

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

April, 2018 New Awards

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**Arnold School of Public Health**

***Environmental Health Sciences***

**Chanda, Anindya**

*Retrospective Assessment of Microbial Infections in Traumatic Spinal Cord Injured (TSCI) Population - ( 11510-GA01 )* 29,595

**Sponsor:** SC Spinal Cord Injury Research Fund/MUSC

**Co-PI:**

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

***Health Prom., Educ. & Behavior***

**Moore, Douglas**

*Resilience and cellular health among South Carolina women: Dopsychosocial factors protect against the adverse impact of stress on cellular aging processes? - ( 11540-KA69 )* 19,952

**Sponsor:** Greenville Health System (GHS) Health Sciences Center

**Co-PI:**

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

**Thrasher, James**

*Pilot Award: Cross-validation of auction modalities to assess demand for emerging nicotine products - ( 11540-FA93 )* 24,997

**Sponsor:** University of Waterloo/NIH

**Co-PI:**

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

**College of Arts and Sciences**

***Archaeology & Anthropology***

**Smith, Steven**

*Stark Farms Metal Detecting Survey 2018 - ( 21300-LA08 )* 4,170

**Sponsor:** The Chickasaw Nation

**Co-PI:**

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

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**Baruch Institute**

**Miller, Gwen**

*Estimating Above Ground Biomass Utilizing Planet Multispectral Satellite Data - ( 21600-  
KA92 )* 1,200

**Sponsor:** Slocum-Lunz Foundation

**Co-PI:**

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

**Biological Sciences**

**Patel, Priyanka**

*Manipulation of the local translation of Rho GTPases in axons to support axon  
regeneration - ( 13010-KJ03 )* 145,200

**Sponsor:** Wings For Life - Spinal Cord Research Foundation Inc.

**Co-PI:**

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

**Patel, Rekha**

*Dysregulation of the PACT-mediated crosstalk between protein kinases PKR and PERK  
contributes to dystonia 16 (DYT16). - ( 13010-FC65 )* 292,705

**Sponsor:** US Army Med Research ACQ Activity/DOD

**Co-PI:**

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

**Chemistry & Biochemistry**

**Tang, Chuanbing**

*ACS PROJECT SEED 2018 - Summer 2 - ( 13020-KB09 )* 10,000

**Sponsor:** American Chemical Society (ACS)

**Co-PI:**

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

**zur Loye, Hans-Conrad**

*New Lanthanide-Containing Silicate Fluoride Scintillators for Radiation Detection - ( 13020-  
FD09 )* 499,773

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

**Co-PI:**

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

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**Earth & Ocean Sciences**

**Lang, Susan**

*Modifications to Large Volume Sampler for improved hydrothermal fluid sampling - ( 21610-KA00 )* 17,920

**Sponsor:** Marine Biological Laboratory/Alfred P. Sloan Foundation

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE: 35,840

PROJECT\_YEARS: 1

**Geography**

**Cutter, Susan**

*Collaboration with Chr. Michelsen Institute, Norway: Creating a political and social climate for climate change adaptation - ( 13540-LL00 )* 32,815

**Sponsor:** Chr. Michelsen Institute/National Research Council of Norway

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE:

PROJECT\_YEARS: 3

**Mathematics**

**Thorne, Frank**

*Simons Fellowship: Analytic Number Theory and Arithmetic Statistics - ( 13060-KA14 )* 52,838

**Sponsor:** Simons Foundation

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE:

PROJECT\_YEARS: 1

**Statistics**

**Edwards, Donald**

*Improving Accuracy and Reliability in Cancer Screening Tests - ( 13080-FA36 )* 22,875

**Sponsor:** Trustees of Boston University/NIH

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE: 91,500

PROJECT\_YEARS: 4

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**College of Education**

**Educational Studies**

**Kunz, Gina**

*School Psychology Specialization in Toddlers with Autism Spectrum Disorders - ( 15200-FJ02 )* 22,094

**Sponsor:** University of Nebraska Lincoln/USDE

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE: 44,200  
PROJECT\_YEARS: 1

*Building Bridges Through Relationships (Building Bridges: A High School Dropout Prevention Program) - ( 15200-KA00 )* 3,900

**Sponsor:** University of Nebraska - Lincoln/Woods Charitable Foundation

**Co-PI:**

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

**College of Engineering & Comp.**

**Chemical Engineering**

**Ritter, James**

*MFES for High throughput Modular Process Intensified Gas Separation and Ion Exchange (Matching funds for 15510-18-48593) - ( 15510-GQ00 )* 100,000

**Sponsor:** Clemson/Department of Commerce

**Co-PI:**

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

**Shimpalee, Sirivatch**

*Numerical simulation of multiphase behaviour in state of the art alkaline water electrolyzer - ( 15510-LA04 )* 162,000

