precedent-Altering Opinions and Collegiality on the Supreme Court*

74,803

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

PS PROJECT: 10013753

TOTAL\_PROJECT\_AMT. IF AVAILABLE:

PROJECT YEARS: 1

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**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

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**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*

77,157

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

PS PROJECT: 10013738

TOTAL\_PROJECT\_AMT. IF AVAILABLE:

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*

190,146

**Sponsor:** US Army Research Office (ARO)/DOD

PS PROJECT: 10013747

TOTAL\_PROJECT\_AMT. IF AVAILABLE:

PROJECT YEARS: 2

**College of Education**

**Educational & Developmental Science**

**Plotner, Tony**

*Project TEC: Technology to Enhance Careers*

175,931

**Sponsor:** SC Commission of Higher Education

PS PROJECT: 10013749

TOTAL\_PROJECT\_AMT. IF AVAILABLE:

PROJECT YEARS: 1

**Research, Eval., & Measurement**

**Ene, Mihaela**

*Evaluation of Florence County School District Three's Panther Reset School of Innovation Program*

20,000

**Sponsor:** Florence County School District Three/SCDE

PS PROJECT: 10013736

TOTAL\_PROJECT\_AMT. IF AVAILABLE:

PROJECT YEARS: 1

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**Leighton, Elizabeth**

*Evaluation of Florence County School District Two's Innovation Grant Program: The Pee Dee Health Healthcare Workforce Ready Program* 30,000

**Sponsor:** Florence County School District Two/SCDE

PS PROJECT: 10013746

TOTAL\_PROJECT\_AMT. IF AVAILABLE:

PROJECT YEARS: 1

**Lewis, Ashlee**

*Impact Evaluation of ArtsNOW (23-24)* 40,000

**Sponsor:** ArtsNOW (ArtsNOW Learning)

PS PROJECT: 10013733

TOTAL\_PROJECT\_AMT. IF AVAILABLE:

PROJECT YEARS: 1

**Teacher Education**

**Baum, Angela**

*PDG Planning Grant 2023* 488,066

**Sponsor:** SC Department of Social Services (SCDSS)

PS PROJECT: 10013642

TOTAL\_PROJECT\_AMT. IF AVAILABLE:

PROJECT YEARS: 1

**College of Engineering & Comp.**

**Chemical Engineering**

**Meekins, Benjamin**

*Material Leaching for Nuvera Fuel Cells, LLC - 5 Samples - February 2024* 4,250

**Sponsor:** Nuvera Fuel Cells, LLC

PS PROJECT: 10013804

TOTAL\_PROJECT\_AMT. IF AVAILABLE:

PROJECT YEARS: 1



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**Computer Science & Engineering**

**Huhns, Michael**

*Information Competition Simulator Project* 10,000

**Sponsor:** University of Maryland/ARLIS/DOD

PS PROJECT: 10013799

TOTAL\_PROJECT\_AMT. IF AVAILABLE:

PROJECT YEARS: 1

*Information Competition Simulator Project - Project 1* 49,957

**Sponsor:** University of Maryland/ARLIS/DOD

PS PROJECT: 10013800

TOTAL\_PROJECT\_AMT. IF AVAILABLE:

PROJECT YEARS: 1

**Electrical Engineering**

**Mandal, Krishna**

*Machine Learning Assisted CdZnTeSe Semiconductor Nuclear Detectors for Real-Time Monitoring Spent Nuclear Fuel in Storage Casks* 50,000

**Sponsor:** CORE SC at College of Charleston

PS PROJECT: 10013776

TOTAL\_PROJECT\_AMT. IF AVAILABLE:

PROJECT YEARS: 1

**College of Social Work**

**Social Work - Dean's Office**

**Fram, Maryah**

*What difference does it make? Learning from the stakeholders of the Weekend Food Program about their experiences of program participation* 27,406

**Sponsor:** Every Meal

PS PROJECT: 10013790

TOTAL\_PROJECT\_AMT. IF AVAILABLE:

