

Office of Research
IT and Data Management Office

September, 2019 New Awards

Arnold School of Public Health

Communication Sci & Disorders

Fitton, Lisa

Reach Every Reader Assessment

10,939

Sponsor: Chan Zuckerberg Initiative/Florida State University

PS PROJECT: 10009599

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 3

Werfel, Krystal

(PI - Gabriella Reynolds) Effects of Personal FM System on Children with Minimal Hearing Loss and Dyslexia

1,500

Sponsor: LSVT Global, Inc.

PS PROJECT: 10009502

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

Environmental Health Sciences

Kloot, Robin

Field Schools and Bus Tours to support 'Advanced Soil Health Training for South Carolina Agriculture Professionals' Proposal for SARE PDP

8,529

Sponsor: Clemson University/UGARF/USDA

PS PROJECT: 10009503

AWARD_PROJECT_AMT. IF AVAILABLE: 16,053

PROJECT YEARS: 2

Continue Educating on the Value of Soil Health Principles, the Economic and Environmental Benefits for Every Farm, and of the Far-Reaching Benefits of Soil Health for Society

199,716

Sponsor: Natural Resources Conservation Services/USDA

PS PROJECT: 10009568

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 2

Office of Research
IT and Data Management Office

September, 2019 New Awards

Porter, Dwayne

*Support of the National Estuarine Research Reserve System Centralized Data
Management Office and Enhancements to the System-Wide Monitoring Program*

983,700

Sponsor: National Oceanic & Atmospheric Administration (NOAA)/DOC

PS PROJECT: 10009557

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

Epidemiology & Biostatistics

Burch, James

Role of Circadian Factors in Inflammation and Colorectal Adenoma Risk

585,884

Sponsor: National Cancer Institute (NCI)/NIH

PS PROJECT: 10009556

AWARD_PROJECT_AMT. IF AVAILABLE: 2,931,745

PROJECT YEARS: 5

Office of Research
IT and Data Management Office

September, 2019 New Awards

Health Prom., Educ. & Behavior

Draper, Carrie

Project 1: Statewide SNAP-Ed Priority Indicators Evaluation 59,764

Sponsor: SC Department of Social Services/USDA

PS PROJECT: 10009600

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

Project 2: Health Clinic Nutrition Support Implementation 41,233

Sponsor: SC Department of Social Services/USDA

PS PROJECT: 10009602

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

Project 3: Library Nutrition Support Implementation 30,289

Sponsor: SC Department of Social Services/USDA

PS PROJECT: 10009603

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

Project 4: FoodShare SC Maintenance and Sustainability Support 26,505

Sponsor: SC Department of Social Services/USDA

PS PROJECT: 10009604

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

Project 5: Food Policy Council Development, Maintenance, and Sustainability 35,628

Sponsor: SC Department of Social Services/USDA

PS PROJECT: 10009605

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

Office of Research
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September, 2019 New Awards

Li, Xiaoming

Scale It Up: Effectiveness-Implementation Research to Enhance HIV-Related Self-Management among Adolescents and Young Adults - Analytic Core for U19 Application

22,577

Sponsor: Florida State University/NIH

PS PROJECT: 10009544

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 5

Macauda, Mark

Project 1: Statewide SNAP-Ed Priority Indicators Evaluation

11,137

Sponsor: SCDSS/USDA

PS PROJECT: 10009601

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

Health Services Policy & Mgmt

Olatosi, Bankole

(Oluwatosin Momodu) Graduate Student: RESEARCH AGREEMENT Between South Carolina Department of Health and Environmental Control And The University of South Carolina

13,750

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

PS PROJECT: 10009565

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

College of Arts and Sciences

Archaeology & Anthropology

Smith, Steven

Updating the National Landmark and National Register Nominations for the Camden Battlefield

64,862

Sponsor: National Park Service (NPS)/DOI

PS PROJECT: 10009579

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 2

Office of Research
IT and Data Management Office

September, 2019 New Awards

Spirek, James

Shoals and Shipwrecks: Archaeological Explorations off Port Royal Sound, South Carolina

643,602

Sponsor: National Oceanic & Atmospheric Administration (NOAA)/DOC

PS PROJECT: 10009595

AWARD_PROJECT_AMT. IF AVAILABLE: 214,534

PROJECT YEARS: 2

Young, Stacey

Proposal National Register Evaluations for Five Late Discoveries and Curated Collections Maintenance for the Fort Jackson Cultural Resources Program

94,915

Sponsor: CESU: U.S. Army Corps of Engineers/Fort Worth District/DOD

PS PROJECT: 10009610

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 5

Biological Sciences

Twiss, Jeffery

Dynamic Signaling of NRG3-ErbB4 in the Hippocampus Mediates Nicotine Withdrawal Phenotypes (NIH/NIDA 1R01-DA044311)