**Sponsor:** Korean Institute of Energy Research (KIER)

**Co-PI:**

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

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**Weidner, John**  
*High Performance Li-S Batteries - ( 15510-GA26 )* 35,000

**Sponsor:** Clemson/SC EPSCoR

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE: 70,000

PROJECT\_YEARS: 2

**Civil & Environmental Eng.**

**Viparelli, Enrica**  
*Development of ALGE code - ( 15520-FB57 )* 3,760

**Sponsor:** Savannah River National Laboratory/DOE

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE:

PROJECT\_YEARS: 1

**Computer Science & Engineering**

**Bakos, Jason**  
*Data Analysis, Computer Vision, and Machine Learning for Plutonium Canister Corrosion Surveillance - ( 15590-FB35 )* 44,966

**Sponsor:** Savannah River National Laboratory/DOE

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE:

PROJECT\_YEARS: 1

**Yan, Yonghong**  
*NSF CCF-1551182 SHF:Small:Collaborative Research: Application-aware Energy Modeling and Power Management for Parallel and High Performance Computing (Project Transfer from Oakland University to University of South Carolina) - ( 15590-FB36 )* 107,790

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

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE:

PROJECT\_YEARS: 1

*CAREER: Programming the Existing and Emerging Memory Systems for Extreme-scale Parallel Performance (Project Transfer from Oakland University to SC) - ( 15590-FB38 )* 218,063

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

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE: 582,770

PROJECT\_YEARS: 5

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**Mechanical Engineering**

**Harik, Ramy**

*Research Scientist in Automated Fiber Placement and Associate Technologies - ( 15540-FD74 )* 124,621

**Sponsor:** National Institute of Aerospace Associates (NIA)/NASA

**Co-PI:**

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

**Darla Moore School of Business**

**Moore Sch - Div. of Research**

**Von Nessen, Joseph**

*BlueCross BlueShield of South Carolina - Economic Impact Analysis - ( 21200-JA34 )* 49,250

**Sponsor:** BlueCross BlueShield of S.C.

**Co-PI:**

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

**Div. of Information Technology**

**Office of CIO**

**Torkian, Behzad**

*Data Analysis, Computer Vision, and Machine Learning for Plutonium Canister Corrosion Surveillance - ( 65100-FA00 )* 21,975

**Sponsor:** Savannah River National Laboratory/DOE

**Co-PI:**

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

**International Programs**

**English for Internationals**

**Curtis, Wesley**

*Study of U.S. Institutes for Student Leaders from Europe Institute in Civic Engagement - ( 25300-FJ07 )* 143,134

**Sponsor:** FHI 360/US Department of State

**Co-PI:**

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

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**Law Enforcement & Safety**

**Law Enforc. & Safety**

**Culp, Erin**

*Firehouse First Responders Grant Proposal - ( 66000-KQ00 )* 26,670

**Sponsor:** Firehouse Subs Public Safety Foundation, Inc.

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE:

PROJECT\_YEARS: 1

**School of Medicine**

**Internal Medicine**

**Ahuja, Divya**

*AETC National Coordinating Resource Center- Hepatitis C - ( 18190-FJ44 )* 25,000

**Sponsor:** Vanderbilt University Medical Center/Rutgers/HRSA

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE:

PROJECT\_YEARS: 1

**Pediatrics**

**Brown, Daniel**

*Randomized, Double-Blind, Phase 3B Trial to Evaluate the Safety and Efficacy of 2 Treatment Regimens of Aztreonam 75 mg Powder and Solvent for Nebulizer Solution / Aztreonam for Inhalation Solution (AZLI) in Pediatric Subjects with Cystic Fibrosis (CF) an* 8,300

**Sponsor:** Gilead Sciences, Inc.

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE:

PROJECT\_YEARS: 1

**School of Medicine (Grvl)**

**Medicine Greenville**

**Casanova, Emily**

*Joint Hypermobility and Hypermobility Spectrum Disorders in Mothers of Children with Autism and ADHD - ( 16000-KA04 )* 6,800

**Sponsor:** Autism Research Institute

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE:

PROJECT\_YEARS: 1

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**University Libraries**

***Univ Libraries - Dean's Office***

**Gettys, Rebecca**

*Shared Statewide Library Storage and Services Proposal - ( 30000-KA05 )* 56,500

**Sponsor:** The Andrew W. Mellon Foundation

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE:

PROJECT\_YEARS: 1

**University of SC Beaufort**

***Beaufort - Academic Affairs***

**Montie, Eric**

*Infrastructure to Monitor the Impacts of Water Quality and Climate Change on Our Local  
Natural Resources - ( 17210-KA21 )* 63,775

**Sponsor:** Community Foundation of the Lowcountry

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE:

PROJECT\_YEARS: 1

**Report Total: \$2,377,638**