

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

**June, 2017 New Awards**

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**Arts and Sciences, College of**

**Archaeology & Anthropology, SC Institute of**

**King, Adam**

*Technique Development for Caffeinated Beverage Identification - ( 21300-FB06 )* 93,274

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

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE: 0

PROJECT\_YEARS: 3

**Chemistry & Biochemistry**

**zur Loye, Hans-Conrad**

*Site Review of SRNL - ( 13020-FL05 )* 9,480

**Sponsor:** Clemson/Savannah River Nuclear Laboratory/DOE

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE: 0

PROJECT\_YEARS: 1

**Earth and Ocean Sciences**

**Lakshmi, Venkataraman**

*Intergovernmental Personnel Act (IPA)- National Science Foundation - ( 21610-FL01 )* 175,361

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

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE: 0

PROJECT\_YEARS: 1

**Wilson, Alicia**

*Girls Go for I.T. Summer Camp - ( 21610-KJ00 )* 1,000

**Sponsor:** National Center for Women and IT

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE: 0

PROJECT\_YEARS: 1

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**Mathematics**

**Binev, Peter**

*Optimal Convergence Rates for hp-Adaptivity - ( 21400-FA42 )* 275,000

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

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE: 0

PROJECT\_YEARS: 3

**Wang, Qi**

*Site Review of SRNL - ( 13060-FL06 )* 7,013

**Sponsor:** Clemson/Savannah River Nuclear Laboratory/DOE

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE: 0

PROJECT\_YEARS: 1

**Yang, Xiaofeng**

*Collaborative Research: Efficient, Stable and Accurate Numerical Algorithms for a class of Gradient Flow Systems and their Applications - ( 21400-FA41 )* 159,996

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

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE: 0

PROJECT\_YEARS: 3

**Yee, Sean**

*Collaborative Research: Mathematics Graduate Student Peer-Mentorship Program: Impact and Adaptability - ( 15250-FA33 )* 180,415

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

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE: 0

PROJECT\_YEARS: 3

**Physics & Astronomy**

**Rodney, Steven**

*Rare and Peculiar Stellar Explosions with the Next Generation of Space Telescopes - ( 13070-FB63 )* 24,991

**Sponsor:** College of Charleston/NASA

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE: 0

PROJECT\_YEARS: 1

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**Psychology**

**Maydeu-Olivares, Alberto**

*Standardized Goodness of Fit Assessment and Power Computations in Structural Equation Models - ( 13580-FB53 )* 350,000

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

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE: 0  
PROJECT\_YEARS: 3

**Business, Moore School of**

**Business, Moore School of - Division of Research**

**Woodward, Douglas**

*The Economic Impact of BMW Manufacturing on South Carolina and the United States - ( 21200-JA32 )* 47,000

**Sponsor:** BMW Manufacturing Company, LLC

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE: 0  
PROJECT\_YEARS: 1

**Education, College of**

**Instruction & Teacher Education**

**Williams, Toni**

*Girls Go for I.T. Summer Camp - ( 15250-KJ02 )* 1,000

**Sponsor:** National Center for Women and IT

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE: 0  
PROJECT\_YEARS: 1

**Engineering & Computing, College of**

**Chemical Engineering**

**Ritter, James**

*Roadmap Development for RAPID. Intensified Process Fundamentals - ( 15510-FC95 )* 30,000

**Sponsor:** American Institute of Chemical Engineers (AICE)/DOE

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE: 0  
PROJECT\_YEARS: 1

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**Civil & Environmental Engineering**

**Huynh, Nathan**

*Targeted Infusion Project: Infusion of Active and Problem-Based Learning for Teaching and Research in the Context of Transportation Disruptive Technologies - ( 15520-FB43 )* 104,633

**Sponsor:** Benedict College/NSF

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE: 0  
PROJECT\_YEARS: 3

**Computer Science & Engineering**

**Farkas, Csilla**

*South Carolina Center for Cybersecurity Innovation (SC3I) - ( 15590-GA03 )* 180,975

**Sponsor:** SC Department of Commerce

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE: 0  
PROJECT\_YEARS: 1

**Electrical Engineering**

**Matolak, David**

*University Leadership Initiative: Hyper-Spectral Communications, Networking & ATM as Foundation for Safe and Efficient Future Flight: Transcending Aviation Operational Limitations with Diverse and Secure Multi-Band, Multi-Mode, and mmWave Wireless Links -* 1,100,000

