

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

March, 2019 Awards

Arnold School of Public Health

Communication Sci & Disorders

Den Ouden, Dirk-Bart

Play on Words: An Aphasic Drama Group - 11560-FL00

1,200

Sponsor: SC Humanities/NEH

Co-PI:

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March, 2019 Awards

Fridriksson, Julius

Integrative Functions of the Planum Temporale - 11560-FA25 102,196

Sponsor: The Regents of the University of California/NIH

Co-PI: Rorden, Christopher

Center for the Study of Aphasia Recovery (C-STAR) - Year 2 (Project 4 - Subcontract with University of California, Irvine) - 11560-FA36 -43,512

Sponsor: National Institute on Deafness & Other Communication Disorders (NIDCD)/NIH

Co-PI:

Center for the Study of Aphasia Recovery (C-STAR) - Year 2 (Project 1) - 11560-FA37 -113,031

Sponsor: National Institute on Deafness & Other Communication Disorders (NIDCD)/NIH

Co-PI:

Center for the Study of Aphasia Recovery (C-STAR) -- Year 3 (Project 1) - 11560-FA44 156,543

Sponsor: National Institute on Deafness & Other Communication Disorders (NIDCD)/NIH

Co-PI:

Center for the Study of Aphasia Recovery (C-STAR) - Year 4 (Admin Core) - 11560-FA50 315,671

Sponsor: National Institute on Deafness & Other Communication Disorders (NIDCD)/NIH

Co-PI:

Center for the Study of Aphasia Recovery (C-STAR) - Year 4 (Core 1) - 11560-FA51 223,868

Sponsor: National Institute on Deafness & Other Communication Disorders (NIDCD)/NIH

Co-PI:

Center for the Study of Aphasia Recovery (C-STAR) - Year 4 (Project 1) - 11560-FA52 695,888

Sponsor: National Institute on Deafness & Other Communication Disorders (NIDCD)/NIH

Co-PI:

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<i>Center for the Study of Aphasia Recovery (C-STAR) - Year 4 (Project 2 - Subcontract with Johns Hopkins University) - 11560-FA53</i>	482,908
Sponsor: National Institute on Deafness & Other Communication Disorders (NIDCD)/NIH	
Co-PI:	
<i>Center for the Study of Aphasia Recovery (C-STAR) - Year 4 (Project 4 - Subcontract with University of California, Irvine) - 11560-FA54</i>	202,841
Sponsor: National Institute on Deafness & Other Communication Disorders (NIDCD)/NIH	
Co-PI:	
Klusek, Jessica	
<i>Defining the Language Phenotype of the FMR1 Premutation - 11560-FA49</i>	131,500
Sponsor: National Institute on Deafness and Other Communication Disorders (NIDCD)/NIH	
Co-PI:	
<i>Aging Language Trajectories in Premutation Carrier Mothers - 11560-FA55</i>	74,500
Sponsor: National Institute of Child Health and Human Development (NICHD)/NIH	
Co-PI:	
<i>Environmental Health Sciences</i>	
Balousha, Mohammed	
<i>Fate and Impacts of Silver Nanoparticles in Treatment Wetlands - 11510-FC06</i>	38,601
Sponsor: Smith College/USGS/DOI	
Co-PI:	
<i>Epidemiology & Biostatistics</i>	
Liese, Angela	
<i>SEARCH Nutrition Ancillary Study 2 (SNAS2) - 11520-FB64</i>	35,591
Sponsor: The University of North Carolina, Chapel Hill/NIH	
Co-PI:	
Liu, Jihong	
<i>Eliminating Disparities in Perinatal Health - 11500-FA83</i>	1,985
Sponsor: Palmetto Health Alliance/HRSA	
Co-PI:	

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March, 2019 Awards

Exercise Science

Sarzynski, Mark

Molecular Basis of Exercise-induced Changes in HDL Function - 11530-FB46 725,528

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

Co-PI:

Smuder, Ashley

Doxorubicin Cardiotoxicity and the Protective Effects of Exercise - 11530-FB47 366,620

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

Co-PI:

Health Prom., Educ. & Behavior

Blake, Christine

Competitive Small Grants Program for Research on Food Choice in Africa and Asia (DFID FUNDING ONLY) - 11540-KA56 573,804

Sponsor: Bill & Melinda Gates Foundation/DFID

Co-PI: Frongillo, Edward

Frongillo, Edward

Alive & Thrive Gen 2 Secondary Data Analyses - 11540-KA67 201,227

Sponsor: FHI360/Bill & Melinda Gates Foundation

Co-PI:

