

Office of Research
IT and Data Management Office

July, 2019 New Awards

Arnold School of Public Health

Community Health Worker Inst

Smithwick, Julie

Upper Midlands Rural Health Network Community Health Worker Program Development 9,500

Sponsor: Upper Midlands Rural Health Network/SC Center for Rural and Primary Healthcare/SC DHHS

PS PROJECT: 10009330

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

Epidemiology & Biostatistics

Eberth, Jan

Rural Innovations Cooperative Agreement Contract 2019-2021 198,000

Sponsor: SC Center for Rural and Primary Healthcare/USC SOM/SC DHHS

PS PROJECT: 10009328

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 2

Lohman, Matthew

Mechanisms of Increased Fall Risk among Older Adults with Depression: A Causal Mediation Analysis 142,455

Sponsor: National Institute on Aging (NIA)/NIH

PS PROJECT: 10009382

AWARD_PROJECT_AMT. IF AVAILABLE: 284,910

PROJECT YEARS: 2

Exercise Science

Beets, Michael

A Meta-Epidemiological Assessment of the Role of Pilot Studies in the Design of Well-Powered Trials – the Pilot Project 576,862

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

PS PROJECT: 10009358

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 4

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

July, 2019 New Awards

Yeargin, Susan

(PI - Rebecca Hirschhorn) - The Epidemiology of EMS Activations for Sport-Related Injuries by Athletic Training Service Level 2,373

Sponsor: NATA Research & Education Foundation

PS PROJECT: 10009324

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

Health Services Policy & Mgmt

Xirasagar, Sudha

Improving EMS Use by South Carolina Stroke Patients: Racial Disparities in Stroke Patients' Use and Experience of EMS and Hospital Emergency Room Services 15,000

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

PS PROJECT: 10009371

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

Public Health - Dean's Office

Gillam, Pamela

A Statewide Approach to Integrating Social Determinants of Health in Patient Care: Planning and Design 140,000

Sponsor: Blue Cross Blue Shield of South Carolina Foundation

PS PROJECT: 10009349

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

Care Transitions Facilitation for SCHA and BCBSSC 24,565

Sponsor: SC Hospital Research and Education Foundation

PS PROJECT: 10009408

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

Murday, David

Aiken County ATOD Comprehensive Needs Assessment 8,458

Sponsor: The Aiken Center/SC DAODAS/SAMHSA/HHS

PS PROJECT: 10009334

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

Office of Research
IT and Data Management Office

July, 2019 New Awards

College of Arts and Sciences

Anthropology

de la Cova, Carlina

(PI - Andrea Acosta) - Identifying the Origin of the Roman Family: Bioarchaeology of Family Structure and Social Change in Iron Age Italy

4,650

Sponsor: Rust Family Foundation

PS PROJECT: 10009388

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

Baruch Institute

Smith, Erik

The North Inlet - Winyah Bay National Estuarine Research Reserve

770,800

Sponsor: Office for Coastal Management/NOAA/DOC

PS PROJECT: 10009356

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

Biological Sciences

Mousseau, Timothy

Radiation Effects on Pollen, Seeds and Plants

67,758

Sponsor: Southeastern Universities Research Association, Inc. (SURA)/NASA

PS PROJECT: 10009392

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

Chemistry & Biochemistry

Shustova, Natalia

Camille Dreyfus Teacher-Scholar Award

100,000

Sponsor: Camille & Henry Dreyfus Foundation, Inc.

