Arnold School of Public Health

Communication Sci & Disorders

Adlof, Suzanne

Measuring Language Comprehension Development in the Primary Grades

Sponsor: National Institute on Deafness & Other Communication Disorders (NIDCD)/NIH

PS PROJECT: 10013205
TOTAL_PROJECT_AMT. IF AVAILABLE: 3,217,918
PROJECT YEARS: 5

Epidemiology & Biostatistics

Cai, Bo

Innovative approach to assess the effect of metal mixtures from infant meconium associated with adverse infant outcome by identifying methylation loci in mothers and infants

Sponsor: City University of New York (CUNY)/EPA

PS PROJECT: 10013179
TOTAL_PROJECT_AMT. IF AVAILABLE:
PROJECT YEARS: 1

Lohman, Matthew

Long Acting Injectable Antipsychotic Medication in the Patient Population of the South Carolina Department of Mental Health

Sponsor: SC Department of Mental Health (SCDMH) - Ensor Trust

PS PROJECT: 10012970
TOTAL_PROJECT_AMT. IF AVAILABLE:
PROJECT YEARS: 1

Health Prom., Educ. & Behavior

Larson, Leila

(Fahmida Akter - PI) Consultancy for the Joint Interventions to Improve Birth Outcomes and Nutrition Research Project in Bangladesh

Sponsor: International Food Policy Research Institute (IFPRI)/Bill and Melinda Gates Foundation

PS PROJECT: 10012935
TOTAL_PROJECT_AMT. IF AVAILABLE:
PROJECT YEARS: 2
Office of Research
IT and Data Management Office
July, 2023   New Awards

College of Arts and Sciences

Archaeology & Anthropology
Fisher, John
2023 Watts Cemetery: Interior GPR Survey 3,765
Sponsor: Culture and Heritage Museums (York County, SC)
PS PROJECT: 10013203
TOTAL_PROJECT_AMT. IF AVAILABLE:
PROJECT YEARS: 1

Baruch Institute

Smith, Erik
North Inlet - Winyah Bay National Estuarine Research Reserve FY23 Operations Award 991,213
Sponsor: National Ocean Service (NOS)/NOAA/DOC
PS PROJECT: 10013226
TOTAL_PROJECT_AMT. IF AVAILABLE:
PROJECT YEARS: 1

Political Science

Heinrich, Tobias
Learning to Trust Refugees: Border Security and Attitude Extremity 3,500
Sponsor: The Institute for Humane Studies (IHS)
PS PROJECT: 10013158
TOTAL_PROJECT_AMT. IF AVAILABLE:
PROJECT YEARS: 1

Psychology

Coffman, Donna
Characterizing Top-Down Dimensions of Appetite Self-Regulation Among Preschoolers 12,401
Sponsor: Temple University/NICHD/NIH
PS PROJECT: 10013166
TOTAL_PROJECT_AMT. IF AVAILABLE: 24,802
PROJECT YEARS: 2
Prinz, Ron

Behavioral-Biomedical Interface: Translational and Prevention Sciences Training

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

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<td>1,538,552</td>
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School of Earth, Ocean & Env.

Bulusu, Subrahmanyam

Understanding the Generation and Dynamics of Internal Waves in the Bay of Bengal using NASA’s SMAP Salinity and ECCO Estimates

Sponsor: College of Charleston (SC EPSCoR)/NASA

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College of Engineering & Comp.

Chemical Engineering

Lauterbach, Jochen

Fuel Flexible Gas Turbine Technology Integrated with Exhaust Gas Recirculation and Hydrogen Carrier Fuels

Sponsor: Office of Naval Research (ONR)/DOD

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Meekins, Benjamin

Nuvera Sample Measurement Study - Nuvera Fuel Cells -- May 2023 (4 samples)

Sponsor: Nuvera Fuel Cells, LLC

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Shimpalee, Sirivatch  
*Development of a Biosensor for Monitoring of Iodine in Environmental Media in F-Area, Savannah River Site*  
Sponsor: University of Nevada Las Vegas (UNLV)/SRNL/DOE  
| PS PROJECT: | 10013187 |  |
| TOTAL_PROJECT_AMT. IF AVAILABLE: |  |
| PROJECT YEARS: | 1 |  |

**Computer Science & Engineering**  
Hu, Jianjun  
*Collaborative Research: Elements: Phonon Database Generation, Analysis, and Visualization for Data Driven Materials Discovery*  
Sponsor: National Science Foundation (NSF)  
| PS PROJECT: | 10013216 |  |
| TOTAL_PROJECT_AMT. IF AVAILABLE: |  |
| PROJECT YEARS: | 3 |  |

Narayanan, Vignesh  
*Collaborative Autonomy in Uncertain Environments: Exploring Vistas Beyond Consensus*  
Sponsor: University of Alabama - Huntsville/NSWC/ONR/DOD  
| PS PROJECT: | 10013202 |  |
| TOTAL_PROJECT_AMT. IF AVAILABLE: | 218,914 |  |
| PROJECT YEARS: | 3 |  |

**Electrical Engineering**  
Wang, Guoan  
*DURIP: ENACT- Enabling Next Adaptive Communication Technologies*  
Sponsor: Office of Naval Research (ONR)/DOD  
| PS PROJECT: | 10013229 |  |
| TOTAL_PROJECT_AMT. IF AVAILABLE: |  |
| PROJECT YEARS: | 1 |  |
Mechanical Engineering
Banerjee, Sourav
Develop a Smart Vision and AI-driven Peach Thinning Software (A-EYE) 20,000
Sponsor: Advent Innovations Limited Company/USDA
PS PROJECT: 10013221
TOTAL_PROJECT_AMT. IF AVAILABLE:
PROJECT YEARS: 1

