Arts and Sciences, College of

Anthropology
Toumey, Chris
Religious Reactions to Nanotechnology - 22040-FA31
Sponsor: National Science Foundation (NSF)
Co-PI: Besley, John

Art
Hogue, Susan
'Dreadful Sorry' Film Production Collaboration - 12510-GA05
Sponsor: SC Film Commission/SC Dept of Parks, Recreation and Tourism (SCPRT)
Co-PI: jennings, richard

Arts and Sciences - (Dean)
Fitzpatrick, Mary Anne
Subcontract, USC and Morehouse School of Medicine - 12500-KL01
Sponsor: Morehouse School of Medicine/W.K. Kellogg
Co-PI:

Baruch Institute
Allen, Wendy
North Inlet-Winyah Bay National Estuarine Research Reserve - 21600-FB84
Sponsor: NOS Office of Ocean & Coastal Resource Management (OCRM)/NOAA
Co-PI:

Lawrenz, Evelyn
Spectral Irradiance and Light Intensity as Determinants of Growth and Primary Production in Phytoplankton from Blackwater Estuaries - 21600-KA53
Sponsor: Slocum-Lunz Foundation
Co-PI:

Morris, James
CESU: Application of a Process Based Numerical Coastal Simulation Model to USGS Data Collection - 21600-FB71
Sponsor: U.S. Geological Survey (USGS)/DOI
Co-PI:
**Sponsored Awards Management (SAM)**

**May, 2010   New Awards**

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<th>Name</th>
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<td>Porter, Dwayne</td>
<td>The Use of Satellite Spectral Imaging, Remote Sensing Technologies To Detect Climate Change Induced Plant Stress</td>
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<td>Continuing Support of the NERR Centralized Data Management Office - 21600-FB83</td>
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<td>Genetic Evaluation of Population Bottlenecks in Gag Grouper (Mycteroperca Microlepis) - 21600-KA50</td>
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<td>Elucidating the Role of the Ubiquitin Ligase Wwp1 in Postnatal Cardiac Remodeling and in Hypertrophic Cardiomyopathy - 13010-KA60</td>
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### Sponsored Awards Management (SAM)
May, 2010  New Awards

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<td>Linking the Functional Traits of Crab Predators to Ecosystem Processes in Oyster Reefs</td>
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<td>Sediment Phosphorus Flux Measurement in Lake Wateree, SC</td>
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<td>Structure-Composition-Property Relationships of Complex Bismuth Oxide Based Photocatalysts (State Matching account for 22040-FA28)</td>
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<td>Materials Discovery by Crystal Growth: A Synthetic Strategy to Prepare Complex Oxides from High Temperature Solutions</td>
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Sponsored Awards Management (SAM)
May, 2010  New Awards

**Geography**
Dow, Kirstin
Informing Coastal Management Adaptation Planning and Decision Making for Climate Change Using an Interactive Risk-based Vulnerability Assessment Tool - 13540-FA78
Sponsor: Social and Environmental Research Institute/NOAA
Co-PI:

Doctoral Dissertation Research in DRMS: Influence of Risk, Uncertainty, and Scale on Coastal Adaptation Priorities - 13540-FA79
Sponsor: National Science Foundation (NSF)
Co-PI: Kettle, Nathan

Hodgson, Michael
II. Predicting the Impacts of Sea Level Rise in Beaufort County, SC Using Improved LIDAR-derived Digital Elevation Models, Digital Aerial Photography, and Sea Level Rise Scenarios - 13540-HA02
Sponsor: Beaufort County Council
Co-PI:

Mitchell, Jerry
Hearing Every Voice - 13540-FJ01
Sponsor: Aiken County School District/USDE
Co-PI:

South Carolina Geographic Alliance, 2010-2011 - 13540-GJ13
Sponsor: SC General Assembly
Co-PI:

Mock, Cary
Long Daily Historical Climate Reconstructions for Southern Alaska - 13540-FA69
Sponsor: National Oceanic & Atmospheric Administration (NOAA)
Co-PI:

