

# 2012-2018 SPARC Graduate Research Grant Recipients

University of South Carolina Office of Research

## 2012-2013

2012-2013 SPARC Recipients		
Recipient Name	Degree Program	Project
<b>Nirupam Aich</b>	Civil Engineering	Aggregation behavior of indium tin oxide hybrid nanoparticles in aquatic environment: Addressing heteroaggregation problem
<b>Ali Asghari Tabrizi</b>	Civil Engineering	Failure of Cohesive Levees
<b>Bridget Bachman</b>	Marine Science	Investigating the Picophytoplankton: Group-specific measurements of biomass and primary productivity in the North Atlantic Ocean
<b>Brandi Ballard</b>	Creative Writing	Receiver of Wreck: A Memoir
<b>Katie Becofsky</b>	Exercise Science	An fMRI Investigation of Fitness-Induced Cognitive Reserve in Older Women
<b>Gina Besenyi</b>	Health Promotion Education and Behavior	eCPAT: Development and testing of mobile technology to engage youth in active living policy systems and environmental health promotion efforts
<b>Katherine Boatman</b>	Art Studio	Elemental Origins
<b>William Chance</b>	Chemistry	The Phase Transition from Perovskite to K <sub>2</sub> NiF <sub>4</sub> Structure: New Materials for Improved Solid Oxide Fuel Cell Performance Through Precious Metal Substitutions
<b>Xin Chen</b>	Mechanical Engineering	Simulation of mixed-mode I/III stable tearing crack growth events using the cohesive zone model approach
<b>Qingsu Cheng</b>	Biomedical Engineering	Electromechanically Tunable Substrates for Dynamic Programming of Stem Cells
<b>Mabel Cristina Cuellar Azcarate</b>	Civil Engineering	Structural optimization of engineered earth masonry low-income dwellings for extreme winds
<b>David Dangerfield</b>	History	Hard Rows to Hoe: Free Black Yeomen in the Antebellum South

## 2012-2018 SPARC Graduate Research Grant Recipients

University of South Carolina Office of Research

2012-2013 SPARC Recipients		
Recipient Name	Degree Program	Project
<b>Pamela Davis</b>	Epidemiology	Environmental exposure to arsenic and lead in soils and preterm birth in a high-risk population in South Carolina: investigating racial disparities and neighborhood effects
<b>Erin Derrick</b>	Geological Sciences	The Lincolnville Fault and the 1886 Charleston Earthquake
<b>Sanorita Dey</b>	Computer Science and Engineering	SensorPrint: Harnessing Imperfections of Sensors for Fingerprinting Smartphones
<b>Emily Garnett</b>	Communication Sciences and Disorders	Effects of Cortical Stimulation on Self-Monitoring Performance in People Who Stutter
<b>Brittany Garvin</b>	Teaching and Learning	Science Summer Learning: An investigation of the impact of a culturally responsive STEM education curriculum on marginalized youth
<b>Odell Glenn Jr.</b>	Chemical Engineering	Deactivating Allergenic Proteins that Trigger Asthma
<b>Robert Greeley</b>	Geography	Environmental Governance and Lebanon's Shouf Biosphere Reserve
<b>Charity Griffin</b>	School Psychology	School Racial Climate and the Academic Achievement of African American High School Students: The Mediating Role of School Engagement
<b>Han Han</b>	Biological Sciences	A transcriptional network regulating early flower development in <i>Arabidopsis thaliana</i>
<b>Benjamin Haywood</b>	Geography	Experiences of Place Attachment and Connectedness to Nature in Public Participation in Scientific Research (PPSR) Programs
<b>Huacheng He</b>	Pharmaceutical Sciences	Co-delivery of 17-AAG nanogel and gold nanorod for targeted cancer thermo-chemo-therapy
<b>Daniel Hughes</b>	Biological Sciences	The Role of Lipocalin-2 in Liver Metastasis of Colon Cancer