**Sponsor:** National Aeronautics & Space Administration (NASA)

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE: 4,474,105  
PROJECT\_YEARS: 3

**Mechanical Engineering**

**Giurgiutiu, Victor**

*USC contribution to IAI SBIR proposal to NASA 2017 - ( 15540-FD46 )* 10,000

**Sponsor:** Intelligent Automation, Inc./NASA

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE: 0  
PROJECT\_YEARS: 1

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**Scopatz, Anthony**

*Cyclus Community Manager - ( 15540-FD47 )*

91,669

**Sponsor:** Battelle Energy Alliance, LLC/DOE

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE: 0

PROJECT\_YEARS: 3

**Hospitality, Retail & Sport Management, College of**

***Integrated Information Technology***

**Schooley, Benjamin**

*South Carolina Center for Cybersecurity Innovation (SC3I) - ( 14070-GA00 )*

67,932

**Sponsor:** SC Department of Commerce

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE: 0

PROJECT\_YEARS: 1

**Law, School of**

***Children's Law Center***

**Morris, Carolyn**

*S.C. Department of Juvenile Justice Contract - ( 15810-GJ00 )*

300,000

**Sponsor:** S.C. Department of Juvenile Justice

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE: 0

PROJECT\_YEARS: 1

**Medicine, School of**

***Basic Science Research***

**Allen, Amy**

*White Coat Ceremony for the Physician Assistant Program - ( 18090-KJ00 )*

1,000

**Sponsor:** Arnold P. Gold Foundation

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE: 0

PROJECT\_YEARS: 1

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**Cell Biology & Anatomy**

**Azhar, Mohamad**

*Role of TGFbeta Ligands in Development and Progression of Aneurysm - ( 18020-KA41 )* 77,000

**Sponsor:** American Heart Association

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE: 154,000

PROJECT\_YEARS: 2

**Eberth, John**

*Theranostic approach to treat abdominal aortic aneurysms - ( 18020-FB61 )* 114,886

**Sponsor:** Clemson University/NIH

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE: 458,622

PROJECT\_YEARS: 4

**Internal Medicine**

**Gripaldo, Ria**

*A double blind, randomized, placebo-controlled trial evaluating the efficacy and safety of nintedanib over 52 weeks in patients with Progressive Fibrosing Interstitial Lung Disease (PF-ILD) - (Clinical Trial Protocol for BI Trial No. 1199.247) - ( 18190-* 3,050

**Sponsor:** Palmetto Health/Boehringer Ingelheim Pharmaceuticals, Inc.

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE: 0

PROJECT\_YEARS: 3

**Wilson, Beverly**

*Community Cooks: Creating a New Sense of Connection in a Public Housing Neighborhood through the Creation of a Community Kitchen & Evaluation of Self-Efficacy on Cooking Skills - ( 18190-KQ00 )* 75,000

**Sponsor:** Central Carolina Community Foundation

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE: 0

PROJECT\_YEARS: 1

**Obstetrics & Gynecology**

**Huegel, Beverly**

*Centering Pregnancy - ( 18110-KA10 )* 130,000

**Sponsor:** USC Educational Foundation/The Duke Endowment

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE: 270,000

PROJECT\_YEARS: 3

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**Pharmacology, Physiology & Neuroscience**

**Finnell, Julie**

*Protein Tyrosine Phosphatases as Critical Mediators of Stress Susceptibility - ( 18080-KA52 )* 26,844

**Sponsor:** American Heart Association

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE: 53,688  
PROJECT\_YEARS: 2

**Nursing, College of**

**Nursing**

**Burgess, Stephanie**

*Advanced Nursing Education Work Force (ANEW) HRSA-17-067 - ( 11200-FJ27 )* 505,501

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

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE: 988,502  
PROJECT\_YEARS: 2

**Pharmacy, SC College of**

**Drug Discovery and Biomedical Sciences**

**McInnes, Campbell**

*Novel Chemical Biology Probes based on Selective Inhibitors of the Polo-Box Domain of PLK1 - ( 11110-FA93 )* 71,623

