Office of Research
IT and Data Management Offfice

March, 2023 New Awards

Arnold School of Public Health

Applied Research & Evaluation (CARE)

Gillam, Pamela

Child Well Being Coalition-- Gap Analysis- Developmental Screening 27,500

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

PS PROJECT: 10012797
TOTAL_PROJECT_AMT. IF AVAILABLE:
PROJECT YEARS: 1

Center for Community Health Alignment

Smithwick, Julie

Community Health Workers Changing Outcomes in South Carolina (Year 2) - CCHA 1,391,971

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

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) 89,996

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

PS PROJECT: 10012740
TOTAL_PROJECT_AMT. IF AVAILABLE:
PROJECT YEARS: 1

Steck, Susan

Cause and Effect Relationships Between Glycation and the Ancestry Specific Tumor Stroma 66,065

Sponsor: Virginia Commonwealth University/NCI/NIH

PS PROJECT: 10012759
TOTAL_PROJECT_AMT. IF AVAILABLE: 195,757
PROJECT YEARS: 5

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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 40,874

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

PS PROJECT:
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 686,903

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 1,665

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 50,000

Sponsor: Share Our Strength

PS PROJECT: 10012766
TOTAL_PROJECT_AMT. IF AVAILABLE:
PROJECT YEARS: 1

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Li, Xiaoming

Nigeria Subcontract 21,370

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

PS PROJECT: 10012749

TOTAL_PROJECT_AMT. IF AVAILABLE: 83,288

PROJECT YEARS: 1

Rudisill, Anne

Consortium Coordinating Center for Social, Behavioral, and Economic Research on COVID-19 22,065

Sponsor: University of Michigan/NIA/NIH

PS PROJECT: 10012773

TOTAL_PROJECT_AMT. IF AVAILABLE: 29,964

PROJECT YEARS: 1

Utilizing Prisma Health's PLACES (Providing Linkages And Connections to External Social Support Services) Hub to Improve Health in Communities 32,680

Sponsor: Prisma Health-Upstate/Duke Endowment

PS PROJECT: 10012799

TOTAL_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

Health Services Policy & Mgmt

OLATOSI, BANKOLE

Nigeria Subcontract 6,393

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

PS PROJECT: 10012750

TOTAL_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

PASOS

Lubov, Mayra

Community Health Workers Changing Outcomes in South Carolina (Year 2) - PASOS 73,796

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

PS PROJECT: 10012660

TOTAL_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

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College 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

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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

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Psychology
Hudac, Caitlin

Evaluation of the Underlying Structure of Adolescent Social Attention 82,283

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 8,670

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 11,108

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 40,000

Sponsor: Stuart Foundation

PS PROJECT: 10012770
TOTAL_PROJECT_AMT. IF AVAILABLE:
PROJECT YEARS: 1

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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 Paradign 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

Mohammadizand, 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 267,673

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 22,535

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 50,000

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 45,657

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 332,469

Sponsor: National Science Foundation (NSF)

PS PROJECT:
TOTAL_PROJECT_AMT. IF AVAILABLE: 332,469
PROJECT YEARS: 3

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College of Nursing

Nursing

Andrews, Jeanette

Nursing Leadership Training 122,400

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

PS PROJECT: 10012739
TOTAL_PROJECT_AMT. IF AVAILABLE:
PROJECT YEARS: 1

Corbett, Cynthia

South Carolina Nursing Assistant Program (SCNAP) 740,015

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

PS PROJECT: 10012790
TOTAL_PROJECT_AMT. IF AVAILABLE: 3,186,688
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 15,000

Sponsor: SC Department of Commerce

PS PROJECT: 10012801
TOTAL_PROJECT_AMT. IF AVAILABLE:
PROJECT YEARS: 1

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Division of Student Affairs

Substance Abuse and Prevention

Hourigan, Aimee

Harm Reduction Services - Federal 5,000

Sponsor: SC Department of Alcohol & Other Drug Abuse Services/SAMHSA/HHS

PS PROJECT: 10012796
TOTAL_PROJECT_AMT. IF AVAILABLE:
PROJECT YEARS: 1

Harm Reduction Services - State 12,000

Sponsor: SC Department of Alcohol and Other Drug Abuse Services

PS PROJECT: 10012767
TOTAL_PROJECT_AMT. IF AVAILABLE:
PROJECT YEARS: 1

Economic Engagement

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Hardaway, Chad

South Carolina Rising: A New Pre-Seed/Seed Fund 47,000

Sponsor: SC Department of Commerce (SCDOC)

PS PROJECT: 10012748
TOTAL_PROJECT_AMT. IF AVAILABLE:
PROJECT YEARS: 1

School of Medicine

Basic Science Research

Spinale, Francis

Fibroblast targeting for myocardial repair 671,837

Sponsor: National Heart, Lung & Blood Institute (NHLBI)/NIH

PS PROJECT: 10012777
TOTAL_PROJECT_AMT. IF AVAILABLE: 2,650,598
PROJECT YEARS: 4

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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: 1

Developing a Dynamic Modeling Framework for Surveillance, Prediction, and Real-Time Resource Allocation to Reduce Health Disparities During Covid-19 and Future Pandemics 70,076

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

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School of Music

Music

Bunny, Michael

USC Guitar Spheres 2,250

Sponsor: SC Research Foundation (SCRF)/SC Arts Commission

PS PROJECT: 10012778

TOTAL_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

Report Total: **$6,270,978**