## 2012-2018 SPARC Graduate Research Grant Recipients

University of South Carolina Office of Research

2012-2013 SPARC Recipients		
Recipient Name	Degree Program	Project
<b>Anshika Jain</b>	Biological Sciences	Structure/function studies of novel organellar ferric chelate reductases that are essential for proper compartmentalization of cellular iron
<b>Chia-Hua Lin</b>	Philosophy	Modeling the Emergence of Complex Communication: An Evaluation of the Faculty of Language Assumption and an Alternative Research Proposal
<b>Jeffrey Makala</b>	English	The Union of the Intellectual and the Mechanical : Towards a History of Stereotyping and Electrotyping in Nineteenth-Century America
<b>Ali Masood</b>	Political Science	Deciding How to Decide: Re-evaluating Stages of Decision-Making in the U.S. Supreme Court.
<b>Riane Miller</b>	Criminology and Criminal Justice	Adultification in Juvenile Corrections? A Comparison of Juvenile and Adult Probation Officers.
<b>Amira Osman</b>	Health Promotion Education and Behavior	Validation of instruments to assess ethnic discrimination among Arab Israelis
<b>Otis Owens</b>	Health Promotion Education and Behavior	A Creative Approach to Promoting and Facilitating Informed Decision Making for Prostate Cancer Screening Among African American Males in Faith Based Communities
<b>Seo Yeon Park</b>	Anthropology	Translocalization of the experiences of displaced North Koreans and their institutional subject formation in South Korea
<b>Tyler Parry</b>	History	Love and Marriage: Slave Companionship Matrimony and Domestic Relations in the Anglophone Atlantic World
<b>Caroline Peyton</b>	History	Radioactive Dixie: A History of Nuclear Power and Nuclear Waste in the U.S. South
<b>Rebecca Reid</b>	Political Science	The Judicial Institutionalization of International Human Rights Laws

## 2012-2018 SPARC Graduate Research Grant Recipients

University of South Carolina Office of Research

2012-2013 SPARC Recipients		
Recipient Name	Degree Program	Project
<b>Emily Rendek</b>	English	Bound Bodies: Book Use and the Early Modern Reader 1450-1660.
<b>Lawton Roberts</b>	Biomedical Sciences	The effects of Mycobacterium tuberculosis on human dendritic cell integrin expression and migration
<b>Arpit Saxena</b>	Exercise Science	Role of co-administration of Selenium and Adiponectin in chronic inflammation induced colon cancer.
<b>Danielle Schoffman</b>	Health Promotion Education and Behavior	Developing a Mobile App for Pediatric Obesity Prevention: The Intersection of Science and Technology
<b>Alma Sehic</b>	Music Performance	Body Mapping for Guitarists
<b>Yanfeng Shen</b>	Mechanical Engineering	Hybrid Modeling of Guided Wave Propagation in Composite Structures for Structural Health Monitoring
<b>Kimberly Shorter</b>	Biological Sciences	An Investigation of the Effects of a Methyl Donor Diet on Behavior in Peromyscus polionotus
<b>Heather Smith</b>	Mathematics	Fast Convergent Markov Chains for Graph Sampling
<b>Megan Southern</b>	Public History	Lewd Legacies: Modern Gender Politics and the Challenges of Preserving Bermuda's Queen of the East Brothel
<b>Carole Sox</b>	Hospitality Management	Meeting Attendee Choice and Engagement within Virtual and Hybrid Meetings
<b>Fred Tabung</b>	Epidemiology	Dietary Inflammatory Index and Risk of Cancer in Women
<b>Zhenhua Tian</b>	Mechanical Engineering	A Novel Hybrid PZT-Laser Vibrometry Approach for Structural Health Monitoring
<b>Falon Tilley</b>	Exercise Science	Community Partnerships Aiding Afterschool Programs in Meeting National Snack Guidelines Charleston County South Carolina