Macauda, Mark

Evaluation Services for The Mary Black Foundation's Healthy Family Initiative-Year 3 2019 - 11580-KA25 34,130

Sponsor: Mary Black Foundation

Co-PI:

Turner-McGrievy, Gabrielle

A Nutrition-based Approach to reduce heart disease risk among overweight African Americans: Use a soul food plant-based or omnivorous diets to address cardiovascular disease (Year 3) - 11570-FB49 117,608

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

Co-PI:

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March, 2019 Awards

Health Services Policy & Mgmt

Cozad, Melanie

Decision Aid Implementation and Evaluation for Colorectal Cancer Screening in a Primary Care Setting. - 11550-KA24 19,521

Sponsor: Greenville Health System

Co-PI:

Floyd, Sarah

Comparative Effectiveness of Surgical Treatment versus Conservative Management for Proximal Humerus Fracture: Evidence to Guide Clinical Decision-Making - 11550-KA25 19,909

Sponsor: Greenville Health System

Co-PI:

Public Health - Dean's Office

Gillam, Pamela

QI TA for SCDHEC's Perinatal and Infant Oral Health Quality Improvement Expansion Grant - 11580-FL28 28,588

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

Co-PI:

Young, Michael

Carolina Family Engagement Center (CFEC) - 11500-FJ43 13,860

Sponsor: Office of Innovation and Improvement/USDE

Co-PI:

College of Arts and Sciences

Archaeology & Anthropology

Stephenson, Donald

South Carolina Institute of Archaeology and Anthropology/Savannah River Archaeological Research Program Cooperative Agreement: United States Department of Energy for FY2019 - FY2023 - 21300-FB15 360,000

Sponsor: United States Department of Energy/DOE

Co-PI:

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March, 2019 Awards

Biological Sciences

Berger, Franklin

Center for Colon Cancer Research - Administrative Core - 13130-FA96 890

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

Co-PI:

Smith, Terika

Examining mRNA Localization in Central Sensory Axons after Peripheral Nerve Injury - 13010-FC63 94,929

Sponsor: National Institute of Neurological Disorders & Stroke (NINDS)/NIH

Co-PI:

Twiss, Jeffery

Effects of the SCI Microenvironment on Intra-Axonal Signaling - 13010-FC31 11,945

Sponsor: Drexel University/NIH

Co-PI:

Intersection of Epigenetic Regulation and Mitochondrial Function in Autism - 13010-GA06 150,000

Sponsor: SC EPSCoR/IDeA

Co-PI:

Chemistry & Biochemistry

Dawson, John

Elsevier - Editor Agreement - 13020-JL05 2,167

Sponsor: Elsevier

Co-PI:

Shustova, Natalia

Metal-Organics-Framework Glasses as Rad Contaminant Sequesters and Nuclear Waste Forms - 13020-FD31 30,000

Sponsor: Savannah River National Laboratory/DOE

Co-PI:

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Earth & Ocean Sciences

Lakshmi, Venkataraman

Intergovernmental Personnel Act (IPA)- National Science Foundation - 21610-FL01 -1,112

Sponsor: National Science Foundation (NSF)

Co-PI:

History

Patel, Dinyar

NEH Fellowship: Shaking the Empire: Dadabhai Naoroji and the Birth of Indian Nationalism - 13550-FA28 60,000

Sponsor: National Endowment for the Humanities (NEH)

Co-PI:

Mathematics

Dahmen, Wolfgang

Spring School Series: Models and Data - 13200-FJ00 24,930

Sponsor: National Science Foundation (NSF)

Co-PI:

Liu, Xinfeng

Mathematical Modeling, Computational and Experimental Investigation of the Dynamics of Heterogeneity in Breast Cancer - 13060-FA97 71,253

Sponsor: National Science Foundation (NSF)

Co-PI:

Petrushev, Pencho

Highly Effective Computational Methods in Geomagnetic Field Modeling - 21400-FA45 148,535

Sponsor: National Geospatial Intelligence Agency (NGA)/DOD

Co-PI:

Physics & Astronomy

Ilieva, Yordanka

DIRC-based PID for the EIC Central Detector - 13070-FB19 23,724

Sponsor: Brookhaven National Laboratory/DOE

Co-PI:

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Psychology

Roberts, Jane

Emergence and Stability of Autism in Fragile X Syndrome - 13580-FB39 612,127

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

Co-PI: Richards, John Shinkareva, Svetlana Hills, Kimberly

Exposure and Emotion Regulation as Predictors of Adjustment to Trauma - 13580-FB40 59,286