**Geological Sciences**
Kellogg, James
GEGEO-Technical and Scientific Cooperation Between the National University of Equatorial Guinea and the University of South Carolina - 13040-LA02
Sponsor: ExxonMobil Equatorial Guinea, Inc.
Co-PI: Thunell, Robert
Knapp, James
Seismic Interpretation of the South Georgia Basin Complex - 13040-FB77  37,501
Sponsor: SCUREF/DOE
Co-PI:

Marine Science
Cotti-Rausch, Bridget
Organic Carbon Assimilation by Natural Phytoplankton Communities: Consequences and Uses for Pigments - 21600-KA51  1,200
Sponsor: Slocum-Lunz Foundation
Co-PI:

Goldman, Emily
Characterization of Phytoplankton Community Composition in North Inlet Using a Flow-Through Spectral Fluorometer - 21600-KA52  1,100
Sponsor: Slocum-Lunz Foundation
Co-PI:

Mathematics
Boylan, Matthew
Palmetto Number Theory Series - 13060-FA66  13,423
Sponsor: National Science Foundation (NSF)
Co-PI: Filaseta, Michael

Sharpley, Robert
Standards, Software and Hardware for Multiresolution Maps/Models for UAST in the Absence of A Priori World Models - 13060-FA51  30,205
Sponsor: Virginia Polytechnic Institute and State University/(ACA)/White Sands Directorate (WSMR DOC)
Co-PI:

Phase II SBIR: Innovative Micro Air Vehicles & Control Techniques for Urban Environments - 13060-FA60  93,750
Sponsor: Radiance Technologies, Inc./DOD
Co-PI:

Naval Science
Gordon, William
NROTC Educational Instruction Calculus and Physics - 13560-FJ12  1,500
Sponsor: US Navy/DOD
Co-PI:
### Physics & Astronomy

**Avignone, Frank**

CUORE and MAJORANA: Next Generation Neutrino-Less Double-Beta Experiments  -  13070-FA87

- **Sponsor:** National Science Foundation (NSF)
- **Co-PI:** Creswick, Richard
- **Amount:** 335,853

**Myhrer, Fred**

Theoretical Studies of hadronic and Nuclear Dynamics -  13070-FA78

- **Sponsor:** National Science Foundation (NSF)
- **Co-PI:** Kubodera, Kuniharu
- **Amount:** 177,228

**Purohit, Milind**

Experimental Particle Physics (ATLAS) -  13070-FA92

- **Sponsor:** US Department of Energy
- **Co-PI:** Mishra, Sanjib  Petti, Roberto  Wilson, Jeffrey
- **Amount:** 59,000

Experimental Particle Physics (BaBar Activities) -  13070-FA93

- **Sponsor:** US Department of Energy
- **Co-PI:** Mishra, Sanjib  Petti, Roberto  Wilson, Jeffrey
- **Amount:** 34,000

**Rosenfeld, Carl**

Experimental Particle Physics (Neutrino) -  13070-FA91

- **Sponsor:** US Department of Energy
- **Co-PI:** Mishra, Sanjib  Petti, Roberto  Purohit, Milind  Wilson, Jeffrey
- **Amount:** 141,000

### Psychology

**Richards, John**

Administrative Supplement: The Development of Sustained Attention in Infants -  13580-FA70

- **Sponsor:** National Institute of Child Health & Human Development (NICHD)/NIH
- **Amount:** 38,274

### Public Service & Policy Research, Institute for

**Oldendick, Robert**

DHEC Health Services Client Survey  -  21100-GL18

- **Sponsor:** SC Department of Health and Environmental Control (SC DHEC)
- **Amount:** 12,500
Sociology
Steelman, Lala

Collaborative Research: Transformation or Continuity in Americans' Definitions of Family

Co-PI: Brian Powell Indiana University - 13530-FA19
Sponsor: National Science Foundation (NSF)

Statistics
Lynch, James

Dynamic Models and Decision Making for Complex Reliability Systems - 13080-FA26
Sponsor: National Science Foundation (NSF)
Co-PI: Pena, Edsel

Pena, Edsel

Center for Colon Cancer Research (Biometry Core) - 13130-FA37
Sponsor: National Center for Research Resources (NCRR)/NIH

