

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

October, 2019 Awards

Arnold School of Public Health

Applied Research & Evaluation (CARE)

Leake, Lesley

Vista Now Evaluation Proposal - Year 2 94,753

Sponsor: Duke Endowment c/o South Carolina Department of Mental Health

Vista Now Evaluation Proposal -137,283

Sponsor: Duke Endowment c/o SC Department of Mental Health

Workman, Lauren

Rural Health Research Center Cooperative Agreement 2019-2020 - NCI Project 1,713

Sponsor: Health Resources & Services Administration (HRSA)/HHS

Communication Sci & Disorders

Fitton, Lisa

Reach Every Reader Assessment 21,215

Sponsor: Chan Zuckerberg Initiative/Florida State University

Environmental Health Sciences

Decho, Alan

Cooperation and adaptability in microbial mats from extreme environments: Quorum sensing and its relation to early life on Earth and elsewhere. 130,310

Sponsor: NASA

Epidemiology & Biostatistics

Eberth, Jan

Rural Health Research Center Cooperative Agreement 2019-2020 - FORHP Project 91,097

Sponsor: Health Resources & Services Administration (HRSA)/HHS

Hebert, James

University of Kentucky Markey Cancer Center - Cancer Center Support Grant 29,299

Sponsor: University of Kentucky Research Foundation/NCI/NIH

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

October, 2019 Awards

Liese, Angela <i>SEARCH for Diabetes in Youth Registry Study, Phase 4: Carolina Center (Component A)</i> Sponsor: University of North Carolina Chapel Hill(UNC)/CDC	48,074
McLain, Alexander <i>"Feasibility of Creating Small Area Estimates Using Weighted, Multilevel Prediction Models: an Application for the National Survey of Children's Health"Phase II</i> Sponsor: National Network of Public Health Institutes (NNPHI)/CDC	120,761
Exercise Science	
Sarzynski, Mark <i>SC INBRE DRP Award: The Effect of Exercise Training on Proteins and MicroRNAs Bound to High-Density Lipoproteins</i> Sponsor: National Institute of General Medical Sciences (NIGMS)/NIH	-6,657
Health Prom., Educ. & Behavior	
Brandt, Heather <i>Rural Health Research Center Cooperative Agreement 2019-2020 - NCI Project</i> Sponsor: Health Resources & Services Administration (HRSA)/HHS	6,663
PASOS	
Martin, Maria <i>DHEC WIC and PASOs Contract</i> Sponsor: SC Department of Health & Environmental Control (DHEC)/USDA	707,884
College of Arts and Sciences	
Anthropology	
Fogle, Kevin <i>CESU: Connecting African American History to Cumberland Island National Seashore</i> Sponsor: National Park Service/DOI	62,633

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

October, 2019 Awards

Archaeology & Anthropology

Young, Stacey

Archeological Testing at 14 Sites, Fort Bragg, North Carolina

206,989

Sponsor: US Army Corps of Engineers Fort Worth/DOD

Biological Sciences

Davis, Shannon

Identifying Genetic Loci Associated with Neurocristopathies using the Deer Mouse, Peromyscus maniculatus

18,203

Sponsor: National Institute of Dental and Craniofacial Research (NIDCR)/NIH

Dudycha, Jeffry

Mutational Variance of the Transcriptome and the Origins of Phenotypic Plasticity

188,772

Sponsor: National Science Foundation (NSF)

Chemistry & Biochemistry

Chen, Donna

Multimetallic Metal-Organic Frameworks as Tunable, Multifunctional Catalysts for Gas Phase Hydroformylation and Hydrogenation Reactions.

129,028

Sponsor: US Department of Energy (DOE)

Dawson, John

Elsevier - Editor Agreement

1,083

Sponsor: Elsevier

Shustova, Natalia

Multimetallic Metal-Organic Frameworks as Tunable, Multifunctional Catalysts for Gas Phase Hydroformylation and Hydrogenation Reactions.