Sponsor: University of Kansas Center for Research, Inc./NIMH

Co-PI:

Rorden, Christopher

Center for the Study of Aphasia Recovery (C-STAR) - Year 4 (Core 2) - 13580-FB66 162,832

Sponsor: National Institute on Deafness & Other Communication Disorders (NIDCD)/NIH

Co-PI:

Center for the Study of Aphasia Recovery (C-STAR) - Year 4 (Project 3) - 13580-FB67 109,610

Sponsor: National Institute on Deafness & Other Communication Disorders (NIDCD)/NIH

Co-PI:

Weist, Mark

Patient-Centered Enhancements in School Behavioral Health: A Randomized Trial - 13580-KB01 5,090,121

Sponsor: Patient Centered Outcomes Research Institute (PCORI)

Co-PI:

School of Earth, Ocean & Env.

Bourbonnais, Annie

Nitrous Oxide Cycling in the Arctic Ocean from Stable Isotopic and Concentration Data - 21610-FA23 116,720

Sponsor: National Science Foundation (NSF)

Co-PI:

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March, 2019 Awards

Wilson, Alicia

LTER: Georgia Coastal Ecosystems IV - 21610-FA24

47,826

Sponsor: University of Georgia/NSF

Co-PI:

Statistics

Pena, Edsel

Center for Colon Cancer Research - Biometry Core - 13130-FB00

-884

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

Co-PI:

College of Education

Instruction & Teacher Educ.

Boutte, Gloria

African Diaspora Literacy: Transforming Research and Practice in Teacher Education and P-12 Schools - 15250-KL08

49,757

Sponsor: The Spencer Foundation

Co-PI:

Research, Eval., & Measurement

Lewis, Ashlee

Carolina Family Engagement Center (CFEC) - 15290-FJ15

189,000

Sponsor: Office of Innovation and Improvement/USDE

Co-PI:

SC Educational Policy Center

Monrad, Diane

Evaluation of the Discover Five Magnet Program for School District Five of Lexington and Richland Counties - 15270-HL01

15,000

Sponsor: School District Five of Lexington and Richland Counties

Co-PI:

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SC School Improvement Council

Utter, Karen

Carolina Family Engagement Center (CFEC) - 15280-FJ03

485,125

Sponsor: Office of Innovation and Improvement/USDE

Co-PI:

College of Engineering & Comp.

Chemical Engineering

Gaffney, Anne

DOE Phase I: Integrated Membrane Reactor for Enhancing Thermal & Chemical Reactors - 15510-JL04

5,000

Sponsor: Compact Membrane Systems, Inc

Co-PI:

Matthews, Michael

NSF INCLUDES Statewide Consortium Supporting Underrepresented Populations in Precalculus by Organizational Redesign toward Engineering Diversity (SC:SUPPORTED) - 15510-FD01

25,000

Sponsor: Clemson University/NSF

Co-PI:

Moss, Melissa

Biomarkers of Adverse Reaction to Surgical Implants: Proof-of-Concept - 15510-KA76

19,991

Sponsor: Greenville Health System

Co-PI:

Ritter, James

Structured Adsorbent Material Testing and Evaluation - 15510-JB43

170,000

Sponsor: W.L. Gore & Associates

Co-PI:

Weidner, John

Development of the Hybrid Sulfur Cycle-Sulfur Dioxide Depolarized Electrolyzer (Pre-Req 2018-0000059) - 15510-FD23

40,000

Sponsor: Savannah River National Laboratory/DOE

Co-PI:

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Civil & Environmental Eng.

Ziehl, Paul

Assessment of Structural Degradation for Bridges and Culverts - 15520-FB55 -10,116

Sponsor: SC Department of Transportation (SCDOT)/FHWA

Co-PI:

Computer Science & Engineering

Jamshidi, Pooyan

Online Transfer Learning and Self-Adaptation of Robots - 15590-FB43 51,700

Sponsor: Carnegie Mellon University/DARPA/DOD

Co-PI:

O'Kane, Jason

S&AS: FND: COLLAB: Planning Coordinated Event Observation for Structured Narratives - 15590-FB46 200,000

Sponsor: National Science Foundation (NSF)

Co-PI:

Rekleitis, Ioannis

Assessment of Structural Degradation for Bridges and Culverts - 15590-FB47 10,116

Sponsor: SC Department of Transportation (SCDOT)/FHWA

Co-PI:

