Arnold School of Public Health

Applied Research & Evaluation (CARE)
Gillam, Pamela

*Child Well Being Coalition-- Gap Analysis- Developmental Screening*

**Sponsor:** Bureau of Maternal and Child Health, Child Well Being Coalition - SC Department of Health & Environmental Control DHEC

- **PS PROJECT:** 10012797
- **TOTAL_PROJECT_AMT. IF AVAILABLE:** 27,500
- **PROJECT YEARS:** 1

Center for Community Health Alignment

Smithwick, Julie

*Community Health Workers Changing Outcomes in South Carolina (Year 2) - CCHA*

**Sponsor:** South Carolina Department of Health and Human Services (SCDHH)

- **PS PROJECT:** 10012658
- **TOTAL_PROJECT_AMT. IF AVAILABLE:** 1,900,000
- **PROJECT YEARS:** 1

Epidemiology & Biostatistics

Nolan, Melissa

*CK19-1904 Epidemiology and Laboratory Capacity for Prevention and Control of Emerging Infectious Diseases (ELC)*

**Sponsor:** SC Department of Health & Environmental Control (DHEC)

- **PS PROJECT:** 10012740
- **TOTAL_PROJECT_AMT. IF AVAILABLE:** 89,996
- **PROJECT YEARS:** 1

Steck, Susan

*Cause and Effect Relationships Between Glycation and the Ancestry Specific Tumor Stroma*

**Sponsor:** Virginia Commonwealth University/NCI/NIH

- **PS PROJECT:** 10012759
- **TOTAL_PROJECT_AMT. IF AVAILABLE:** 66,065
- **PROJECT YEARS:** 5
Exercise Science

Weaver, Glenn
(PI - James White) Utility and feasibility of activity type to augment consumer wearable-based estimates of physical activity energy expenditure using heart rate and movement in children  

Sponsor: National Institute of Diabetes & Digestive and Kidney Diseases (NIDDK)/NIH  
TOTAL_PROJECT_AMT. IF AVAILABLE: 122,622  
PROJECT YEARS: 3

West, Delia
Addressing Rural Health Disparities by Optimizing "High Touch" Intervention Components in Digital Obesity Treatment  

Sponsor: National Institute of Diabetes & Digestive and Kidney Diseases (NIDDK)/NIH  
PS PROJECT: 10012743  
TOTAL_PROJECT_AMT. IF AVAILABLE: 3,360,071  
PROJECT YEARS: 5

Yeargin, Susan
The Association Between Central Nervous System Function and Core Body Temperature in Exertional Heat Stroke Patients  

Sponsor: Mid-Atlantic Athletic Trainers' Association (MAATA)  
PS PROJECT: 10012769  
TOTAL_PROJECT_AMT. IF AVAILABLE:  
PROJECT YEARS: 1

Health Prom., Educ. & Behavior

Draper, Carrie
Share Our Strength’s No Kid Hungry Campaign  

Sponsor: Share Our Strength  
PS PROJECT: 10012766  
TOTAL_PROJECT_AMT. IF AVAILABLE:  
PROJECT YEARS: 1
Li, Xiaoming

*Nigeria Subcontract*

**Sponsor:** Centre for Integrated Health Programs (CIHP)/CDC

- PS PROJECT: 10012749
- TOTAL_PROJECT_AMT. IF AVAILABLE: 83,288
- PROJECT YEARS: 1

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Rudisill, Anne

*Consortium Coordinating Center for Social, Behavioral, and Economic Research on COVID-19*

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

- PS PROJECT: 10012773
- TOTAL_PROJECT_AMT. IF AVAILABLE: 29,964
- PROJECT YEARS: 1

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Utilizing Prisma Health’s PLACES (Providing Linkages And Connections to External Social Support Services) Hub to Improve Health in Communities

**Sponsor:** Prisma Health-Upstate/Duke Endowment

- PS PROJECT: 10012799
- TOTAL_PROJECT_AMT. IF AVAILABLE: 
- PROJECT YEARS: 1

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**Health Services Policy & Mgmt**

OLATOSI, BANKOLE

*Nigeria Subcontract*

**Sponsor:** Centre for Integrated Health Programs (CIHP)/CDC

- PS PROJECT: 10012750
- TOTAL_PROJECT_AMT. IF AVAILABLE: 
- PROJECT YEARS: 1

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PASOS

Lubov, Mayra

*Community Health Workers Changing Outcomes in South Carolina (Year 2) - PASOS*

**Sponsor:** South Carolina Department of Health and Human Services (SCDHHS)

- PS PROJECT: 10012660
- TOTAL_PROJECT_AMT. IF AVAILABLE: 
- PROJECT YEARS: 1
Colloge of Arts and Sciences

Archaeology & Anthropology

Fisher, John

2023 Watts Cemetery Survey, Historic Brattonsville, SC  4,847

Sponsor: Cultural & Heritage Museums, York County, South Carolina
PS PROJECT: 10012772
TOTAL_PROJECT_AMT. IF AVAILABLE:  
PROJECT YEARS: 1