PROJECT YEARS: 1

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**Xu, Yanfeng**

*Children with Disabilities: Increasing Kinship Caregivers' Capacity and Improving Child Outcomes* 83,596

**Sponsor:** University of North Carolina/The Duke Endowment

PS PROJECT: 10013520

TOTAL\_PROJECT\_AMT. IF AVAILABLE:

PROJECT YEARS: 5

*Multi-Site Randomized Controlled Trial of Better Futures Postsecondary Access Intervention for Youth in Foster Care* 21,996

**Sponsor:** Washington State University/USDE

PS PROJECT: 10013775

TOTAL\_PROJECT\_AMT. IF AVAILABLE:

PROJECT YEARS: 1

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**Darla Moore School of Business**

**Moore Sch - Div. of Research**

**Von Nessen, Joseph**

*Midlands Business Leadership Group: 2023-2024 Competitiveness Report* 25,000

**Sponsor:** Midlands Business Leadership Group

PS PROJECT: 10013750

TOTAL\_PROJECT\_AMT. IF AVAILABLE:

PROJECT YEARS: 1

*SCRA: Economic Impact Analysis - FY23* 10,000

**Sponsor:** SC Research Authority (SCRA)

PS PROJECT: 10013763

TOTAL\_PROJECT\_AMT. IF AVAILABLE:

PROJECT YEARS: 1

*Patriots Point: Economic Impact Analysis* 52,500

**Sponsor:** Patriots Point

PS PROJECT: 10013778

TOTAL\_PROJECT\_AMT. IF AVAILABLE:

PROJECT YEARS: 1

*Chernoff Newman: Century Aluminum Economic Impact Analysis* 38,500

**Sponsor:** Chernoff Newman

PS PROJECT: 10013780

TOTAL\_PROJECT\_AMT. IF AVAILABLE:

PROJECT YEARS: 1

*EDF Renewables: Economic Impact Analysis* 34,500

**Sponsor:** EDF Renewables

PS PROJECT: 10013796

TOTAL\_PROJECT\_AMT. IF AVAILABLE:

PROJECT YEARS: 1

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*Michelin North America: Economic Impact Analysis* 80,000

**Sponsor:** Michelin North America, Inc.

PS PROJECT: 10013805

TOTAL\_PROJECT\_AMT. IF AVAILABLE:

PROJECT YEARS: 2

**Koger Center**

***Koger Center***

**Magradey, Karen**

*SC Arts Commission FY24 Operating Support*

29,889

**Sponsor:** SC Arts Commission

PS PROJECT: 10013797

TOTAL\_PROJECT\_AMT. IF AVAILABLE:

PROJECT YEARS: 1

**Office of the Provost**

***Provost***

**Gibson, Robert**

*Anne Frank and the Art of Storytelling Leadership Camp (AFASLC)*

5,000

**Sponsor:** SC Humanities/NEH

PS PROJECT: 10013788

TOTAL\_PROJECT\_AMT. IF AVAILABLE:

PROJECT YEARS: 1

**School of Law**

***Law - Dean's Office***

**Samuels, Joel**

*Building Capacity to Counter Complex Crimes in Mongolia*

42,600

**Sponsor:** The Asia Foundation (TAF)/DOS

PS PROJECT: 10013786

TOTAL\_PROJECT\_AMT. IF AVAILABLE:

PROJECT YEARS: 1

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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

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**AK School of Business**

**Fawaz, Fadi**

*Savannah River National Laboratory: Economic Impact on Aiken, Allendale, Barnwell,  
Columbia, and Richmond Counties* 92,658

**Sponsor:** Savannah River National Laboratory (SRNL)/DOE

PS PROJECT: 10013803

TOTAL\_PROJECT\_AMT. IF AVAILABLE:

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* 18,662

**Sponsor:** Axios, LLC

PS PROJECT: 10013798

TOTAL\_PROJECT\_AMT. IF AVAILABLE:

PROJECT YEARS: 1

**Report Total: \$4,276,768**