## 2012-2018 SPARC Graduate Research Grant Recipients

University of South Carolina Office of Research

2012-2013 SPARC Recipients		
Recipient Name	Degree Program	Project
<b>Benjamin Toscano</b>	Biological Sciences	Environmental variation in the behavioral syndromes of mud crabs: a test of the adaptive hypothesis
<b>Stan Trembach</b>	Library and Information Science	Pioneers in Uncharted Territory: VINITI and the Communist Influence on the U.S. Scientific and Technical Information System
<b>Siwei Wang</b>	Mechanical Engineering	Proton Implantation Effect on the Conductivity for Proton Conducting Perovskites
<b>Grandon Wilson</b>	Biological Sciences	Molecular mechanisms involved in Fe compartmentalization and Fe sensing by mitochondria and chloroplasts
<b>Charlton Yingling</b>	History	Colonialism Unbound: Race and Nation Religion and Counterrevolution in Santo Domingo During the Age of Revolutions 1784-1822
<b>Jia Zhao</b>	Mathematics	Modeling and Computation of Biofilms using Complex Fluids Models

# 2012-2018 SPARC Graduate Research Grant Recipients

University of South Carolina Office of Research

## 2013-2014

2013-2014 SPARC Recipients		
Recipient Name	Degree Program	Project Title
<b>Christopher Aluah Peter</b>	Health Promotion, Education & Behavior	Stigmatizing the "wise": Perceptions & experiences of courtesy stigma among African American HIV care providers in South Carolina
<b>Samuel Antwi</b>	Epidemiology & Biostatistics	Single nucleotide polymorphisms in DNA repair and oxidative stress genes, and their interaction with antioxidants on prostate cancer aggressiveness
<b>Noble Anumba</b>	Mechanical Engineering	Multiphase Flow Modeling & CFD Studies of High Pressure, Large Diameter, Inclined Pipelines
<b>Nicholas Bailey</b>	Business, Moore School of - Dean's Office	Institutional Effects of Bribery
<b>Douglas Bell</b>	Marine Science	Phosphorus Utilization by Phytoplankton in the CARIACO Basin
<b>Grishma Bhavsar</b>	Health Services Policy and Management	Association between Electronic Prescribing and Adverse Drug Events in Older Adults
<b>Tim Boiteau</b>	Psychology	Grammar, hand, and space
<b>Jonathan Kenneth Bunn</b>	Chemical Engineering	Development of a Deterministic Deposition Model to Facilitate Combinatorial Thin Film Materials Research
<b>Yang Cao</b>	Hotel, Restaurant & Tourism Administration	How to Make Destination Dining Experiences Memorable
<b>Bei Cheng</b>	Pharmaceutical and Biomedical Sciences	Functionalized mesoporous silica nanoparticles for targeted delivery of iron chelator for cancer therapy
<b>Sara Chizari</b>	Library & Information Sciences, School of	Exploring The Impact of Users National Culture on Their Online Browsing Behavior.
<b>Meagan Conway</b>	Anthropology	Cosmopolitanism and Capitalism in the Irish Frontier: An Archaeology of the 18th and 19th Century West Coast

## 2012-2018 SPARC Graduate Research Grant Recipients

University of South Carolina Office of Research

2013-2014 SPARC Recipients		
Recipient Name	Degree Program	Project Title
<b>C'iana Cooper</b>	Pharmacology, Physiology & Neuroscience	Crosstalk between muscarinic and kainate receptors in epilepsy
<b>Edward Allen Driggers</b>	History	Networks of Nature
<b>Laura Enzor</b>	Biological Sciences	Global Climate Change and the Southern Ocean: Why Don't All Antarctic Fish Respond the Same?
<b>Carl Frisby</b>	Earth and Ocean Sciences	Active mapping of trace metal distribution across grain boundaries within altered peridotites
<b>Gengsong Gao</b>	Languages, Literatures, and Cultures	Debating over Modernity and New Realist Novels in Postsocialist China
<b>Britney Ghee</b>	History	Disappearing Histories and Their Dilapidated Structures: Conserving Difficult Knowledge for UNESCO World Heritage Sites In Ghana
<b>Emad Gheibi</b>	Civil & Environmental Engineering	Seismic Hazard Analysis
<b>Junaed Bin Halim</b>	Computer Science & Engineering	Predicting Uplink Traffic in Enterprise Wireless LANs
<b>Ashley Harrell</b>	Sociology	Harnessing the Power of Good Leaders--and Making Bad Leaders Better
<b>Erin Holmes</b>	History	Lost Island: Extant and Archival Architecture on Barbados
<b>John Knox</b>	English	Common Sense Romanticism
<b>Melissa Kolar</b>	Exercise Science	Enhancing the Potency of Action Observation Therapy using Non-invasive Brain Stimulation
<b>Evan Kutzler</b>	History	The Senses and Degradation in Civil War Prisons
<b>Rebecca Kyrlyliuk</b>	Exercise Science	Evaluation of the Food & Fun After School nutrition curriculum: Establishing an evidence base for practice
<b>Heather Lasky</b>	Psychology	Using Geographical Information Systems to Investigate Service Utilization and Outcomes in School Mental Health