PS PROJECT: 10009318

AWARD_PROJECT_AMT. IF AVAILABLE: 100,000

PROJECT YEARS: 5

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

July, 2019 New Awards

Criminology & Criminal Justice

Koons-Witt, Barbara

REU Site: Disparities in the Criminal Justice System

453,752

Sponsor: National Science Foundation (NSF)

PS PROJECT: 10009410

AWARD_PROJECT_AMT. IF AVAILABLE: 342,128

PROJECT YEARS: 3

History

Schulz, Constance

The Revolutionary Era Pinckney Statesmen of South Carolina: A Digital Documentary Edition

100,000

Sponsor: National Historical Publications & Records Commission (NHPRC)/National Archives & Records Administration

PS PROJECT: 10009418

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

Mathematics

Wang, Zhu

Efficient Numerical Simulations of Oceanic Flows with Application to Coastal Modeling

167,916

Sponsor: National Science Foundation (NSF)

PS PROJECT: 10009352

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 3

Psychology

Bradshaw, Jessica

Physiological Measurement of Attention as a Neurobehavioral Marker of Social Functioning and Emerging ASD Symptomology in Infancy

176,051

Sponsor: National Institute of Mental Health (NIMH)/NIH

PS PROJECT: 10009407

AWARD_PROJECT_AMT. IF AVAILABLE: 880,261

PROJECT YEARS: 5

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

July, 2019 New Awards

McQuillin, Samuel

Character and Thriving Among Kenyan Youth: A Novel Measure for Use with Street Children and Youth Enrolled in Schools 38,560

Sponsor: Maasai Mara University/Templeton World Charity Foundation

PS PROJECT: 10009346

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 2

School of Earth, Ocean & Env.

Leier, Andrew

Deconvolving the Southern South American Pleistocene–Holocene Dust Production Pathways 383,646

Sponsor: National Science Foundation (NSF)

PS PROJECT: 10009384

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 3

Scher, Howard

Collaborative Research: Organic and Inorganic Geochemical Investigation of Hydrologic Change in East Antarctica in the 4 Million Years Before Full Glaciation 163,991

Sponsor: National Science Foundation (NSF)

PS PROJECT: 10009383

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 2

College of Education

Education - Dean's Office

Ylimaki, Rose

Free and Equal: The Promise of Reconstruction in America 280,000

Sponsor: National Endowment for the Humanities (NEH)

PS PROJECT: 10009321

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 2

Office of Research
IT and Data Management Office

July, 2019 New Awards

Physical Education

Brian, Ali

*SKIPPING with PALS: Supporting Positive Trajectories of Health for Families of Rural
Preschool Children* 1,130,000

Sponsor: USC Educational Foundation/The Duke Endowment

PS PROJECT: 10009355

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 3

College of Engineering & Comp.

Chemical Engineering

Meekins, Benjamin

*Project 21: Macroscopic monolithic Pd/Graphene catalysts for regioselective
electrochemical oxidation of alkenes* 27,000

Sponsor: CeRCaS/Various Commercial

PS PROJECT: 10009413

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

Fuel Cell Catalyst Contamination Study 5,372

Sponsor: Nuvera Fuel Cells

PS PROJECT: 10009385

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

Monnier, John

*Project 22: Computational and Experimental Analysis of Ag Catalysts with GNP or
Bimetallic Materials on Direct Propylene Oxide Synthesis* 54,000

Sponsor: CeRCaS/Various Commercial

PS PROJECT: 10009414

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

Office of Research
IT and Data Management Office

July, 2019 New Awards

Regalbuto, John

Project 18: 3D Printed Catalysis Monolith Year 2: Rational Investigation of How Catalyst Synthesis Affects the Nanoparticle Surface Chemistry and Activity on 3dP Monoliths 54,000

Sponsor: CeRCaS/Various Commercial

PS PROJECT: 10009411
AWARD_PROJECT_AMT. IF AVAILABLE:
PROJECT YEARS: 1

Rapid Institute: Advanced Catalysts for Low Temperature Heavy Crude Upgrading 75,000

Sponsor: Clemson University/SC DOC/SRNL/DOE

PS PROJECT: 10009377
AWARD_PROJECT_AMT. IF AVAILABLE:
PROJECT YEARS: 2

Williams, Christopher

Project 23: Bimetallic Indium-Copper Catalysts for Hydrogenation of Syngas-Derived Dimethyl Oxalate to Ethylene Glycol 54,000

Sponsor: CeRCaS/Various Commercial

PS PROJECT: 10009415
AWARD_PROJECT_AMT. IF AVAILABLE:
PROJECT YEARS: 1

Civil & Environmental Eng.