Business, Moore School of

Small Business Development Center
Lenti, John

SBDC Renewal for Current Recipient Organizations - CY 2010 (State Director's Office) - 21250-FL44
Sponsor: US Small Business Administration (SBA)
Co-PI:

SBDC Renewal for Current Recipient Organizations - CY 2010 (USC) - 21250-FL45
Sponsor: US Small Business Administration (SBA)
Co-PI:

Education, College of

Educational Studies, Department of
Marshall, Kathleen

Preparation of Leadership Personnel: Project SPEARTIP - 15240-FL06
Sponsor: US Department of Education (USDE)
Co-PI: Yell, Mitchell Drasgow, Erik
Instruction & Teacher Education

Styslinger, Mary

National Writing Project - 15250-F421

Sponsor: National Writing Project Corporation/USDE
Co-PI:

Vogler, Kenneth

Reading, Writing and Reasoning in American History Project - 15250-FL27

Sponsor: Lexington County School District Five/USDE
Co-PI: Dickenson, Tammiee

Office of Program Evaluation

Dickenson, Tammiee

Reading, Writing and Reasoning in American History Project - 15290-FL14

Sponsor: Lexington County School District Five/USDE
Co-PI:

Petrulis, Robert


Sponsor: Richland School School District One/DOE
Co-PI:

Evaluation of Teacher Quality Research (TQR) Project Investment, Implementation, and Student Achievement Effects - 15290-FL19

Sponsor: SC Department of Education/USDE
Co-PI:

Engineering & Computing, College of

Chemical Engineering

Amiridis, Michael

Experimental Program to Stimulate Competitive Research & Institution Development (RII) (State Match for 61000-FA00) - 61000-GA03

Sponsor: SC EPSCoR Program
Co-PI:

Stanford, Thomas

Investigation of Thermochemical Cycles - 15510-FB71

Sponsor: UChicago Argonne LLC for Argonne National Laboratory/DOE
Co-PI:
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<td>Yoon, Yeomin</td>
<td>Engineered Applications of Carbon Nanotubes in UF and MF Membranes: Pretreatment in Seawater Desalination - 15520-JA16</td>
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<td>Fabrication of Solid Oxide Fuel Cells - 15540-JA51</td>
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<td>Conducting Heat Transfer Measurements of Nanoparticle Enhanced Ionic Liquids (NEILS)</td>
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<td>Reifsnider, Kenneth</td>
<td>Advanced Solid Oxide Fuel Cells for Soldier Portable Power</td>
<td>WinTec Arrowmaker/US Army</td>
<td>490,000</td>
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<td>Co-PI: Reifsnider, Kenneth, Chen, Fanglin, Xue, Xingjian</td>
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<td>DoD FY 2010 Defense University Research Instrumentation Proposal-(DURIP 10) - 3D Visualization of Material State Changes using X-ray Computed Tomography (XCT) for Prognosis of Heterogeneous</td>
<td>Air Force Office of Scientific Research (AFOSR)/Department of the Air Force/DoD</td>
<td>657,704</td>
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<td>Co-PI: Majumdar, Prasun</td>
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<td>Wang, Guiren</td>
<td>CAREER: Studying Flow Velocity Field in Nanofluidics with a Far-Field Nanoscopic Velocimetry</td>
<td>National Science Foundation (NSF)</td>
<td>400,000</td>
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<td>Co-PI:</td>
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<td>A Novel Rapid Mixing Process and Mixer in Continuous Operation</td>
<td>North American Mixing Forum (NAMF)</td>
<td>60,000</td>
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<td>Co-PI:</td>
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Sponsored Awards Management (SAM)
May, 2010  New Awards

Hospitality, Retail & Sport Management, College of

Hospitality, Retail & Sport Management - (Dean)
Kline, Sheryl

Hotel Tax Study ~ Greater Columbia Hotel Motel Association (CHMA) - 14000-JA01 3,000

Sponsor: Greater Columbia Hotel Motel Association
Co-PI: McLeod, Brumby

Law, School of

Children's Law Center
Morris, Carolyn

Children's Justice Act: Support of CJA Task Force - 15810-FL19 21,154

Sponsor: SC Department of Social Services/HHS
Co-PI:

Legal Training for DSS Staff and Agents - 15810-FL23 789,206

Sponsor: S.C. Department of Social Services/HHS
Co-PI:

S.C. Bar Foundation - 15810-KL04 20,000

Sponsor: South Carolina Bar Foundation
Co-PI:

Medicine, School of

Cell & Developmental Biology & Anatomy
Potts, Jay

The Morphogenetic Regulation of Cardiac Valves by Fluid Flow - 18020-FA49 100,440

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

Price, Robert

Center for Colon Cancer Research (Histology Core) - 13130-FA36 10,000

Sponsor: National Center for Research Resources (NCRR)/NIH
Co-PI:
Internal Medicine
Albrecht, Helmut
An International, Multicenter, Prospective Observational Study of the Safety of Maraviroc Used with Optimized Background Therapy in Treatment Experienced HIV 1 Infected Patients.  - 18190-JA50

Sponsor: Pfizer, Inc.
Co-PI: Duffus, Wayne  Ahuja, Divya  Horvath, Joseph

Eleazer, Paul
Reynolds Subrecipient Grant (University of Texas) - 18190-KL06

Sponsor: University of North Texas Health Science Center at Fort Worth/Donald W. Reynolds's Foundation
Co-PI: Dever-Bumba, Maureen

Hoppmann, Richard
Achieving Optimal High Blood Pressure Treatment for Free Medical Clinic Patients Using Point of Care Portable Ultrasound - 18460-KL00

Sponsor: Sisters of Charity Foundation of SC
Co-PI: Dever-Bumba, Maureen

Medicine Library
Whitaker, Christine
History of Medicine Digitization Project - 18280-FL08

Sponsor: National Network of Libraries of Medicine - Southeastern/Atlantic Region
Co-PI: Yeh, Felicia

Neuropsychiatry
Narasimhan, Meera
Clinical and Policy Implications of a Statewide Emergency Telepsychiatry Program - 18120-FA05

Sponsor: National Institute of Mental Health (NIMH)/NIH
Co-PI: Narasimhan, Meera

A Phase 2, Multicenter, Randomized, Double-blind, Placebo-controlled Study of the Safety and Efficacy of OPC-34712 as Adjunctive Therapy in the Treatment of Patients with Major Depressive Disorder - 18120-JA13

Sponsor: Otsuka Pharmaceutical Development and Commercialization, Inc.
Co-PI:
Selph, James
SP954-VERSA An Open-Label, Multicenter, Multinational Study of Lacosamide as First Add-On Antiepileptic Drug (AED) Treatment in Subjects with Partial-Onset Seizures. - 18450-JA01
Sponsor: Schwarz Biosciences, Inc  
Co-PI: Mrelashvili, Davit  
1,000

Obstetrics & Gynecology
Gregg, Anthony
Interdisciplinary Conference on Pregnancy and the Health of Women and Children
Fall 2010 Research Retreat - 18110-KA03
Sponsor: March of Dimes, SC Chapter  
Co-PI: Liu, Jihong  Mann, Joshua  
500

Spiryda, Lisa
2010 Carolina Women’s Health Research Forum - 18110-KA04
Sponsor: March of Dimes, SC Chapter  
Co-PI: Burgis, Judith  
500

Pediatrics
Ferrante, Richard
MOU - SC Assistive Technology Advisory Committee Web Testers Program - 18140-GL34
Sponsor: Budget and Control Board, Division of State Chief Information Office and ATAC  
Co-PI:  
15,400

Kotchmar, George
SC DHEC Div of STD/HIV 10-11 - 18140-FL91
Sponsor: SC Department of Health & Environmental Control (DHEC)/HHS  
Co-PI:  
127,572

Schwartz, I. David
Norditropin National Registry Agreement - 18140-JA14
Sponsor: Covance Periapproval Services, Inc.  
Co-PI: Jackson, Malaka  
625

Pharmacology, Physiology & Neuroscience
Wilson, Marlene
Amygdalar Neuropeptides and Anxiety - 18080-FA19
Sponsor: National Institutes of Mental Health (NIMH/NIH)  
Co-PI: Wilson, Steven  McDonald, Alexander  Fadel, Jim  
316,552
Sponsored Awards Management (SAM)
May, 2010   New Awards