74,041

Sponsor: University of Kentucky/NIDA/NIH

PS PROJECT: 10009554

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 2

Chemistry & Biochemistry

Garashchuk, Sophia

Data-science enabled investigation of the mechanisms for multiscale ion transport in functional electrolytes and for the radical generation in crystalline assemblies

56,479

Sponsor: US Department of Energy (DOE)

PS PROJECT: 10009546

AWARD_PROJECT_AMT. IF AVAILABLE: 749,999

PROJECT YEARS: 3

Office of Research
IT and Data Management Office

September, 2019 New Awards

Makris, Thomas

Divergence of Carboxylate-Bridged Diiron Enzymes for Natural Product Biosynthesis 285,121

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

PS PROJECT: 10009597

AWARD_PROJECT_AMT. IF AVAILABLE: 1,144,623

PROJECT YEARS: 4

Shimizu, Linda

Data-science enabled investigation of the mechanisms for multiscale ion transport in functional electrolytes and for the radical generation in crystalline assemblies 19,999

Sponsor: US Department of Energy (DOE)

PS PROJECT: 10009547

AWARD_PROJECT_AMT. IF AVAILABLE: 749,999

PROJECT YEARS: 3

Tang, Chuanbing

Data-science enabled investigation of the mechanisms for multiscale ion transport in functional electrolytes and for the radical generation in crystalline assemblies 100,000

Sponsor: US Department of Energy (DOE)

PS PROJECT: 10009548

AWARD_PROJECT_AMT. IF AVAILABLE: 749,999

PROJECT YEARS: 3

Vannucci, Aaron

A New Approach to Catalyst Immobilization Research: Designing Molecular Catalysts for Heterogeneous Catalysis 25,000

Sponsor: American Chemical Society (ACS), Green Chemistry Institute

PS PROJECT: 10009567

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

Mathematics

Ju, Lili

Efficient and Scalable Time-Stepping Algorithms and Reduced-Order Modeling for Ocean System Simulation 216,828

Sponsor: US Department of Energy (DOE)

PS PROJECT: 10009543

AWARD_PROJECT_AMT. IF AVAILABLE: 375,000

PROJECT YEARS: 3

Office of Research
IT and Data Management Office

September, 2019 New Awards

Wang, Qi

Data-science enabled investigation of the mechanisms for multiscale ion transport in functional electrolytes and for the radical generation in crystalline assemblies 239,685

Sponsor: US Department of Energy (DOE)

PS PROJECT: 10009550

AWARD_PROJECT_AMT. IF AVAILABLE: 749,999

PROJECT YEARS: 3

Physics & Astronomy

Crawford, Thomas

Precision Metrology of Magnetic Recording and Magnetic Nanoparticle Self-Assembly for Optical Metasurface Fabrication 44,208

Sponsor: Thorlabs, Inc.

PS PROJECT: 10009498

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

Religious Studies

Nguyen, Huong

Advancing Alzheimer's Family Caregiving Interventions and Research Capacity in Vietnam (sub to UC Davis) 119,586

Sponsor: U.C. Davis/NIA/NIH

PS PROJECT: 10009551

AWARD_PROJECT_AMT. IF AVAILABLE: 584,214

PROJECT YEARS: 5

College of Education

Instruction & Teacher Educ.

Jenkins-Henry, Toby

Septima Clark Youth Exhibition Program 10,000

Sponsor: City of Columbia

PS PROJECT: 10009609

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

Office of Research
IT and Data Management Office

September, 2019 New Awards

SC School Improvement Council

Hudson, Tom

SC Education Policy Fellowship Program

10,000

Sponsor: SC-EPFP Advisory Board/SC Association of School Administrators (SCASA)

PS PROJECT: 10009552

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

College of Engineering & Comp.

Chemical Engineering

Shimpalee, Sirivatch

Development of a 3-D CFD-based Modeling Platform Capable of Predicting Dynamic Behaviors: Shunt Loss and Mass Transport

38,000

Sponsor: Korea Institute of Machinery & Materials (KIMM)

PS PROJECT: 10009573

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 4

Civil & Environmental Eng.