62,346

Sponsor: US Department of Energy (DOE)

zur Loye, Hans-Conrad

Radioluminescent Particles for Optical Mission in Optogenetics

37,293

Sponsor: Clemson University/NSF

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

October, 2019 Awards

Criminology & Criminal Justice

Alpert, Geoffrey

Assessment of Cognitive Performance-based Training to Improve Police Decision-making

42,575

Sponsor: Michigan State University (MSU)/DOJ

Geography

Dow, Kirstin

Conservation Adaptation Planning for Landscape and Climate Changes in the Southeast

-11,762

Sponsor: NC State University/DOI

History

Donaldson, Bobby

Justice for All Digital Exhibit

45,088

Sponsor: National Park Service (NPS)/DOI

Mathematics

Thorne, Frank

Collaborations in Arithmetic Statistics

8,400

Sponsor: Simons Foundation

McKissick Museum

Przybysz, Jane

SCAC Folklife Partnership Grant 2019-20 Renewal

59,473

Sponsor: SC Arts Commission

Physics & Astronomy

Kulkarni, Varsha

Connecting the Different Signatures of Interstellar Dust at Low Redshift: A Benchmark for Comparison to the Distant Universe

128

Sponsor: National Aeronautics & Space Administration (NASA)

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

October, 2019 Awards

Psychology

Weist, Mark

*Enhancing School-Based Violence Prevention through Multilevel Racial/Ethnic
Discrimination Intervention (Subaward of MUSC)* 20,627

Sponsor: Medical University of SC/NIH

Zarrett-Kivita, Nicole

*Enduring Character Virtues: How After-School Organized Activities Support Character
Development from Childhood through Young Adulthood* 43,807

Sponsor: University of California, Irvine/John Templeton Foundation

School of Earth, Ocean & Env.

Owens, Thomas

Earthquake Monitoring in South Carolina 103,510

Sponsor: SC Universities Research & Education Foundation (SCUREF)/SRNL/DOE

Statistics

Ho, Yen-Yi

*Identifying Genetic Loci Associated with Neurocristopathies using the Deer Mouse,
Peromyscus maniculatus* -18,203

Sponsor: National Institutes of Health

College of Education

Child Development Res. Center

Googe, Heather

Building a Statewide System for Inclusion 2019-20 877,829

Sponsor: SC Department of Social Services(DSS)/HHS

McDonald, Melissa

*Management & Administration of the Child Care Resource and Referral Network 2019-
2020* 1,850,105

Sponsor: SC Department of Social Services (DSS)/HHS

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

October, 2019 Awards

Rao, Vasanthi <i>Child Care Data Collection and Analysis 2019-2020</i> Sponsor: SC Department of Social Services (DSS)/HHS	504,002
Educ. Leadership & Policies	
Anderson, Christian <i>Freedom's Lawmakers: Black Leadership during Reconstruction - Misremembering and Reclaiming Black Reconstruction Leadership. (July 5-25 2020)</i> Sponsor: National Endowment for the Humanities (NEH)	173,012
Educational Studies	
Carlson, Ryan <i>University of Central Florida Subaward: Project HARMONY</i> Sponsor: University of Central Florida/HHS	95,481
Limberg-Ohrt, Dodie <i>Project IMPACT: Improving the Mental Health of Students with Emotional and Behavioral Disorders by Preparing School Counselors and Special Education Teachers to Collaborate on an Interdisciplinary Team</i> Sponsor: U.S. Department of Education (USDE)	108,030
Instruction & Teacher Educ.	
Roy, George <i>University of South Carolina – Transition to Teaching Residency (UofSC-T3)</i> Sponsor: US Department of Education (USDE)	547,732
Research, Eval., & Measurement	
D'Amico, Leigh <i>University of South Carolina – Transition to Teaching Residency (UofSC-T3)</i> Sponsor: US Department of Education (USDE)	120,000
Dickenson, Tammiee <i>University of Central Florida Subaward: Project HARMONY</i> Sponsor: University of Central Florida/HHS	31,723

Office of Research
IT and Data Management Office

October, 2019 Awards

Lewis, Ashlee

Standards-Based Arts Assessment in South Carolina: Music and Visual Arts Assessments for Distinguished Arts Programs (2020) 30,000

Sponsor: SC Department of Education (SCDE)

College of Engineering & Comp.