Electrical Engineering

Khan, Asif

High Efficiency Micro/Nano-pillar UVC Light Emitting Diodes - 15530-FB85 48,933

Sponsor: Army Research Office (ARO)/DOD

Co-PI:

IIT - Engineering

Schooley, Benjamin

Telehealth Integration and Decision Support for South Carolina - 15560-GL00 309,500

Sponsor: SC Department of Commerce

Co-PI:

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Mechanical Engineering

Farouk, Tanvir

*Effect of External Thermo-Convective Perturbation on Cool Flame Dynamics: A
Multidimensional Multi-Physics CFD Analysis - 15540-FD35* 30,000

Sponsor: National Aeronautics & Space Administration (NASA)

Co-PI:

Knight, Travis

*Experimental Testing and Evaluation of Boral Performance in Spent Fuel Storage and
Transportation - 15540-FD76* 405,000

Sponsor: Nuclear Regulatory Commission

Co-PI:

van Tooren, Michael

3D Printing Project - Task Order 3 - 15540-JA91 125,000

Sponsor: TIGHITCO

Co-PI:

Yu, Lingyu

Weld Induction Project - 15540-JB13 20,000

Sponsor: Samsung

Co-PI:

College of Nursing

Nursing

Donevant, Sara

*Prescribing Providers' Perceptions of mHealth Features that Promote Positive Patient
Outcomes - 11200-KA28* 5,000

Sponsor: Sigma

Co-PI:

Jenerette, Coretta

*Subaward: Nursing Workforce Diversity - University of North Carolina at Chapel Hill -
11200-FJ28* 23,488

Sponsor: University of North Carolina-Chapel Hill/HRSA

Co-PI:

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McKinney, Selina

TeleMentalScale - 11200-KJ10

173,895

Sponsor: Blue Cross Blue Shield of South Carolina

Co-PI:

College of Social Work

Families in Society, Institute

Lopez-DeFede, Ana

*The Impact of Emergency Medicaid Policy on Reproductive Health Disparities Among
New Immigrants - 10010-FA66*

30,845

Sponsor: Oregon Health and Science University/NIMDH/NIH

Co-PI:

Darla Moore School of Business

Moore Sch - Div. of Research

Ferguson, Mark E

Oracle Research - 21200-JA28

90,000

Sponsor: Oracle America, Inc.

Co-PI:

Hosp., Retail, & Sport Mgmt

Hotel, Restaurant & Tour Mgmt

Hudson, Simon

*Developing a Tourism & Hospitality Employment Plan for South Carolina - 14050-
FA03*

44,122

Sponsor: U.S. Department of Commerce (DOC)

Co-PI:

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March, 2019 Awards

School of Law

Law - Dean's Office

Suski, Emily

SC Medical Legal Partnership Collaborative: Raising the Bar for Population Health - 15800-KA04 1,025,000

Sponsor: USC Educational Foundation/The Duke Endowment

Co-PI:

School of Medicine

Cell Biology & Anatomy

Carver, Wayne

Data-driven optimization of bioengineered vascular scaffolds as an advanced material for small diameter blood vessel replacement - 18020-GA03 150,000

Sponsor: South Carolina EPSCoR

Co-PI:

Cui, Taixing

NRF2 Signaling in the Cross-Talk between Proteasomal and Lysosomal Degradation - 18020-FB74 166,875

Sponsor: University of South Dakota/NIH

Co-PI:

Price, Robert

Center for Colon Cancer Research - Biotechnology Core - 13130-FA97 -6

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

Co-PI:

Family & Preventive Medicine

Bennett, Kevin

Catawba CMHC/Community Medicine Foundation Primary Care Initiative - 18130-FA35 17,327

Sponsor: Upper Midlands Rural Health Network/SCDMH/HHS

Co-PI:

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Internal Medicine

Albrecht, Helmut

GS-US-380-4030 - "A Phase 3, Randomized, Double-Blind Study to Evaluate the Safety and Efficacy of Switching from a Regimen of Dolutegravir and Either Emtricitabine/Tenofovir Alafenamide or Emtricitabine/Tenofovir Disoproxil Fumarate to a Fixed Dose Combi 2,350

Sponsor: Gilead Sciences, Inc.

Co-PI:

GS-US-380-4580: A Phase 3b, Multicenter, Open-Label Study to Evaluate Switching From a Regimen of Two Nucleos(t)ide Reverse Transcriptase Inhibitors (NRTI) plus a Third Agent to a Fixed Dose Combination (FDC) of Bictegravir/Emtricitabine/Tenofovir Alafena 15,555

Sponsor: Gilead Sciences, Inc

Co-PI:

Macnevin, Ryan

EMPEROR-Reduced: A phase III randomised, double-blind trial to evaluate efficacy and safety of once daily empagliflozin 10 mg compared to placebo, in patients with chronic Heart Failure with reduced Ejection Fraction (HFrEF) - (Protocol No. 1245.121) - 1,650

Sponsor: Boehringer Ingelheim Pharmaceuticals, Inc.