Public Health, Arnold School of

**Environmental Health Sciences**
Sabo-Attwood, Tara

*Mechanisms of Xenoestrogen Stress: A Proteomic and Functional Genomic*  
*Approach* - 11510-FB30

**Sponsor:** National Institute of Environmental Health Sciences (NIEHS)/NIH  
**Co-PI:** Ferguson, P.

**Epidemiology & Biostatistics**
Cai, Bo

*Latent Structure Modeling of Small Area Health Data* - 11520-FA94

**Sponsor:** Medical University of South Carolina (MUSC)/NIH  
**Co-PI:** Liu, Jihong

Cornman, Carol

*For the Purchase and Provision of the Alzheimer’s Disease Registry Management and Training and Development Related to Dementia* - 11520-FB03

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

Hebert, James

*Diet & Activity Community Trial: High-Risk Colon Polyps* - 22080-FA20

**Sponsor:** National Center on Minority Health & Health Disparities (NCMHD)/NIH  
**Co-PI:** Blair, Steven

Karmaus, Wilfried

*GA: Kelly Johnson* - 11520-GP56

**Sponsor:** SC Department of Health & Environmental Control (DHEC)  
**Co-PI:**

Liese, Angela

*Nutrition and Metabolic Status in Youth with Type 1 DM: SEARCH Ancillary Study* - 11590-FA21

**Sponsor:** University of North Carolina/NIH  
**Co-PI:**
Sponsored Awards Management (SAM)
May, 2010   New Awards

**Exercise Science**
Blair, Steven

*Travel Support for the 3rd International Congress on Physical Activity and Public Health* - 11530-JJ00

**Sponsor:** The Coca-Cola Company

**Co-PI:**

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Carson, James

*Cachexia in ApcMin/+ mice: The Role of IL-6* - 11530-FA49

**Sponsor:** National Institutes of Health (NIH)

**Co-PI:** Baynes, John   Berger, Franklin   Davis, J. Mark

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Fayad, Raja

*Center for Colon Cancer Research - Start Up - Dr. Fayad* - 13130-FA38

**Sponsor:** National Center for Research Resources (NCRR)/NIH

**Co-PI:**

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McClenaghan, Bruce

*Graduate Assistant Support for PROAXIS Therapy, Greenville, SC* - 11530-JA06

**Sponsor:** PROAXIS Physical Therapy

**Co-PI:**

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Murphy, Elizabeth

*Curcumin and Quercetin in Colon Cancer: Role of Macrophage-Induced Inflammation* - 11530-FA56

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

**Co-PI:** Davis, J. Mark   Carson, James   Pena, Maria   Berger, Franklin

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Pate, Russ

*Health Promotion and Disease Prevention Research Centers (Center Proposal)* - 11570-FA87

**Sponsor:** National Center for Chronic Disease Prevention & Health Promotion/CDC

**Co-PI:**

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sui, xueimei

*Understanding Patterns of Change in Obesity and Physical Activity in Adults* - 11530-FA63

**Sponsor:** National Institute of Diabetes & Digestive & Kidney Diseases (NIDDK)/NIH

**Co-PI:** Blair, Steven   Hardin, James
**Health Promotion, Education & Behavior**

Brandt, Heather

*Center for Colon Cancer Research (Project 3) - 13130-FA30*  
**Sponsor:** National Center for Research Resources (NCRR)/NIH  
**Co-PI:**

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**Health Services Policy and Management**

Xirasagar, Sudha

*GA: Justin Warren - 11550-JR09*  
**Sponsor:** Columbia Cardiology  
**Co-PI:**

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*GA: Furman Lovett - 11550-LR39*  
**Sponsor:** Palmetto Health, Corporate  
**Co-PI:**

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*GA: Furman Lovett - 11550-LR40*  
**Sponsor:** Palmetto Health, Corporate  
**Co-PI:**

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**Prevention Research Center**

Hooker, Steven

*A Community Initiative to Increase Use of the Mary Black Foundation Rail Trail and Wadsworth Trail - 11570-KA17*  
**Sponsor:** Partners for Active Living/Mary Black Foundation  
**Co-PI:**

