

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

August, 2018 New Awards

Arnold School of Public Health

Environmental Health Sciences

Xiao, Shuo

R11 Track-4: Using the cryopreservation and microfluidic technologies to engineer bottlenose dolphin ovarian function in vitro for testing marine contaminants' female reproductive toxicity - 11510-FB91 214,400

Sponsor: National Science Foundation (NSF)

Co-PI:

AWARD_PROJECT_AMT. IF AVAILABLE:
PROJECT_YEARS: 2

Exercise Science

Lane-Cordova, Abbi

Renin Angiotensin Adosterone System Components and Vascular Function in Women after an Adverse Pregnancy Outcome - 11530-KA69 77,000

Sponsor: American Heart Association

Co-PI:

AWARD_PROJECT_AMT. IF AVAILABLE: 231,000
PROJECT_YEARS: 3

Health Services Policy & Mgmt

Radcliff, Elizabeth

"Community Support for Young Parents (CSYP-II) Evaluation" - 11500-FL60 187,182

Sponsor: Children's Trust of South Carolina with funding from the Federal Office of Adolescent Health/DHHS

Co-PI:

AWARD_PROJECT_AMT. IF AVAILABLE:
PROJECT_YEARS: 2

Public Health - Dean's Office

Murday, David

IPA Agreement: Production of online training recordings regarding staffing methodology for VA Office of Nursing Services - 11580-FJ02 21,300

Sponsor: WJB Dorn VA Medical Center

Co-PI:

AWARD_PROJECT_AMT. IF AVAILABLE:
PROJECT_YEARS: 1

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Workman, Lauren

Healthy People Healthy Carolinas Evaluation 2018 - 11580-KA20

21,536

Sponsor: South Carolina Hospital Research and Education Foundation

Co-PI:

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT_YEARS: 1

College of Arts and Sciences

Archaeology & Anthropology

Smith, Steven

Unit history of the 122nd Engineer Combat Battalion - 21300-FB13

11,500

Sponsor: Office of the Adjutant General

Co-PI:

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT_YEARS: 1

Biological Sciences

Czako, Mihaly

DNA Barcoding of a Ginger Variety 'IC' - 13010-KL01

878

Sponsor: Robert Pollock, Ph. D.

Co-PI:

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT_YEARS: 1

Chemistry & Biochemistry

Angel, S.

NEXT GENERATION RAMAN: DEVELOPING A MONOLITHIC SPATIAL HETERODYNE SPECTROMETER FOR MULTI-SCALE CHEMICAL MAPPING IN MARINE ENVIRONMENTS - 13020-FD16

63,055

Sponsor: National Science Foundation (NSF)

Co-PI:

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT_YEARS: 3

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Wang, Qian

MRI: Acquisition of a High Resolution, Quadrupole Mass Spectrometer to Enable Research and Education at the Interface of Chemistry and Biology - 13020-FQ08 450,000

Sponsor: National Science Foundation (NSF)

Co-PI:

AWARD_PROJECT_AMT. IF AVAILABLE:
PROJECT_YEARS: 5

Earth & Ocean Sciences

Benitez-Nelson, Claudia

Collaborative Research: Assessing the relative importance of small vs large particles as sources of nutrition to abyssal communities - 21610-FA21 264,691

Sponsor: National Science Foundation (NSF)

Co-PI:

AWARD_PROJECT_AMT. IF AVAILABLE:
PROJECT_YEARS: 3

Lang, Susan

The DEEP Project: DEtecting Extraterrestrial Piezophiles in Ocean World Analogs - 21610-FA20 39,818

Sponsor: Rensselaer Polytechnic Institute/NASA

Co-PI:

AWARD_PROJECT_AMT. IF AVAILABLE: 88,807
PROJECT_YEARS: 3

Mathematics

Thorne, Frank

Collaborations in Arithmetic Statistics - 13060-KA15 8,400

Sponsor: Simons Foundation

Co-PI:

AWARD_PROJECT_AMT. IF AVAILABLE: 42,000
PROJECT_YEARS: 5

McKissick Museum

Przybysz, Jane

FOLKFabulous@theFair 2018 - 34000-KL05 21,421

Sponsor: SC State Fair

Co-PI:

AWARD_PROJECT_AMT. IF AVAILABLE:
PROJECT_YEARS: 1

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Physics & Astronomy

Ilieva, Yordanka

NSF-BSF: The Study of Nuclear Physics with Intermediate Energy Probes - 13070-FB74 350,000

Sponsor: National Science Foundation (NSF)

Co-PI:

AWARD_PROJECT_AMT. IF AVAILABLE: 1,050,000

PROJECT_YEARS: 3

Psychology

January, Stacy-Ann

A Comparison of Two Reading Interventions and Initial Evaluation of a Caregiver-Delivered Reading Intervention with ELL Students - 13580-FB62 3,479

Sponsor: University of Texas-Austin/USDE

Co-PI:

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT_YEARS: 1

Kipp, Colby

Understanding the Effects of Positive Parenting, Neighborhood Supports and Perceived Stress on African American Adolescent Weight-Related Outcomes Using a Community Participatory Approach - 13580-KX00 800

Sponsor: Society for Community Research and Action (SCRA)

Co-PI:

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT_YEARS: 1

College of Engineering & Comp.