Chemical Engineering

Heyden, Andreas

RII Track-2 FEC: Center for a Sustainable Water, Energy, and Food Nexus (SusWEF) 237,137

Sponsor: University of Puerto Rico/NSF

Lauterbach, Jochen

RII Track-2 FEC: Center for a Sustainable Water, Energy, and Food Nexus (SusWEF) 67,481

Sponsor: University of Puerto Rico/NSF

Monnier, John

DOE Phase II: Integrated Membrane Reactor for Enhancing Thermal & Chemical Reactors 410,322

Sponsor: Compact Membrane Systems, Inc.(CMS)/DOE

Moss, Melissa

REU Site: Engineering Medical Advances at the Interface of Experiments and Computation 360,000

Sponsor: National Science Foundation (NSF)

Taheri-Qazvini, Nader

RII Track-2 FEC: Center for a Sustainable Water, Energy, and Food Nexus (SusWEF) 59,532

Sponsor: University of Puerto Rico/NSF

White, Ralph

A 1D Mathematical Model for Lithium Polysulfide (PS) Management in Lithium Sulfur Batteries 44,999

Sponsor: Alliance for Sustainable Energy, LLC/NREL

Office of Research IT and Data Management Office

October, 2019 Awards

Civil & Environmental Eng.

Hoque, Shamia

Green plasma technology for siloxane removal and landfill gas upgrade

24,992

Sponsor: Environmental Protection Agency (EPA)

Huynh, Nathan

Center for Connected Multimodal Mobility

392,028

Sponsor: Clemson University/USDOT

Yoon, Yeomin

Rll Track-2 FEC: Center for a Sustainable Water, Energy, and Food Nexus (SusWEF)

76,850

Sponsor: University of Puerto Rico/NSF

Ziehl, Paul

NDE Based Condition Assessment of Sub-Surface Concrete with Limited Access – Phase II

228,000

Sponsor: Texas Research Institute-Austin/US Air Force

Distributed Condition Prognostics System for Navy Shipboard Machinery

59,926

Sponsor: Navy Surface Warfare Center/DOD

Computer Science & Engineering

Sheth, Amit

HazardSEES: Social and Physical Sensing Enabled Decision Support for Disaster Management and Response

110,000

Sponsor: Ohio State University/NSF

Valafar, Homayoun

South Carolina IDeA Networks of Biomedical Research Excellence (INBRE) - Year 3 - Bioinformatics Core

-2,687

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

Office of Research
IT and Data Management Office

October, 2019 Awards

Electrical Engineering

Zhang, Bin

Distributed Condition Prognostics System for Navy Shipboard Machinery 90,074

Sponsor: Navy Surface Warfare Center/DOD

Mechanical Engineering

Besmann, Theodore

in situ Measurement and Validation of Uranium Molten Salt Properties at Operationally Relevant Temperatures 79,555

Sponsor: University of Connecticut/DOE

Gurdal, Zafer

Work Activity 202C20: Rapid Tools 20,605

Sponsor: National Institute of Aerospace/NASA

Harik, Ramy

Work Activity 202C22: Design for Manufacturing (DFM) Software Development 29,899

Sponsor: National Institute of Aerospace/NASA

Work Activity 202C24: Closed -Loop Control of AFP Heating 15,290

Sponsor: National Institute of Aerospace/NASA

Huang, Xinyu

Develop and Apply Hydrophobic Coating to Cell Support Structures for Skyre Hydrogen Pump 77,215

Sponsor: Skyre Inc./NASA

Lee, Dongkyu

Understanding the Fundamental Mechanisms Governing Tensile Strength of High-Performance Small-Scale Carbon/Glass Fibers 78,252

Sponsor: National Science Foundation (NSF)

Majumdar, Prasun

Microstructure Experiments-Enabled MARMOT Simulations of SiC/SiC-based Accident Tolerant Nuclear Fuel System -43,000

Sponsor: NC State University/DOE

Office of Research
IT and Data Management Office

October, 2019 Awards

Reynolds, Anthony

University of South Carolina subcontract in support of Thrust 1, Project 1 associated with LDRD award: 73950 SPP, Discovering Thermomechanical Pathways.

75,000

Sponsor: Pacific Northwest National Laboratory/Battelle/DOE

Sockalingam, Subramani

Understanding the Fundamental Mechanisms Governing Tensile Strength of High-Performance Small-Scale Carbon/Glass Fibers

-78,252

Sponsor: National Science Foundation (NSF)

Wang, Yi

Multi-fidelity Surrogate Modeling and Data Fusion for Accurate Structural Buffet Load Prediction

40,311

Sponsor: CFD Research Corporation/US Navy/DOD

College of Nursing

Nursing

Bell, Nathaniel

Rural Health Research Center Cooperative Agreement 2019-2020 - FORHP Project

8,872

Sponsor: Health Resources & Services Administration (HRSA)/HHS

Jaja, Cheedy

Insights into Microbiome and Environmental Contributions to Sickle Cell Disease and Leg Ulcers Study (INSIGHTS Study)

