Arts and Sciences, College of

**Anthropology**
Fogle, Kevin
Appomattox Court House Historic Park CESU - Archaeological Survey of Hannah Reynolds Site - (13590-FA12)

**Sponsor:** National Park Service/DOI
**Co-PI:**

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**Archaeology & Anthropology, SC Institute of**
Smith, Karen
Standardizing Archaeological Data Collection using the DAACS System, a Pilot Project, 2017 - (21300-FB07)

**Sponsor:** Office of the Adjutant General/DOD
**Co-PI:**

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On-Site Graduate Assistant for Cultural Resource Management at McCrady Training Facility, 2017-18 - (21300-FB08)

**Sponsor:** SC Army National Guard/DOD
**Co-PI:**

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**WILLARD HIRSCH PANEL CASTING AND DISPLAY - (21300-FL18)**

**Sponsor:** Office of the Adjutant General/DOD
**Co-PI:**

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Biological Sciences
Kathrein, Katie
A Screen for Epigenetic Regulators of Hematopoiesis Reveals a Requirement for the Hbo1 Complex during Hematopoietic Stem Cell Specification - (13010-FC56)  91,800
Sponsor: National Institute of Diabetes & Digestive & Kidney Diseases (NIDDK)/NIH
Co-PI:
AWARD_PROJECT_AMT. IF AVAILABLE: 242,509
PROJECT_YEARS: 2

Mousseau, Timothy
Medium and Large Wildlife Diversity and Abundance at the McCrady Training Site 2017-18 - (13010-FC57)  19,500
Sponsor: Adjutant General, SC National Guard/DOD
Co-PI:
AWARD_PROJECT_AMT. IF AVAILABLE: 0
PROJECT_YEARS: 1

Chemistry & Biochemistry
Benicewicz, Brian
Using Crystallization to Control Filler Dispersion and Vice Versa in Polymer Nanocomposites - (13020-FC99)  109,912
Sponsor: Department of Energy/DOE
Co-PI:
AWARD_PROJECT_AMT. IF AVAILABLE: 329,736
PROJECT_YEARS: 3

Richardson, Susan
Collaborative Research: Fundamental Understanding of the Environmental Fate of Disinfection By-Products arising from Desalination Plants - (13020-FC97)  154,408
Sponsor: National Science Foundation (NSF)
Co-PI:
AWARD_PROJECT_AMT. IF AVAILABLE: 0
PROJECT_YEARS: 3

Earth and Ocean Sciences
White, Scott
Congaree River Freshwater Mussel Habitat Survey - (21610-FA11)  19,517
Sponsor: US Fish & Wildlife Service/DOI
Co-PI:
AWARD_PROJECT_AMT. IF AVAILABLE: 0
PROJECT_YEARS: 1
English
Dubinsky, Stanley
American (Jewish) Humor in an Era of Ethnic Sensitivity and Cultural Competence - (12530-FL06)
Sponsor: South Carolina Humanities Council/NEH
Co-PI:  
AWARD_PROJECT_AMT. IF AVAILABLE: 0
PROJECT_YEARS: 1

Geography
Hiscox, April
COLLABORATIVE RESEARCH: SAVANT: Stable Atmospheric Variability ANd Transport - (13540-FB45)
Sponsor: National Science Foundation (NSF)
Co-PI:  
AWARD_PROJECT_AMT. IF AVAILABLE: 410,685
PROJECT_YEARS: 3

History
Elfenbein, Jessica
Congaree National Park Historic Resource Survey - (12060-FA04)
Sponsor: National Park Service/DOI
Co-PI:  
AWARD_PROJECT_AMT. IF AVAILABLE: 0
PROJECT_YEARS: 2

Schulz, Constance
Papers of the Revolutionary Era Pinckney Statesmen, Phase 3 - (13550-FA25)
Sponsor: National Historical Publications and Records Commission
Co-PI:  
AWARD_PROJECT_AMT. IF AVAILABLE: 0
PROJECT_YEARS: 1

Mathematics
Lu, Linyuan
Hypergraph-based Causal Modeling - (21400-FA43)
Sponsor: Office of Naval Research (ONR)
Co-PI:  
AWARD_PROJECT_AMT. IF AVAILABLE: 100,000
PROJECT_YEARS: 1
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<td>Weist, Mark</td>
<td>219,640</td>
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Business, Moore School of

Business, Moore School of - Division of Research
Sheldon, Tamara
Designing Light-Duty Vehicle Incentives for Low- and Moderate-Income Households - (21200-LA06)

**Sponsor:** UCLA/California Air Resources Board

Co-PI:

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Von Nessen, Joseph

SCRA Economic Impact Analysis - FY17 - (21200-GA44)

**Sponsor:** SC Research Authority (SCRA)

Co-PI:

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OceanaGold Corporation: The Economic Impact of the Haile Gold Mine - (21200-JA33)

**Sponsor:** OCEANAGOLD EXPLORATION

Co-PI:

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EngenuitySC: 2017 Midlands Regional Competitiveness Report - (21200-KA47)

**Sponsor:** EngenuitySC

Co-PI:

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Engineering & Computing, College of

Chemical Engineering
Jabbarzadeh, Ehsan

Type I: University of South Carolina I-Corps Site for Entrepreneurship - (15510-FC96)

**Sponsor:** National Science Foundation (NSF)

Co-PI:

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Office of Research
IT and Data Management Office
August, 2017   New Awards

Meekins, Benjamin
High Throughput Combinatorial Screening of Metal Nitrides, Metal Oxynitrides, and Metal Oxysulfides for Solar Fuel Conversions - ( 15510-FC97 )
Sponsor: SC Space Grant Consortium/NASA
Co-PI:
AWARD_PROJECT_AMT. IF AVAILABLE: 0
PROJECT_YEARS: 1

Civil & Environmental Engineering
Caicedo, Juan
REU SITE: Collaborative Research: Integrated Academia-Industry Research Experience for Undergraduate in Smart Structure Technology (IAIRESST) - ( 15520-FB45 )
Sponsor: National Science Foundation (NSF)
Co-PI:
AWARD_PROJECT_AMT. IF AVAILABLE: 0
PROJECT_YEARS: 3

Computer Science & Engineering
Valtorta, Marco
Hypergraph-based Causal Modeling - ( 15590-FB33 )
Sponsor: Office of Naval Research (ONR)
Co-PI:
AWARD_PROJECT_AMT. IF AVAILABLE: 0
PROJECT_YEARS: 1

Electrical Engineering
Chandrashekhar, MVS
Minority Carriers in Graphene/SiC Schottky Emitter Bipolar Phototransistors for High Gain Visible Blind UV Detection - ( 15530-FB78 )
Sponsor: National Science Foundation (NSF)
Co-PI:
AWARD_PROJECT_AMT. IF AVAILABLE: 0
PROJECT_YEARS: 3

Wang, Xiaofeng
CPS: Medium: Collaborative Research: Against Coordinated Cyber and Physical Attacks: Unified Theory and Technologies - ( 15530-FB79 )
Sponsor: National Science Foundation (NSF)
Co-PI:
AWARD_PROJECT_AMT. IF AVAILABLE: 0
PROJECT_YEARS: 3
Zhang, Bin  
*Operation-Aware ISHM for Environmental Control and Life Support in Deep Space Habitants - ( 15530-FB80 )*  

**Sponsor:** Global Technology Connection/NASA  
**Co-PI:**  

| AWARD_PROJECT_AMT. IF AVAILABLE: | 0 |  
| PROJECT_YEARS: | 1 |  

**Mechanical Engineering**  
Bayoumi, Abdel  
*System of Systems Control Interactions - ( 15540-FD53 )*  

**Sponsor:** GTD/Missle Defense Agency/DOD  
**Co-PI:**  

| AWARD_PROJECT_AMT. IF AVAILABLE: | 0 |  
| PROJECT_YEARS: | 2 |  

Farouk, Tanvir  
*Plasma Discharge in Liquids: Understanding the Initiation and Formation Mechanisms of Non-Thermal Plasma in Dense Medium - ( 15540-FD51 )*  

**Sponsor:** National Science Foundation (NSF)  
**Co-PI:**  

| AWARD_PROJECT_AMT. IF AVAILABLE: | 0 |  
| PROJECT_YEARS: | 3 |  

Giurgiutiu, Victor  
*Experimental and Analytical Study of Low Amplitude AE signals due to Rubbing/Clapping of Crack Faying Surfaces - ( 15540-FD52 )*  

**Sponsor:** Office of Naval Research (ONR)  
**Co-PI:**  

| AWARD_PROJECT_AMT. IF AVAILABLE: | 450,000 |  
| PROJECT_YEARS: | 3 |  

van Tooren, Michael  
*Quality Control of Induction Welding of Thermoplastic Composites using Temperature Sensing with Dissolvable Coating equipped Optical Fibers - ( 15540-KA36 )*  

**Sponsor:** SC Research Authority (SCRA)  
**Co-PI:**  

| AWARD_PROJECT_AMT. IF AVAILABLE: | 0 |  
| PROJECT_YEARS: | 1 |
Hospitality, Retail & Sport Management, College of Sport & Entertainment Management