Flora, Joseph

(PI - Moutoshi Saha) - Second year PhD study of Moutoshi Saha 49,977

Sponsor: Schlumberger Foundation Incorporation

PS PROJECT: 10009403
AWARD_PROJECT_AMT. IF AVAILABLE:
PROJECT YEARS: 1

Viparelli, Enrica

Experiments on the Influence of Suspended Bed Material at High Shear Stresses 25,000

Sponsor: ExxonMobil Upstream Research Company

PS PROJECT: 10009387
AWARD_PROJECT_AMT. IF AVAILABLE:
PROJECT YEARS: 1

Office of Research
IT and Data Management Office

July, 2019 New Awards

Computer Science & Engineering

Jamshidi, Pooyan

Robust Software Testing of Autonomous Aerospace Robotic Systems Using Transfer Learning 50,000

Sponsor: College of Charleston/NASA EPSCoR

PS PROJECT: 10009357

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

Electrical Engineering

Ali, Mohammad

Program Director for the Communications, Circuits, and Sensing Systems Program at NSF 199,119

Sponsor: National Science Foundation (NSF)

PS PROJECT: 10009316

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

Chandrashekhar, MVS

Cubic Boron Nitride: A New Extreme Semiconductor by Ion-Beam Assisted Chemical Vapor Deposition 20,000

Sponsor: Morgan State University/AFOSR/DOD

PS PROJECT: 10009422

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 3

IIT - Engineering

Crichigno, Jorge

CC Networking Infrastructure: Building a Science DMZ for Data-intensive Research and Computation at the University of South Carolina* 2,492,625

Sponsor: National Science Foundation (NSF)

PS PROJECT: 10009317

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 2

Office of Research
IT and Data Management Office

July, 2019 New Awards

Mechanical Engineering

Banerjee, Sourav

PVDF-Film for Robust Online Assessment of Composite Tanks (PROACT) 140,000

Sponsor: Advent Innovations/DOE

PS PROJECT: 10009404

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

Harik, Ramy

Experimental Evaluation of the Optimal AFP Process Parameters (Three Dimensional) Using Conventional and New Toray Materials 208,264

Sponsor: Toray

PS PROJECT: 10009325

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

neXt Application - Virtual Commissioning Approach to Smart Autonomous Manufacturing Strategies 100,000

Sponsor: South Carolina Research Authority (SCRA)

PS PROJECT: 10009353

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

Wang, Guiren

Facile and Rapid Detection for Life Exploration in Space by Nanofluidic Electrophoretic Devices 50,000

Sponsor: College of Charleston/NASA

PS PROJECT: 10009320

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

Yuan, Lang

Smart Additive Manufacturing Enabled by In-situ Sensing and Hybrid Computational Models 199,726

Sponsor: South Carolina Research Authority (SCRA)

PS PROJECT: 10009372

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

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

July, 2019 New Awards

College of Information & Comm.

Library & Information Sciences

Green, Lucilia

Educational Quality through Instructional Partnerships (EQuIP): Assessing the Efficacy of Collaboratively Implemented Guided Inquiry Design on K-12 Student Learning 376,107

Sponsor: Institute of Museum and Library Services (IMLS)

PS PROJECT: 10009329

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 3

College of Social Work

Social Work - Dean's Office

DeHart, Dana

Coordinating Healthcare for Correctional Agencies in Rural Settings: Needs Assessment 70,756

Sponsor: SC Center for Rural and Primary Healthcare/SCDHHS

PS PROJECT: 10009406

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

Flynn, Cynthia

Raising Awareness of Kinship Care 52,676

Sponsor: SC Department of Social Services (SCDSS)/ACF/HHS

PS PROJECT: 10009351

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

Darla Moore School of Business

Moore Sch - Div. of Research

Von Nessen, Joseph

S.C. Department of Agriculture - Certified SC Grown Analysis 55,000

Sponsor: SC Department of Agriculture (SCDA)