Co-PI:

Newsome, Brandi

A post-authorization Safety (PAS) Observational Cohort Study to Quantify the Incidence and Comparative Safety of Selected Cardiovascular and Cerebrovascular Events in COPD Patients Using Inhaled UMEC/VI Combination or Inhaled UMEC versus Tiotropium (Study 1,725

Sponsor: Outcomes Sciences, LLC/Glaxo Smith Kline

Co-PI:

Neurology

Cuturic, Miroslav

Enroll-HD: A Prospective Registry Study in Global Huntington's Disease Cohort - 18450-KA02 2,237

Sponsor: CHDI Foundation

Co-PI:

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Neuropsychiatry

Narasimhan, Meera

Zero Suicide Initiative - 18120-FA23

75,000

Sponsor: SC Department of Mental Health/SAMHSA/HHS

Co-PI:

Thornhill, Joshua

Subcontract Between Francis Marion University and the University of South Carolina School of Medicine for the Purchase and Provision of a Medical Education Program to be Delivered by the USC School of Medicine at an External Learning Site Located in Flore

1,500,000

Sponsor: Francis Marion University/SCDHHS/HHS

Co-PI:

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

14,502

Sponsor: Gilead Sciences, Inc.

Co-PI:

Knight, Lisa

POPS-Pharmacokinetics of Understudied Drugs Administered to Children per Standard of Care - 18140-FA27

9,300

Sponsor: Duke University/NIH

Co-PI:

Data Coordinating and Operatio Center (DCOC) for the IDeA States Pediatric Clinical Trials Network - VDORA - 18140-FA29

153,340

Sponsor: University of Arkansas/NIH

Co-PI:

Neuberg, Ronnie

COG St Baldrick's Foundation Supplemental Reimbursement - 18140-KA11

2,500

Sponsor: Children's Hospital of Philadelphia/ Children's Oncology Group/ St. Baldrick's Foundation

Co-PI:

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Roberts, Carla

DISPLACE--PH Subaward 8.15.18 - 18140-FM72

3,156

Sponsor: Palmetto Health--Subaward from MUSCNIH/NHLBI

Co-PI:

Pharm., Physiology & Neurology

Kelly, Michy

*Role of Cyclic Nucleotide Signaling in Age-related Decline of Social Memories -
18080-FA84*

151,130

Sponsor: National Institute on Aging (NIA)/NIH

Co-PI:

School of Music

Music

Hubbert, Julie

*Technology, Listening and Labor: Music in New Hollywood Film (1968-1980) -
12550-FA01*

60,000

Sponsor: National Endowment for the Humanities (NEH)

Co-PI:

University of SC Aiken

AK Biology & Geology

Hancock, Charles

Strategies for Identification and Rescue of Poorly Nodulated Soybeans - 17110-KA64

10,000

Sponsor: SC Soybean Board

Co-PI:

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Pirkle, William

Nuclear Forensics Graduate Fellowship Program - Formerly MUSC -32,500
- 17110-FA58

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

Co-PI:

Management of Nuclear Nonproliferation International Safeguards Graduate Fellowship Program - 17110-FA60 286,447

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

Co-PI:

University of SC Beaufort

BFT Grants

Cavanagh, Kimberly

Barnwell Archaeological Research Project - 17210-FA18 5,000

Sponsor: SC Humanities Council/NEH

Co-PI:

Sawyer, Caroline

Students Connected - Barnwell Site Excavation Project - 17210-KA22 5,240

Sponsor: Community Foundation of the Lowcountry

Co-PI:

Warren, David

Beaufort County Water Quality MOU - 17210-HL09 120,000

Sponsor: Beaufort County

Co-PI:

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Vice President for Research

EPSCoR

Aziz, Nadim

FY16 SC EPSCoR Appropriation - 22400-GA32 -60,000

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

Co-PI:

EPSCoR Stimulus Research Program - 22400-GA36 -300,000

Sponsor: SC EPSCoR/SC Commission on Higher Education

Co-PI:

EPSCoR DOE Match - 22400-GA40 60,000

Sponsor: SC EPSCoR/SC Commission on Higher Education

Co-PI:

Report Total: \$17,584,627