Ballouli, Khalid

A Comprehensive Visitor Profile, Economic Impact, and Day Groups Study for Patriots Point and the USS Yorktown: Seasonal Data Collection - (14030-GA03)

Sponsor: Patriots Point Naval & Maritime Museum
Co-PI: 

AWARD_PROJECT_AMT. IF AVAILABLE: 0
PROJECT_YEARS: 1

25,000

Medicine, School of Family & Preventive Medicine

Bennett, Kevin

Evaluation of the Network Development Grant, Upper Midlands Rural Health Network - (18130-FA33)

Sponsor: Upper Midlands Rural Health Network/HRSA
Co-PI: 

AWARD_PROJECT_AMT. IF AVAILABLE: 75,000
PROJECT_YEARS: 3

25,000

Internal Medicine

Wilson, Beverly

FoodShare Produce Box Expansion - (18190-GQ00)

Sponsor: South Carolina Department of Agriculture
Co-PI: 

AWARD_PROJECT_AMT. IF AVAILABLE: 0
PROJECT_YEARS: 1

37,553

Neurology

Sen, Souvik

DEFUSE3: Endovascular Therapy Following Imaging Evaluation for Ischemic Stroke 3 - (18450-FA11)

Sponsor: Palmetto Health/NIH
Co-PI: 

AWARD_PROJECT_AMT. IF AVAILABLE: 0
PROJECT_YEARS: 5

5,410
Obstetrics & Gynecology
Burgis, Judith
The Choose Well Initiative - (18110-KL03) 8,420

Sponsor: Palmetto Health/New Morning Foundation
Co-PI:

AWARD_PROJECT_AMT. IF AVAILABLE: 0
PROJECT_YEARS: 1

Pathology, Microbiology and Immunology
Velazquez, Kandy
The Effects of Ojeok-San on Neuro-Immune Interactions in Cancer-Induced Visceral Pain - (18060-FB41) 106,648

Sponsor: National Center for Complementary & Integrative Health (NCIH)/NIH
Co-PI:

AWARD_PROJECT_AMT. IF AVAILABLE: 213,296
PROJECT_YEARS: 5

Pediatrics
Cramer, Stuart
COG-Study Chair NIH Phase 1 Grant (UM1CA097452) - (18140-FA26) 15,000

Sponsor: COG - Children's Hospital of Philadelphia
Co-PI:

AWARD_PROJECT_AMT. IF AVAILABLE: 0
PROJECT_YEARS: 1

Rotholz, David
Team for Early Childhood Solutions Data Systems Management and Compliance Indicator Analysis - (18140-FJ51) 500,000

Sponsor: SC Department of Health & Human Services/HHS
Co-PI:

AWARD_PROJECT_AMT. IF AVAILABLE: 0
PROJECT_YEARS: 1
### Nursing, College of

**Nursing**

**Donevant, Sara**

*An Evidence-Based Evaluation Tool to Assist Health Care Providers in Their Assessment of Effective mHealth Applications of the Management of Chronic Health Conditions* - (11200-FA30)

**Sponsor:** National Library of Medicine (NLM)/NIH

**Co-PI:**

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**Estrada, Robin**

*A Patient-Centered Asthma Management Communication Intervention for Rural Latino Children* - (11200-FA29)

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

**Co-PI:**

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**McDonnell, Karen**

*Memorandum of Understanding Between Lung Cancer Alliance and University of South Carolina for Collaboration on a Lung Cancer Support Group* - (11200-KL07)

**Sponsor:** Lung Cancer Alliance (LCA)

**Co-PI:**

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### Pharmacy, SC College of

**Drug Discovery and Biomedical Sciences**

**Broude, Eugenia**

*CDK8/19 inhibitor for the treatment of HER2+ breast cancer* - (11110-FA95)

**Sponsor:** Senex Biotechnology, Inc./NIH

**Co-PI:**

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Kiaris, Hippokratis
RII Track-2 FEC-Genome to fitness: An analysis of the stress response in Peromyscus - (11110-FA94) 1,931,443
Sponsor: National Science Foundation (NSF)
Co-PI: AWARD_PROJECT_AMT. IF AVAILABLE: 3,898,499
PROJECT_YEARS: 4

Support for the Peromyscus Genetic Stock Center - (22060-FA04) 185,000
Sponsor: National Science Foundation (NSF)
Co-PI: AWARD_PROJECT_AMT. IF AVAILABLE: 0
PROJECT_YEARS: 1