Chemical Engineering

Diao, Weijian

Project 15: Boron nitride (BN) supported metal and metal oxide catalysts for selective oxidation reactions - 15510-JB37 27,000

Sponsor: CeRCaS/Various Commercial

Co-PI:

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT_YEARS: 1

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Heyden, Andreas

Understanding and Designing Novel Anode Materials for Solid Oxide Fuel Cells - 15510-FD13 80,000

Sponsor: National Science Foundation (NSF)

Co-PI:

AWARD_PROJECT_AMT. IF AVAILABLE:
PROJECT_YEARS: 4

Collaborative Research: Understanding and Manipulating the Solvent Microenvironment for Selective, Catalytic Amination of Renewable Oxygenates - 15510-FD15 75,750

Sponsor: National Science Foundation (NSF)

Co-PI:

AWARD_PROJECT_AMT. IF AVAILABLE: 225,000
PROJECT_YEARS: 3

Lauterbach, Jochen

Project 14: Mechanistic Understanding of Ethane Partial Oxidation over bi functional MoV-based catalysts - 15510-JB38 32,000

Sponsor: CeRCaS/Various Commercial

Co-PI:

AWARD_PROJECT_AMT. IF AVAILABLE:
PROJECT_YEARS: 1

Mustain, William

Additive Manufacturing for Lithium-Ion Batteries - 15510-FD12 30,000

Sponsor: Physical Sciences Incorporated(PSI)/DOD

Co-PI:

AWARD_PROJECT_AMT. IF AVAILABLE:
PROJECT_YEARS: 1

GOALI: Collaborative Research: Electrochemical CO2 Separation and Capture through Design of Carbonate-Selective Catalysts and Ionomers - 15510-FD14 275,000

Sponsor: National Science Foundation (NSF)

Co-PI:

AWARD_PROJECT_AMT. IF AVAILABLE:
PROJECT_YEARS: 3

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Regalbuto, John

Project 17: Ultrasmall Bimetallic Catalysts for Selective Hydrogenation of Alkenes - 15510-JB36 27,000

Sponsor: CeRCaS/Various Commercial

Co-PI:

AWARD_PROJECT_AMT. IF AVAILABLE:
PROJECT_YEARS: 1

Shimpalee, Sirivatch

Flow Loop and Getter Bed Simulation - 15510-FD16 117,200

Sponsor: Savannah River Nuclear Solutions, LLC

Co-PI:

AWARD_PROJECT_AMT. IF AVAILABLE:
PROJECT_YEARS: 2

Civil & Environmental Eng.

Berge, Nicole

Fate of Nitrogen and Effectiveness of Evaporation in Managing Leachate - 15520-KA37 70,185

Sponsor: Environmental Research and Education Foundation (EREF)

Co-PI:

AWARD_PROJECT_AMT. IF AVAILABLE:
PROJECT_YEARS: 2

Electrical Engineering

Mandal, Krishna

Wide bandgap SiC based field effect transistor for radiation hard microelectronics - 15530-FB89 19,997

Sponsor: Radiation Monitoring Devices, Inc/Missile Defense Agency/DOD

Co-PI:

AWARD_PROJECT_AMT. IF AVAILABLE: 29,979
PROJECT_YEARS: 1

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August, 2018 New Awards

Mechanical Engineering

Chen, Fanglin

Understanding and Designing Novel Anode Materials for Solid Oxide Fuel Cells - 15540-FD84 80,000

Sponsor: National Science Foundation (NSF)

Co-PI:

AWARD_PROJECT_AMT. IF AVAILABLE: 640,000

PROJECT_YEARS: 4

Cost-effective, Thin-film SOFCs for Reliable Power Generation - 15540-FD85 500,000

Sponsor: Office of Fossil Energy (DoE)

Co-PI:

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT_YEARS: 2

Gurdal, Zafer

Solvay TX1100 Dry Preform Production and Inspection using AFP System - 15540-JL13 13,516

Sponsor: Solvay S.A.