67,065

Sponsor: National Institutes of Health (NIH)

Jenerette, Coretta

Subaward: Nursing Workforce Diversity - University of North Carolina at Chapel Hill - Year 2

8,500

Sponsor: University of North Carolina-Chapel Hill/HRSA

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

October, 2019 Awards

College of Social Work

Families in Society, Institute

Shapiro, Cheri

Evaluation of Resilient Richland Program

20,070

Sponsor: United Way of the Midlands

Social Work - Dean's Office

Browne, Teri

Improving SC Rural Health Workforce Recruitment & Retention

157,126

Sponsor: SC Center for Rural and Primary Healthcare/SCDHHS

Darla Moore School of Business

Moore Sch - Div. of Research

Von Nessen, Joseph

*S.C. State Housing Finance and Development Authority - Economic Impact Analysis
FY19*

44,000

Sponsor: SC State Housing Finance and Development Authority

Division of Student Affairs

Substance Abuse and Prevention

Hourigan, Aimee

Gamecock Recovery 2019-2020

74,128

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

Enrollment Management

TRIO Programs

Counts, Althea

Talent Search Program

40,000

Sponsor: U.S. Department of Education (USDE)

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

October, 2019 Awards

Law Enforcement & Safety

Law Enforc. & Safety

Culp, Erin

Law Enforcement Professionals Body Worn Camera Fund

4,500

Sponsor: SC Department of Public Safety, Office of Highway Safety and Justice Programs

School of Law

Children's Law Center

Morris, Carolyn

DSS - Court Liaison Program

3,303,610

Sponsor: South Carolina Department of Social Services (DSS)/HHS

School of Medicine

Basic Science Research

Turley, Christine

SEARCH for Diabetes in Youth Registry Study, Phase 4: Carolina Center (Component A)

-48,074

Sponsor: University of North Carolina Chapel Hill(UNC)/CDC

Cell Biology & Anatomy

Azhar, Mohamad

Cardiovascular Calcification: Mechanisms and Therapy

8,742

Sponsor: Clemson University/NHLBI/NIH

Office of Research IT and Data Management Office

October, 2019 Awards

Goldsmith, Edie

SC INBRE Administrative Supplement to Support Collaborative INBRE/COBRE Research 147,340

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

South Carolina IDeA Networks of Biomedical Research Excellence (INBRE) (year 3) - Administrative Core -63,378

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

South Carolina IDeA Networks of Biomedical Research Excellence (INBRE) - Year 3 - Holding Account for DRP Awards. -17,785

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

South Carolina IDeA Networks of Biomedical Research Excellence (INBRE) - Year 3 - SC State -13,183

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

Lavoie, Holly

SC INBRE DRP Award: Pregnancy, TIMP4 and Cardiac Remodeling -9,972

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

Family & Preventive Medicine

Bennett, Kevin

Catawba CMHC/Community Medicine Foundation Primary Care Initiative (Year 4) 17,327

Sponsor: Upper Midlands Rural Health Network/SCDMH/HHS

Internal Medicine

Albrecht, Helmut

Randomized Trial to Prevent Vascular Events in HIV – REPRIEVE 2,111

Sponsor: Hospital Corporation d/b/a Massachusetts General Hospital/NIH

Weissman, Sharon

Housing Opportunities for Persons With AIDS 287,469

Sponsor: City of Columbia/HUD

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

October, 2019 Awards

Neurology

Graham, Cole

COMPLETE: International Acute Ischemic Stroke Registry with the Penumbra System Aspiration including the 3D Revascularization Device 4,359

Sponsor: Penumbra

Sen, Souvik

A Global, Phase 2, Randomized, Double-Blind, Placebo-Controlled, Response-Adaptive Dose-Ranging Study of BMS-986177, an Oral Factor XIa Inhibitor, for the Prevention of New Ischemic Stroke or New Covert Brain Infarction in Patients Receiving Aspirin and Clopidogrel Following Acute Ischemic Stroke or Transient Ischemic Attack (TIA) 7,800

Sponsor: PPD Investigator Services LLC/Bristol-Myers Squibb

AZT: A PHASE II SAFETY AND EFFICACY STUDY OF ALZT-OP1A AS ADJUVANT TREATMENT IN SUBJECTS WITH POST-ISCHEMIC STROKE COGNITIVE IMPAIRMENT (PSCI) 2,000

Sponsor: AZ Therapies, Inc.