Caicedo, Juan

SCH: INT: Inferring at Home Gait Parameters of Older Adults using Floor Vibrations

594,816

Sponsor: National Institute on Aging (NIA)/NIH

PS PROJECT: 10009563

AWARD_PROJECT_AMT. IF AVAILABLE: 1,179,484

PROJECT YEARS: 4

Goharian, Erfan

Utilizing Drought Forecasts to Develop Decision Calendars for Reoperation of California's Hydroelectric Reservoir Systems and Managed Aquifer Recharge

133,333

Sponsor: National Oceanic & Atmospheric Administration (NOAA)/DOC

PS PROJECT: 10009594

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

Office of Research
IT and Data Management Office

September, 2019 New Awards

Qian, Yu

Intelligent Crossing Assessment and Traffic Sharing System (i-CATSS)

373,256

Sponsor: Federal Railroad Administration/DOT

PS PROJECT: 10009518

AWARD_PROJECT_AMT. IF AVAILABLE: 160,000

PROJECT YEARS: 1

Computer Science & Engineering

Bakos, Jason

SHF: Small: A Unified Approach for Scheduling Computer Vision Dataflow Graphs

249,416

Sponsor: National Science Foundation (NSF)

PS PROJECT: 10009553

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 3

Hu, Jianjun

Data-science enabled investigation of the mechanisms for multiscale ion transport in functional electrolytes and for the radical generation in crystalline assemblies

25,585

Sponsor: US Department of Energy (DOE)

PS PROJECT: 10009549

AWARD_PROJECT_AMT. IF AVAILABLE: 749,999

PROJECT YEARS: 3

Collaborative Research: Integrating Physics and Generative Machine Learning Models for Inverse Materials Design

204,177

Sponsor: National Science Foundation (NSF)

PS PROJECT: 10009560

AWARD_PROJECT_AMT. IF AVAILABLE: 408,736

PROJECT YEARS: 2

Rekleitis, Ioannis

RII Track-2 FEC: Computational Methods and Autonomous Robotics Systems for Modeling and Predicting Harmful Cyanobacterial Blooms

100,000

Sponsor: Dartmouth College/NSF

PS PROJECT: 10009499

AWARD_PROJECT_AMT. IF AVAILABLE: 824,025

PROJECT YEARS: 4

Office of Research
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September, 2019 New Awards

Sheth, Amit

eDarkTrends: Monitoring Cryptomarkets to Identify Emerging Trends of Illicit Synthetic Opioids Use

129,404

Sponsor: Wright State University/NIDA/NIH

PS PROJECT: 10009555

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

IIT - Engineering

Regan, Elizabeth

Planning Grant: Engineering Research Center for Health Care Transformation (ERC-HCT)

277,737

Sponsor: National Science Foundation (NSF)

PS PROJECT: 10009501

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

Mechanical Engineering

Banerjee, Sourav

Damage Detection Using Two-Stage Compressive Sensing

37,000

Sponsor: Advent Innovation Limited Company/NASA

PS PROJECT: 10009574

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

Downey, Austin

Real-Time High-rate Decision Making for Functional Prognosis of Complex Mechanical Systems

39,999

Sponsor: University of Dayton Research Institute/AFOSR/DOD

PS PROJECT: 10009506

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 2

RTML: Small: Collaborative: A programming model and platform architecture for real-time machine learning for sub-second temporal systems

519,570

Sponsor: National Science Foundation (NSF)

PS PROJECT: 10009561

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 3

Office of Research
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September, 2019 New Awards

Huang, Kevin

A New Class of Chemical Potential Driven Plug Flow Membrane Reactors for Combined Gas Separation and Direct Natural Gas Conversion

227,391

Sponsor: National Science Foundation (NSF)

PS PROJECT: 10009497

AWARD_PROJECT_AMT. IF AVAILABLE: 346,031

PROJECT YEARS: 3

van Tooren, Michael

Problem Solving AFP Monthly Contract

53,200

Sponsor: Ingersoll Machine Tools, Inc.

PS PROJECT: 10009500

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

Boeing - Thermoplastic Induction Welding Computational Model Development

200,000

Sponsor: The Boeing Company

PS PROJECT: 10009575

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

Wang, Yi

Intelligent Crossing Assessment and Traffic Sharing System (i-CATSS)

66,686

Sponsor: Federal Railroad Administration/DOT

PS PROJECT: 10009519

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

Yu, Lingyu

Remote Laser Based Nondestructive Evaluation for Post Irradiation Examination of ATF Cladding

725,000

Sponsor: Office of Nuclear Energy/DOE

PS PROJECT: 10009520

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 3

Office of Research
IT and Data Management Office

September, 2019 New Awards

College of Pharmacy

Drug Discovery & Biomed Sci.

Buckhaults, Phillip

TP53 Synthetic Lethal Screen in Organoid Avatars to Discover Novel Therapeutic Targets for Colon Cancer 293,000

Sponsor: US Army Medical Research Acquisition Activity (USAMRAA)/DOD

PS PROJECT: 10009593

AWARD_PROJECT_AMT. IF AVAILABLE: 586,000

PROJECT YEARS: 2

Darla Moore School of Business

Small Business Dev. Ctr.