**Sponsor:** National Cancer Institute (NCI)/NIH

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE: 0  
PROJECT\_YEARS: 2

**Public Health, Arnold School of**

**Epidemiology & Biostatistics**

**Steck, Susan**

*Interdisciplinary Graduate Training Program in Cancer Disparities - ( 11520-KJ01 )* 135,000

**Sponsor:** Susan G. Komen Foundation

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE: 405,000  
PROJECT\_YEARS: 3

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**Xiao, Feifei**

*Collaborative Research: Scalable and Flexible Algorithms to Detect Structural Change in Complex Sequence Data - ( 11520-FB59 )* 47,484

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

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE: 0  
PROJECT\_YEARS: 3

**Exercise Science**

**Beattie, Paul**

*The Effects of Spinal Manipulative Therapy on Functional Connectivity within Three Key Motor Regions within the Cerebral Cortex in People with Low Back Pain - ( 11530-KA62 )* 22,000

**Sponsor:** Orthopedic Section of the American Physical Therapy Association

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE: 0  
PROJECT\_YEARS: 2

**Health Promotion, Education & Behavior**

**Conserve, Donaldson**

*K99/R00 Grant Transfer Application: Acceptability and Feasibility of Unsupervised HIV Self-Testing Among Networks of Men in Tanzania - ( 11540-FJ16 )* 83,050

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

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE: 0  
PROJECT\_YEARS: 1

**Health Services Policy and Management**

**Patterson, Nathaniel**

*Infrastructure and Programmatic Support for the SC Institute of Medicine and Public Health - ( 11500-KA20 )* 475,000

**Sponsor:** USC Educational Foundation/The Duke Endowment

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE: 875,000  
PROJECT\_YEARS: 3



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**Public Health, Arnold School of - Dean**

**Kenison, Kelli**

*Evaluation of Culinary Partners Collaboration - ( 11580-KL08 )* 29,829

**Sponsor:** Culinary Partners, Inc.

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE: 0  
PROJECT\_YEARS: 1

**Smithwick, Julie**

*Boosting our Barrio- PASOs Central Office Support - ( 11500-KL55 )* 15,000

**Sponsor:** Medical University of SC/Duke Endowment

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE: 35,000  
PROJECT\_YEARS: 1

*Enhancing PASOs' Capacity to Lead the Way through Statewide Leadership and Sustainability - ( 11500-KL56 )* 140,000

**Sponsor:** USC Educational Foundation/The Duke Endowment

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE: 240,000  
PROJECT\_YEARS: 3

*PASOs: Building the Capacity of Latino Immigrant Leaders - ( 11500-KL57 )* 45,000

**Sponsor:** The Sisters of Charity Foundation of SC

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE: 0  
PROJECT\_YEARS: 1

**Social Work, College of**

**Families in Society, Institute for**

**Lopez-DeFede, Ana**

*SC Department of Health and Human Services Policy and Health Services Consultation Activities - ( 10010-FA64 )* 1,011,300

**Sponsor:** SC Department of Health and Human Services/HHS

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE: 0  
PROJECT\_YEARS: 5

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**Student Affairs, Division of**

**Student Health**

**Knight, Jacqueline**

*Choose Well Initiative for LARCs - ( 71000-KL12 )* 30,000

**Sponsor:** SC Campaign to Prevent Teen Pregnancy/New Morning Foundation

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE: 0

PROJECT\_YEARS: 4

**USC Aiken**

**USC Aiken**

**Shervette, Virginia**

*NOAA MARFIN and CRP: Assessment of Maturity in Commercially and Recreationally Important Reef Fishes from the U.S. Virgin Islands and Puerto Rico - ( 17110-FA66 )* 189,139

**Sponsor:** Virginia Institute of Marine Sciences/NOAA

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE: 0

PROJECT\_YEARS: 1

**USC Upstate**

**USC Upstate**

**Bucher, Mary**

*Choose Well USC Upstate - ( 17880-KJ10 )* 15,000

**Sponsor:** SC Campaign to Prevent Teen Pregnancy/New Morning Foundation

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE: 0

PROJECT\_YEARS: 1

**Hall, Garrison**

*Carolina Eclipse Initiative: DREAM2EXPLORE Workshop - ( 17880-FJ56 )* 1,409

**Sponsor:** College of Charleston/NASA

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE: 0

PROJECT\_YEARS: 1

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**Report Total: \$6,453,854**