Neuropsychiatry

Narasimhan, Meera

Young Lives Matter 25,000

Sponsor: SC Department of Mental Health/SAMHSA/HHS

Path, Microbio. & Immunology

Catroppo, James

ICPI Medical Student Group (MSIG) Program for the 2019-2020 Academic Year 500

Sponsor: Intersociety Council for Pathology Information, Inc./ASIP

Nagarkatti, Mitzi

Epigenetic mechanisms in Transgenerational Effects of an Environmental Pollutant 500,283

Sponsor: National Institute of Environmental Health Sciences (NIEHS)/NIH

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

October, 2019 Awards

Pediatrics

Cramer, Stuart

COG: Workload Intensity (NCTN Grant 2U10CA180886) 11,950

Sponsor: The Children's Hospital of Philadelphia contracting on Behalf of the
Children's Oncology Group/NIH

Rotholz, David

South Carolina University Center for Excellence in Developmental Disabilities 92,195

Sponsor: Administration on Community Living/HHS

Pharm., Physiology & Neurology

Kelly, Michy

Role of Cyclic Nucleotide Signaling in Age-related Decline of Social Memories 34,895

Sponsor: National Institute on Aging (NIA)/NIH

Pocivavsek, Ana

*Targeted Manipulation of Brain KYNA by Genetic and Pharmacological Means:
Biochemical and Functional Effects* 50,000

Sponsor: University of Maryland/NIH

Surgery

Mussa, Firas

*Prospective, Multicenter, Single Arm Safety and Effectiveness Confirmatory Study of
Endovascular Abdominal Aortic Aneurysm Repair using the Nellix® System (EVAS II
Confirmatory Study)* 1,100

Sponsor: Endologix, Inc.

School of Medicine (Grvl)

Medicine Greenville

Sharkey, Angela

Project EMPOWER - Engaging Medicine Providers On Ways to Enhance Recovery 63,984

Sponsor: Clemson University/SAMHSA/HHS

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

October, 2019 Awards

School of Music

Music

Bain, Reginald

Mutational Variance of the Transcriptome and the Origins of Phenotypic Plasticity 20,175

Sponsor: National Science Foundation (NSF)

University of SC Aiken

AK Biology & Geology

DeLaurier, April

SC INBRE DRP Award: Genetic Mechanisms Underlying Craniofacial Skeletal Development in Zebrafish -705

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

Jackson, William

South Carolina IDeA Networks of Biomedical Research Excellence (INBRE) - Year 3 -32,973

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

AK Research Support

Pirkle, William

Management of Nuclear Nonproliferation International Safeguards Graduate Fellowship Program (NNIS) 700,158

Sponsor: SC Universities Research and Education Foundation
(SCUREF)/SRNS/NNSA/DOE

Nuclear Forensics Graduate Fellowship Program - Formerly MUSC 9,453

Sponsor: SC Universities Research Education Foundation/ Dept of Homeland Security

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

October, 2019 Awards

University of SC Beaufort

BFT Natural Sciences

Montie, Eric

*Establish a Dolphin Monitoring and River Health Assessment Program for
Chechessee Creek and Colleton River* 30,000

Sponsor: Spring Island Trust

Ritchie, Kimberly

*Project Title: Development of a Rapid DNA-based Detection Assay to Differentiate
Animal Fecal Coliforms in Oyster Beds* 5,000

Sponsor: Spring Island Trust

University of SC Sumter

Sumter

Rosdail, Lisa

Upward Bound University of South Carolina Sumter Campus 287,537

Sponsor: US Department of Education (USDE)

University of SC Upstate

Upstate

Damrel, David

American Qur'an Art Exhibition and Public Lectures 2,000

Sponsor: SC Humanities/NEH

Vice President for Research

EPSCoR

Aziz, Nadim

FY16 SC EPSCoR Appropriation 639,664

Sponsor: SC EPSCoR/IDeA/SC Commission on Higher Education (CHE)

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

October, 2019 Awards

Office Research - General

Deans, Kenneth

PCORnet 2.0 Membership

5,500

Sponsor: Vanderbilt University Medical Center/PCRF

Report Total:

\$15,397,605