Abraham, Michele

SC Dept of Commerce – USC Charleston Award FY19-20 450,000

Sponsor: SC Department of Commerce

PS PROJECT: 10009525

AWARD_PROJECT_AMT. IF AVAILABLE: 450,000

PROJECT YEARS: 1

Division of Student Affairs

Student Health

Caldwell, Rebecca

SC VOCA 2019 - Expanding Advocacy at USC 29,871

Sponsor: SC Office of the Attorney General, Department of Crime Victim Assistance Grants/DOJ

PS PROJECT: 10009576

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

Office of Research
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September, 2019 New Awards

Substance Abuse and Prevention

Hourigan, Aimee

Gamecock Recovery 2019-2020

20,000

Sponsor: SC Dept of Alcohol & Other Drug Abuse Services (SC DAODAS)

PS PROJECT: 10009607

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

Law Enforcement & Safety

Environmental Health & Safety

Syfert, Tom

USC Union Emergency Notification System

48,119

Sponsor: SC Emergency Management Division/FEMA

PS PROJECT: 10009577

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

School of Medicine

Cell Biology & Anatomy

Morad, Martin

Functional Implications of RyR2 Mutations in Human Cardiomyocytes

607,312

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

PS PROJECT: 10009566

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 5

Internal Medicine

Napier, Rebecca

INTELLECT2-HF: INvesTigation to OptimizE Hemodynamic Management of HeartMate II™ Left VentricuLar Assist DEvice Patients using the CardioMEMS™ Pulmonary ArTery Pressure Sensor in Advanced Heart Failure

16,580

Sponsor: St. Jude Medical Business Services Inc., an Abbott Company

PS PROJECT: 10009524

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 2

Office of Research
IT and Data Management Office

September, 2019 New Awards

Neurology

Graham, Cole

*COMPLETE: International Acute Ischemic Stroke Registry with the Penumbra System
Aspiration including the 3D Revascularization Device* 7,150

Sponsor: Penumbra

PS PROJECT: 10009598
AWARD_PROJECT_AMT. IF AVAILABLE:
PROJECT YEARS: 2

Sen, Souvik

Sleep for Stroke Management And Recovery Trial (Sleep SMART) 33,010

Sponsor: Palmetto Health/NINDS/NIH

PS PROJECT: 10009545
AWARD_PROJECT_AMT. IF AVAILABLE:
PROJECT YEARS: 5

Orthopaedic Surgery

Jackson, J. Benjamin

Teriparatide: Stress Fracture Recovery for Return to Duty (Teriparatide: STRONG) 1,266,360

Sponsor: US Army Medical Research Acquisition Activity (USAMRAA)/DOD

PS PROJECT: 10009606
AWARD_PROJECT_AMT. IF AVAILABLE: 2,011,106
PROJECT YEARS: 4

Path, Microbio. & Immunology

Velazquez, Kandy

The Effects of Ojeok-San on Neuro-Immune Interactions on Cancer-Induced Visceral Pain 249,000

Sponsor: National Center for Complementary & Integrative Health (NCCIH)/NIH

PS PROJECT: 10009496
AWARD_PROJECT_AMT. IF AVAILABLE: 747,000
PROJECT YEARS: 3

Office of Research
IT and Data Management Office

September, 2019 New Awards

Pediatrics

Brown, David

A Long-term, Randomized, Double-blind, Multicenter, Parallel-group, Phase III Study Evaluating the Efficacy and Safety of PT027 Compared to PT007 Administered as Needed in Response to Symptoms in Symptomatic Adults and Children 4 Years of Age or Older with Asthma (MANDALA) - (Protocol #AV003) 7,500

Sponsor: Bond Avillion 2 Development LLC

PS PROJECT: 10009564

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

University Advancement

Ofc of Economic Engagement

Hardaway, Chad

University of South Carolina - FY 2019 FAST 500,000

Sponsor: US Small Business Administration (SBA)

PS PROJECT: 10009608

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

University of SC Beaufort

BFT Public Safety

Garbade, Donald

Body-Worn Cameras 17,803

Sponsor: SC Department of Public Safety (SCDPS)

PS PROJECT: 10009578

AWARD_PROJECT_AMT. IF AVAILABLE: 17,802

PROJECT YEARS: 1

**Office of Research
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September, 2019 New Awards

University of SC Sumter

Sumter

Fenimore, Wanda

Elizabeth and Waties Waring: Paving the Rhetorical Road to Brown v. Board of Education 40,000

Sponsor: American Council of Learned Societies (ACLS)

PS PROJECT: 10009562

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

University of SC Upstate

Upstate

Pae, Holly

Project CREATE 2019-20 89,239

Sponsor: SC Department of Education/USDE

PS PROJECT: 10009572

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

Report Total: \$11,704,991