---

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

Smithwick-Leone, Julie

*Culturally and Linguistically Appropriate Preconception and Perinatal Health Messages - 11500-KL05*  
**Sponsor:** March of Dimes, SC Chapter  
**Co-PI:**

---

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

Truell, Deborah

*Type 1 Diabetes Genetics Consortium - 11590-FL00*  
**Sponsor:** Benaroya Research Institute at Virginia Mason/NIH  
**Co-PI:**
Research in Nutrition & Health Disparities, Center for
Nichols, Michele
Treatment Options for Type 2 Diabetes in Adolescents and Youth (TODAY) - 11590-FA33

Sponsor: George Washington University/NIH
Co-PI:

Research & Graduate Education, Vice President
Families in Society, Institute for
Baxter, Suzanne
Integrated Recall of Diet and Physical Activity in Children - 10010-FA41

Sponsor: National Heart, Lung & Blood Institute (NHLBI)/NIH
Co-PI: Pate, Russ

Wilson, Sacoby
Use of a Community-University Partnership to Eliminate Environmental Stressors: Administrative Supplement for Undergraduate Student Experience - 10010-FA47

Sponsor: National Institute of Environmental Health Sciences (NIEHS)/NIH
Co-PI:

Research, Vice President for - (General)
Moskowitz, Jay
CITIA-SC: Creating a Heathier South Carolina through Health Information Technology - 22000-FL05

Sponsor: ONC - Office of National Coordinator, Dept. of Health and Human Services
Co-PI:

Social Work, College of
Social Work, College of
Browne, Teri
Social Networks and Pathways to Transplant Parity for Black Hemodialysis Patients - 15900-FA24

Sponsor: National Institute of Diabetes & Digestive & Kidney Diseases (NIDDK)/NIH
Co-PI:

Ward, James
GA: Kelli Middleton - 15900-KR60

Sponsor: The Lydia Project, Inc.
Co-PI:
USC Aiken

**USC Aiken**

Leverette, Chad

*Advancing SEIRA Technology* - 17110-FA30

*Sponsor:* SCUREF/DOE

*Co-PI:*

Rhodes, Lynne

*National Writing Project Potential Site Funding Application* - 17110-FL33

*Sponsor:* National Writing Project Corporation/USDE

*Co-PI:* Rhodes, Lynne

Smith, Garriet

*University of South Carolina Aiken Biofuels Laboratory in Aiken, SC* - 17110-FA29

*Sponsor:* Department of Energy

*Co-PI:*

USC Beaufort

**USC Beaufort - Academic Affairs**

Salazar, John

*Hilton Head Island Residential Survey* - 17210-HA03

*Sponsor:* Town of Hilton Head Island

*Co-PI:*

Varnet, Harvey

*PASOS March of Dimes Beaufort County* - 17210-KL03

*Sponsor:* BJHCHS/March of Dimes

*Co-PI:*

**USC Beaufort - General**

Upshaw, Jane

*Performing Arts Center* - 17220-KL18

*Sponsor:* Coastal Community Foundation of South Carolina

*Co-PI:*

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USC Union

Lee, Michele

Career Start 2010-2011 - 17770-FJ04

**Sponsor:** Upstate Workforce Investment Board - Spartanburg/DOL

**Co-PI:** Rowland, Hugh

USC Upstate

Ellis, Timothy

Proposal to Develop Virtual World Technology for SETM 320 - 17880-GA00

**Sponsor:** University Center of Greenville

**Co-PI:**

Fulbright, Ron

Immersive Innovation: Exploring the Use of 3-Dimensional Problem Formulator Diagrams for Innovative Problem Solving - 17880-GA01

**Sponsor:** University Center of Greenville

**Co-PI:**

Thomas, Tasha

National Writing Project 2005 - 17880-FL42

**Sponsor:** National Writing Project Corporation/USDE

**Co-PI:**

Turner, Jack

Watershed Ecology Center Education Program - 17880-KL00

**Sponsor:** Carolina Piedmont Foundation

**Co-PI:**

Report Total: $12,201,316