Hu, Ming
Collaborative Research: Elements: Phonon Database Generation, Analysis, and Visualization for Data Driven Materials Discovery 270,000
Sponsor: National Science Foundation (NSF)
PS PROJECT: 10013217
TOTAL_PROJECT_AMT. IF AVAILABLE: 400,000
PROJECT YEARS: 3

Huang, Xinyu
Advanced Characterization of Accident Tolerant Silicon Carbide Cladding 165,532
Sponsor: General Atomics/DOE
PS PROJECT: 10013132
TOTAL_PROJECT_AMT. IF AVAILABLE:
PROJECT YEARS: 1

Won, Sang Hee
Fuel Flexible Gas Turbine Technology Integrated with Exhaust Gas Recirculation and Hydrogen Carrier Fuels 453,201
Sponsor: Office of Naval Research (ONR)/DOD
PS PROJECT: 10013138
TOTAL_PROJECT_AMT. IF AVAILABLE: 2,000,000
PROJECT YEARS: 4

Yuan, Lang
(PI: Jan Garey Weaver) - 3D Printing of Tungsten via Laser Powder Bed Fusion Additive Manufacturing 7,500
Sponsor: College of Charleston/SC Space Grant Consortium/NASA EPSCoR
PS PROJECT: 10013141
TOTAL_PROJECT_AMT. IF AVAILABLE:
PROJECT YEARS: 1
College of Nursing

**Nursing**
Raynor, Phyllis

*Leveraging Data to Promote Health Equity: Assessing maternal health outcomes during the 4th trimester for women with substance use disorders receiving perinatal care at the Magdalene Clinic*

*Sponsor:* Prisma Health - Upstate  
PS PROJECT: 10013164  
TOTAL_PROJECT_AMT. IF AVAILABLE:  
PROJECT YEARS: 1  

20,000

College of Pharmacy

**Drug Discovery & Biomed Sci.**
McInnes, Campbell

*Developing novel LOX inhibitors to target chemotherapy resistant TNBC*

*Sponsor:* Loxigen, Inc./NCI/NIH  
PS PROJECT: 10013178  
TOTAL_PROJECT_AMT. IF AVAILABLE:  
PROJECT YEARS: 1  

81,902

**Pharm - Clin Pharm & Outcomes Sciences**
Weant, Kyle

*Intelligent Nursing Dispensing Education in the Emergency Department (IN DEED)*

*Sponsor:* SC Research Authority (SCRA)  
PS PROJECT: 10013137  
TOTAL_PROJECT_AMT. IF AVAILABLE:  
PROJECT YEARS: 1  

15,000
College of Social Work

**Child and Family Studies, Center for**

**Sullivan, Rebecca**

*First 5 SC Website Training Proposal*  

**Sponsor:** SC First Steps  

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Darla Moore School of Business

**Moore Sch - Div. of Research**

**Von Nessen, Joseph**

*CMMC Navy Yard Industrial Campus: Economic Impact Analysis*  

**Sponsor:** CMMC Navy Yard Industrial Campus  

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**ACEC-SC: Infrastructure Investments in SC**  

**Sponsor:** American Council of Engineering Companies of South Carolina (ACEC-SC)  

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Economic Engagement

**Ofc of Economic Engagement**

**Hardaway, Chad**

*USC Upstate Innovation Experience Hub for Manufacturing*  

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

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Office of Research
IT and Data Management Office
July, 2023   New Awards

School of Medicine

**MDC CLINICAL AFFAIRS**

Weis, Megan

*Scope and Impact of the Unknowingly Insured Patient Population of SC Free Clinics*

**Sponsor:** SC Free Clinic Association/SC BCBS Foundation

PS PROJECT: 10013144

TOTAL_PROJECT_AMT. IF AVAILABLE: 38,161

PROJECT YEARS: 1

**MDC Ctr Disability Resources**

Rotholz, David

*SC Developmental Disability Council Professional Services*

**Sponsor:** SC Developmental Disability Council/ACL/HHS

PS PROJECT: 10013156

TOTAL_PROJECT_AMT. IF AVAILABLE: 26,799

PROJECT YEARS: 1

**Path, Microbio. & Immunology**

Murphy, Elizabeth (Angela)

*(Pl: Thomas Cardaci) Impact of Obesity on Chemotherapy-Induced Muscle Mitochondrial Dysfunction*

**Sponsor:** National Cancer Institute (NCI)/NIH

PS PROJECT: 10013142

TOTAL_PROJECT_AMT. IF AVAILABLE: 111,219

PROJECT YEARS: 3

**Pharm., Physiology & Neuroscience**

Reagan, Lawrence

*VA personal service contract for rodent analysis*

**Sponsor:** US Department of Veterans Affairs (VA)

PS PROJECT: 10013201

TOTAL_PROJECT_AMT. IF AVAILABLE: 74,485

PROJECT YEARS: 1
## School of Medicine (Grvl)

**Medicine Greenville**

### Roudebush, William

**Evaluation of a Novel Sperm Fertility Cycle Marker in IVF Patients undergoing Intra-Cytoplasmic Sperm Injection**

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## University of SC Aiken

**AK Ruth Patrick Sci Ed**

### Senn, Gary

**Science & Technology Enrichment Program (STEP) SRNS**

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## University of SC Beaufort

**BFT Humanities**

### Villena-Alvarez, Juanita

**USCB South Korean and Asian Literacy Education (SKALE)**

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University of SC Upstate

UPS Lang, Literature & Comp.

Godfrey, Esther

*One Foot in Eden: Preface 2023*

**Sponsor:** SC Humanities/NEH

PS PROJECT: 10013227
TOTAL_PROJECT_AMT. IF AVAILABLE:
PROJECT YEARS: 1

Report Total: $4,470,431