Public Health, Arnold School of
Environmental Health Sciences
Kloot, Robin
The CIG that Changed My Life– Capturing Value of Cover Crops and Soil Health - (11510-FB85) 100,000
Sponsor: Natural Resources Conservation Services/USDA
Co-PI: AWARD_PROJECT_AMT. IF AVAILABLE: 0
PROJECT_YEARS: 1

Merit or Myth Social Media Platform to Advance Soil Health in South Dakota - (11510-FL12) 16,250
Sponsor: USDA Natural Resources Conservation Service
Co-PI: AWARD_PROJECT_AMT. IF AVAILABLE: 0
PROJECT_YEARS: 2

Five Acres in the Back 40 - Soil Health Technical Support and Education for Limited Resource and Minority South Carolina Farmers - (11510-FL13) 299,802
Sponsor: Natural Resources Conservation Services/USDA
Co-PI: AWARD_PROJECT_AMT. IF AVAILABLE: 0
PROJECT_YEARS: 3
## Epidemiology & Biostatistics

**McDermott, Suzanne**  
*Coordinating Center for Research to Promote the Health of Children with Birth Defects and People with Developmental and Other Disabilities* - (11520-FB61)  
*Sponsor:* National Center for Birth Defects & Developmental Disabilities/(CDC)  
*AWARD_PROJECT_AMT. IF AVAILABLE:* 2,079,680  
*PROJECT_YEARS:* 5

## Exercise Science

**Herter, Troy**  
*Abnormal Visual Search And Motor Function In Stroke* - (11530-KA63)  
*Sponsor:* American Heart Association  
*AWARD_PROJECT_AMT. IF AVAILABLE:* 0  
*PROJECT_YEARS:* 2

## Weaver, Glenn

*Interventions to Promote Healthy Lifestyle and Academic Performance in Children during the Summer Months* - (11530-FB24)  
*Sponsor:* National Institute of Child Health & Human Services (NICHS)/NIH  
*AWARD_PROJECT_AMT. IF AVAILABLE:* 404,788  
*PROJECT_YEARS:* 2

## Health Promotion, Education & Behavior

**Macauda, Mark**  
*Evaluation Services for The Mary Black Foundation's Healthy Families Initiative Year 1 Implementation* - July 1, 2017- December 31, 2017 - (11580-KA17)  
*Sponsor:* Mary Black Foundation  
*AWARD_PROJECT_AMT. IF AVAILABLE:* 0  
*PROJECT_YEARS:* 1
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<td>Creating a School Quality Indicators Database to Enhance the RWJF County Health Rankings - ( 11540-KA62 )</td>
<td>University of Wisconsin Population Health Institute/ Robert Wood Johnson Foundation</td>
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<td>MAXWELL STAMP PLC: Contract for the Supply of Consultant Services - ( 11550-LL13 )</td>
<td>Maxwell Stamp PLC</td>
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<td>Community Support for Young Parents (CSYP) Evaluation - ( 11550-FL43 )</td>
<td>Children's Trust/Office of Adolescent Health/HHS</td>
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<td>Radcliff, Elizabeth</td>
<td>PASOs Cultural Competence Services- DHHS bid - ( 11500-FJ42 )</td>
<td>SC Department of Health and Human Services/HHS</td>
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<td>PASOs-Reach Out and Read Lowcountry Expansions - ( 11500-KL58 )</td>
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Social Work, College of

Social Work, College of
Flynn, Cynthia
SC Department of Health and Human Services and the Center for Child and Family StudiesMedicaid Training for HHS Staff - (15900-FJ86)

Sponsor: SC Department of Health and Human Services/HHS
Co-PI: AWARD_PROJECT_AMT. IF AVAILABLE: 0
PROJECT_YEARS: 1

Seay, Kristen
Developing a Health and Education Information Exchange for Children & Youth in Foster Care in South Carolina - (15900-KA36)

Sponsor: USC Educational Foundation/The Duke Endowment Child Care Division
Co-PI: AWARD_PROJECT_AMT. IF AVAILABLE: 0
PROJECT_YEARS: 3

USC Aiken

USC Aiken
Beck, Judy
SC CREATE 2017-2018 - (17110-FX00)

Sponsor: SC Department of Education - Office of Special Education Services/USDE
Co-PI: AWARD_PROJECT_AMT. IF AVAILABLE: 0
PROJECT_YEARS: 1

USC Beaufort

USC Beaufort - General
Morris, Brent
America’s Reconstruction: The Untold Story - (17220-FL22)

Sponsor: National Endowment for the Humanities (NEH)
Co-PI: AWARD_PROJECT_AMT. IF AVAILABLE: 0
PROJECT_YEARS: 2
Report Total: $9,354,833