PS PROJECT: 10009393

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

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

July, 2019 New Awards

Facility Services

Environmental Services

Cook, Larry

DHEC Office of Solid Waste Reduction and Recycling FY2020 Collegiate Recycling Grant 12,500

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

PS PROJECT: 10009389

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

Hosp., Retail, & Sport Mgmt

Hotel, Restaurant & Tour Mgmt

DiPietro, Robin

University of Aruba Collaboration - Part III 170,856

Sponsor: University of Aruba

PS PROJECT: 10009333

AWARD_PROJECT_AMT. IF AVAILABLE: 854,280

PROJECT YEARS: 5

School of Medicine

Cell Biology & Anatomy

yin, rong

Targeting Port Wine Stain Blood Vessels by Endothelial Optical Exosomes 125,258

Sponsor: American Society for Laser Medicine & Surgery (ASLMS)

PS PROJECT: 10009347

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

Genetics

Edwards, Janice

SCDHEC Genetic Services to Medically Needy and Underserved 8,673

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

PS PROJECT: 10009350

AWARD_PROJECT_AMT. IF AVAILABLE: 173,476

PROJECT YEARS: 5

Office of Research
IT and Data Management Office

July, 2019 New Awards

Internal Medicine

Weissman, Sharon

DHEC Housing Opportunities for Persons with AIDS (HOPWA) Funding - Newberry County 42,000

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

PS PROJECT: 10009345

AWARD_PROJECT_AMT. IF AVAILABLE: 42,000

PROJECT YEARS: 5

Housing First Program for Persons with Disabilities 165,885

Sponsor: City of Columbia

PS PROJECT: 10009391

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

Pediatrics

Rotholz, David

Team for Early Childhood Solutions Data System Management and Compliance Indicator Analysis 445,000

Sponsor: South Carolina Department of Health and Human Services

PS PROJECT: 10009381

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

Pharm., Physiology & Neurology

Barlow, Shayne

Swine Procurement, Husbandry, and Maintenance for Dorn VA Medical Center 21,103

Sponsor: Department of Veterans Affairs

PS PROJECT: 10009354

AWARD_PROJECT_AMT. IF AVAILABLE: 156,776

PROJECT YEARS: 4

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

July, 2019 New Awards

School of Medicine (Grvl)

Medicine Greenville

Arce, Sergio

Improving the Diagnosis and Treatment of Multiple Myeloma Patients

20,000

Sponsor: Prisma Health-Upstate

PS PROJECT: 10009420

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

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

July, 2019 New Awards

University Advancement

Ofc of Economic Engagement

Hardaway, Chad

Acoustical-Visual-Blockchain AI Manufacturing Lab 50,000

Sponsor: SC Research Authority (SCRA)

PS PROJECT: 10009367

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

Health Innovation Lab 25,000

Sponsor: SC Research Authority (SCRA)

PS PROJECT: 10009368

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

Robotics In Pharma Project 50,000

Sponsor: South Carolina Research Authority (SCRA)

PS PROJECT: 10009369

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

Smart Appliance Lab 25,000

Sponsor: South Carolina Research Authority (SCRA)

PS PROJECT: 10009370

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

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

July, 2019 New Awards

University of SC Beaufort

BFT Hospitality Management

Calvert, Charles

A Vision for the Future: A Collaboration Between USC Beaufort and the Town of Hilton Head Island 548,085

Sponsor: Town of Hilton Head Island

PS PROJECT: 10009405

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

University of SC Sumter

Sumter

Reisenauer, Eric

Blue Cross/Blue Shield of South Carolina Fund to establish Nursing Simulations Labs at USC Sumter and USC Union 300,000

Sponsor: BlueCross BlueShield of South Carolina Foundation

PS PROJECT: 10009390

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

University of SC Upstate

USC Upstate Research

Waldrop, Susannah

Avanzando Through College 25,000

Sponsor: UnidosUS

PS PROJECT: 10009419

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

Report Total: \$11,347,319