King, Adam

Archaeological Investigations at Rose Hill Plantation  22,590

Sponsor: SC Parks, Recreation & Tourism (SCPRT)
PS PROJECT: 10012791
TOTAL_PROJECT_AMT. IF AVAILABLE:  
PROJECT YEARS: 1

Smith, Steven

Archaeological Survey of the Koni Aawaa’, Tupelo, MS  5,980

Sponsor: The Chickasaw Nation
PS PROJECT: 10012765
TOTAL_PROJECT_AMT. IF AVAILABLE:  
PROJECT YEARS: 1

BARUCH COASTAL LABORATORY

Snyder, Maeve

Evaluating risk of tidal marsh inundation and monetizing services to prioritize management actions  6,643

Sponsor: University of Georgia/NOAA/DOC
PS PROJECT: 10012782
TOTAL_PROJECT_AMT. IF AVAILABLE:  
PROJECT YEARS: 1
Biological Sciences
Welshhans, Kristy
Regulating axon guidance through local translation at adhesions 374,933

Sponsor: National Institute of Neurological Disorders & Stroke (NINDS)/NIH
PS PROJECT: 10012792
TOTAL_PROJECT_AMT. IF AVAILABLE: 1,872,670
PROJECT YEARS: 5

Criminology & Criminal Justice
Alpert, Geoffrey
Charleston Police Department Racial Bias Audit Implementation: A Proposal to Conduct a Formal, External Review and Assessment (ERA) of Progress 72,930

Sponsor: Charleston Police Department/City of Charleston
PS PROJECT: 
TOTAL_PROJECT_AMT. IF AVAILABLE: 
PROJECT YEARS: 1

Geography
Li, Zhenlong
Consortium Coordinating Center for Social, Behavioral, and Economic Research on COVID-19 969

Sponsor: University of Michigan/NIA/NIH
PS PROJECT: 10012780
TOTAL_PROJECT_AMT. IF AVAILABLE: 29,948
PROJECT YEARS: 1

Languages, Literatures, & Cult.
Liu, Jiang
Doctoral Dissertation Research: The Semantic Effect on the Processing of Emotional Prosody in a tone language: A Neurolinguistic Study (Cheng Xiao) 17,880

Sponsor: National Science Foundation (NSF)
PS PROJECT: 10012744
TOTAL_PROJECT_AMT. IF AVAILABLE: 
PROJECT YEARS: 2
Psychology
Hudac, Caitlin
*Evaluation of the Underlying Structure of Adolescent Social Attention*  
**Sponsor:** University of Alabama/NIMH/NIH  
PS PROJECT:  
TOTAL_PROJECT_AMT. IF AVAILABLE: 82,283  
PROJECT YEARS: 1

Religious Studies
Mitchem, Stephanie
*Women and Gender Studies: Past into Future*  
**Sponsor:** South Carolina Humanities/NEH  
PS PROJECT: 10012747  
TOTAL_PROJECT_AMT. IF AVAILABLE:  
PROJECT YEARS: 1

Statistics
Wang, Lianming
*Developing natural compound emodin as a therapy for alcoholic cardiomyopathy*  
**Sponsor:** AcePre, LLC/NIH  
PS PROJECT: 10012785  
TOTAL_PROJECT_AMT. IF AVAILABLE:  
PROJECT YEARS: 1

College of Education
Education - Dean’s Office
Berry, Barnett
*Teacher Leadership for Whole Child Education*  
**Sponsor:** Stuart Foundation  
PS PROJECT: 10012770  
TOTAL_PROJECT_AMT. IF AVAILABLE:  
PROJECT YEARS: 1
College of Engineering & Comp.

Chemical Engineering
Lauterbach, Jochen
Next-Generation Ammonia System Integration Utilizing Intermittent Renewable Power (REFUEL Integrations & Testing Program) 160,038
Sponsor: State University of New York (SUNY) at Buffalo/(ARPA-E)/ DOE
PS PROJECT: 10012779
TOTAL_PROJECT_AMT. IF AVAILABLE: 320,000
PROJECT YEARS: 2

Meekins, Benjamin
Ionomer and Membrane Testing (Nissan Chem / Paradign Service Work) 36,000
Sponsor: Nissan Chemical America Corporation and Paradigm Energy
PS PROJECT: 10012763
TOTAL_PROJECT_AMT. IF AVAILABLE:
PROJECT YEARS: 1

Civil & Environmental Eng.
Berge, Nicole
PFI-TT: Reactive biofilm surfaces for efficient nitrogen management in liquid waste streams 23,472
Sponsor: University of Utah/NSF
PS PROJECT: 10012745
TOTAL_PROJECT_AMT. IF AVAILABLE:
PROJECT YEARS: 2

Computer Science & Engineering
Mohammadzand, Ramtin
Design and Implementation of Hardware Accelerator for Zero-Knowledge Cryptography 84,806
Sponsor: ZKFlash Labs, Inc.
PS PROJECT: 10012762
TOTAL_PROJECT_AMT. IF AVAILABLE:
PROJECT YEARS: 1
Zhang, Qi  
**CAREER: Identifying and Exploiting Multi-Agent Symmetries**  
**Sponsor:** National Science Foundation (NSF)  
PS PROJECT: 10012764  
TOTAL_PROJECT_AMT. IF AVAILABLE: 535,346  
PROJECT YEARS: 5  