Co-PI:

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT_YEARS: 1

Huang, Kevin

A Transformational Natural Gas Fueled Dynamic SOFC for Data Center In-Rack Power - 15540-FD86 500,000

Sponsor: US Department of Energy (DOE)

Co-PI:

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT_YEARS: 2

College of Social Work

Social Work - Dean's Office

Levkoff, Sue

Social Technology for Eldercare in China Initiative - 15900-KA38 10,000

Sponsor: Department of Global Health and Social Medicine, Harvard Medical School/Jiangsu Industrial Technology Research Institute, China

Co-PI:

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT_YEARS: 1

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Darla Moore School of Business

Moore Sch - Div. of Research

Von Nessen, Joseph

EngenuitySC: 2018 Midlands Regional Competitiveness Report - 21200-KA48 10,000

Sponsor: EngenuitySC

Co-PI:

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT_YEARS: 1

School of Law

Law - Dean's Office

Samuels, Joel

*Justice Sector Training, Research, and Coordination Plus (JusTRAC+) Program Project
1 - 61000-FJ02* 4,748,969

Sponsor: US Department of State, Bureau of International Narcotics and Law
Enforcement (INL)

Co-PI:

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT_YEARS: 5

School of Medicine

Cell Biology & Anatomy

Lessner, Susan

*Investigating the Balance of Passive and Active Mechanics in Vascular Remodeling: An
Integrated Experimental and Computational Approach - 18020-FB69* 423,761

Sponsor: National Science Foundation (NSF)

Co-PI:

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT_YEARS: 3

Family & Preventive Medicine

Keisler, Brian

Model State-Supported AHEC Program - USC Subaward - 18130-FJ09 36,976

Sponsor: MUSC/AHEC/HRSA

Co-PI:

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT_YEARS: 1

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Internal Medicine

Yates-Wilson, Beverly

FoodShare South Carolina; A Nutrition and Lifestyle Opportunity to Improve Health and Prevent Chronic Disease - 18190-KL14 275,000

Sponsor: USC Education Foundation/The Duke Endowment

Co-PI:

AWARD_PROJECT_AMT. IF AVAILABLE:
PROJECT_YEARS: 3

Path, Microbio. & Immunology

Nagarkatti, Prakash

26TH NSF EPSCoR NATIONAL CONFERENCE: Science and Partnerships Across Disciplinary Boundaries - 22000-FJ00 737,585

Sponsor: National Science Foundation (NSF)

Co-PI:

AWARD_PROJECT_AMT. IF AVAILABLE:
PROJECT_YEARS: 1

Pediatrics

Roberts, Carla

iSCENSC--PH Subaward - 18140-FA28 16,427

Sponsor: Palmetto Health/MUSC/NHLBI/NIH

Co-PI:

AWARD_PROJECT_AMT. IF AVAILABLE:
PROJECT_YEARS: 1

DISPLACE--PH Subaward 8.15.18 - 18140-FM72 3,257

Sponsor: Palmetto Health--Subaward from MUSCNIH/NHLBI

Co-PI:

AWARD_PROJECT_AMT. IF AVAILABLE:
PROJECT_YEARS: 1

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School of Medicine (Grvl)

Medicine Greenville

Casanova, Manuel

*To Determine the Minicolumnar Morphometry of Autistic, 15q Dup and Various Shank3
Mutant Mouse Models as Compared to Control Tissue - 16000-KA06* 20,000

Sponsor: Autism Research Institute

Co-PI:

AWARD_PROJECT_AMT. IF AVAILABLE:
PROJECT_YEARS: 1

University of SC Aiken

Aiken

Shervette, Virginia

*Novel Approaches to Age Validation in Data-Poor U.S. Caribbean Reef Fishes - 17110-
FA74* 299,817

Sponsor: National Marine Fisheries Service (NMFS), National Oceanic and
Atmospheric Administration (NOAA), Department of Commerce

Co-PI:

AWARD_PROJECT_AMT. IF AVAILABLE:
PROJECT_YEARS: 2

University of SC Upstate

Upstate

Pilgrim, Melissa

*Maternal transfer of radiocesium in Nerodia floridana (Florida Green Watersnakes) -
17880-LA03* 734

Sponsor: Greenville Zoo

Co-PI:

AWARD_PROJECT_AMT. IF AVAILABLE:
PROJECT_YEARS: 1

Timonov, Alex

*Stable and Convergent Computational Algorithms for Current Density Imaging - 17880-
FA18* 59,997

Sponsor: National Science Foundation (NSF)

Co-PI:

AWARD_PROJECT_AMT. IF AVAILABLE:
PROJECT_YEARS: 3

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Report Total: \$10,225,631