**Electrical Engineering**  
Simin, Grigory  
**STEM-Quantum Channel High Breakdown Voltage HEMT**  
**Sponsor:** Rensselaer Polytechnic Institute/ONR  
PS PROJECT: 10012798  
TOTAL_PROJECT_AMT. IF AVAILABLE: 300,000  
PROJECT YEARS: 3  

**Mechanical Engineering**  
Harik, Ramy  
**neXt USC-Trane Facility Planning**  
**Sponsor:** Trane Technologies Company, LLC  
PS PROJECT: 10012746  
TOTAL_PROJECT_AMT. IF AVAILABLE:  
PROJECT YEARS: 1  

Huang, Xinyu  
**Fundamental study of the stability and corrosion resistance of fluxless solder joint in lithium-ion battery**  
**Sponsor:** Soteria Battery Innovation Group  
PS PROJECT: 10012758  
TOTAL_PROJECT_AMT. IF AVAILABLE:  
PROJECT YEARS: 1  

Ling, Yue (Stanley)  
**CAREER: Impact of Inlet Conditions on Interfacial Instability and Spray Formation: High-Fidelity Simulation, Characterization, and Sub-Grid Modeling**  
**Sponsor:** National Science Foundation (NSF)  
PS PROJECT:  
TOTAL_PROJECT_AMT. IF AVAILABLE: 332,469  
PROJECT YEARS: 3
College of Nursing

Nursing
Andrews, Jeanette

Nursing Leadership Training

Sponsor: SC Department of Health & Environmental Control (DHEC)

PS PROJECT: 10012739
TOTAL_PROJECT_AMT. IF AVAILABLE: 122,400
PROJECT YEARS: 1

Corbett, Cynthia

South Carolina Nursing Assistant Program (SCNAP)

Sponsor: SC Department of Health & Environmental Control (DHEC)/CDC

PS PROJECT: 10012790
TOTAL_PROJECT_AMT. IF AVAILABLE: 740,015
PROJECT YEARS: 2

Darla Moore School of Business

Moore Sch - Div. of Research
Von Nessen, Joseph

SC Dept. of Commerce: Economic Impact Analysis of Project Connect

Sponsor: SC Department of Commerce

PS PROJECT: 10012801
TOTAL_PROJECT_AMT. IF AVAILABLE: 15,000
PROJECT YEARS: 1
Division of Student Affairs

Substance Abuse and Prevention
Hourigan, Aimee

Harm Reduction Services - Federal
Sponsor: SC Department of Alcohol & Other Drug Abuse Services/SAMHSA/HHS

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Harm Reduction Services - State
Sponsor: SC Department of Alcohol and Other Drug Abuse Services

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Economic Engagement

Ofc of Economic Engagement
Hardaway, Chad

South Carolina Rising: A New Pre-Seed/Seed Fund
Sponsor: SC Department of Commerce (SCDOC)

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School of Medicine

Basic Science Research
Spinale, Francis

Fibroblast targeting for myocardial repair
Sponsor: National Heart, Lung & Blood Institute (NHLBI)/NIH

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Cell Biology & Anatomy
Carver, Wayne
Developing natural compound emodin as a therapy for alcoholic cardiomyopathy 193,671

Sponsor: AcePre, LLC/NIH
PS PROJECT: 10012783
TOTAL_PROJECT_AMT. IF AVAILABLE: 217,254
PROJECT YEARS: 1

Family & Preventive Medicine
Bennett, Kevin
Community Health Workers Changing Outcomes in South Carolina (Year 2) - SCRPH 66,450

Sponsor: South Carolina Department of Health and Human Services (SCDHHS)
PS PROJECT: 10012659
TOTAL_PROJECT_AMT. IF AVAILABLE:
PROJECT YEARS:


Sponsor: Clemson University/NLM/NIH
PS PROJECT: 10012781
TOTAL_PROJECT_AMT. IF AVAILABLE: 70,076
PROJECT YEARS: 5

Path, Microbio. & Immunology
Chatzistamou, Ioulia
Developing natural compound emodin as a therapy for alcoholic cardiomyopathy 12,475

Sponsor: AcePre, LLC/NIH
PS PROJECT: 10012784
TOTAL_PROJECT_AMT. IF AVAILABLE:
PROJECT YEARS: 1

VanderVeen, Brandon
Impact of Obesity on Chemotherapy-induced Cytotoxicity- Immune Cells and Skeletal muscle 130,043

Sponsor: National Cancer Institute (NCI)/NIH
PS PROJECT: 10012742
TOTAL_PROJECT_AMT. IF AVAILABLE: 260,086
PROJECT YEARS: 2
School of Music

Music
Bunny, Michael
USC Guitar Spheres

Sponsor: SC Research Foundation (SCRF)/SC Arts Commission
PS PROJECT: 10012778
TOTAL_PROJECT_AMT_IF_AVAILABLE:
PROJECT YEARS: 1

Report Total: $6,270,978