## 2012-2018 SPARC Graduate Research Grant Recipients

University of South Carolina Office of Research

2013-2014 SPARC Recipients		
Recipient Name	Degree Program	Project Title
<b>Kathryn Levasseur</b>	Baruch Institute	Genetic network analysis of an isolated nesting aggregation of hawksbill turtles in Antigua, West Indies
<b>Hang Li</b>	Chemical Engineering	Development of Ultrathin, Graphene Oxide (GO) Membranes for Highly Efficient and Fouling-Resistant Oil/Water Separation
<b>Jin Liu</b>	Educational Studies, Department of	Investigating Cut Scores to Assist Young Children At-Risk for Behavioral and Emotional Problems
<b>Ramin Madarshahian</b>	Civil & Environmental Engineering	Human fall recognition using logistic regression
<b>Svetlana Malyutina</b>	Communication Sciences & Disorders	Neural Correlates of Verb Subcategorization Complexity
<b>Allison Manuel</b>	Pharmacology, Physiology & Neuroscience	Succination of KEAP1 Promotes CHOP Stability in Adipocytes during Diabetes
<b>Rachel Monroy</b>	History	Atlantic Puritans: Puritan Identities in the Formation of an Atlantic World, 1580-1700
<b>Hyomin Park</b>	Sociology	Experimental Research on Reward Stability and Group Cooperation
<b>Nicole Reilly</b>	Pharmaceutical and Biomedical Sciences	Enhancing Cancer Chemosensitivity by Targeting the RAD51D Ovarian Cancer Susceptibility Gene
<b>Megan Riley</b>	Biological Sciences	Mechanisms underlying life history plasticity in a range expansion induced by climate change
<b>Alycia Roberts</b>	Psychology	Randomized Control Study of Neurofeedback with College Students with ADHD
<b>Muhammad Nazmus Sakib</b>	Computer Science & Engineering	Revealing Fast-flux Mothership
<b>Tamara Savage</b>	Social Work, College of	End-Stage Renal Disease Medication Self-Management: What are the Effects of Racism?



## 2012-2018 SPARC Graduate Research Grant Recipients

University of South Carolina Office of Research

2013-2014 SPARC Recipients		
Recipient Name	Degree Program	Project Title
Yi Shen	Chemistry & Biochemistry	A General Approach to Purification of Nanocrystals
Anthony Stagliano	English	Tactical Reorientations: The Rhetoricity of Material Encounters
Alexandra Stasko	Art (MFA)	Figuration
John Terry	Psychology	Development of Footprints: Enhancing Protective and Reducing Risk Factors to Promote Positive Student Outcomes
Chiwoneso Tinago	Health Promotion, Education & Behavior	Barriers and Facilitators to Micronutrient Supplementation Adherence among Pregnant Women in Harare, Zimbabwe
Tolga Ulusemre	Business, Moore School of - Division of Research	What is the logic behind political ties in international business?
Chao Wang	Chemical Engineering	Oxygen vacancy enriched mesoporous catalysts for selective catalytic reduction of NO with ammonia (NH <sub>3</sub> -SCR)
Kara Whitaker	Exercise Science	Patient and provider perceptions of weight gain, nutrition, and exercise in pregnancy
Erin Witalison	Pharmaceutical and Biomedical Sciences	Exploring a novel mechanism of PAD inhibition by linking increased miRNA expression levels to decreased RONS levels in vitro
Jing Yuan	Clinical Pharmacy and Outcomes Sciences	Statins Exposure and the Risk of Liver Cancer in the Elderly
Yihao Zhu	Electrical Engineering	Development of graphene based ion sensitive field effect transistor for cell ion channel drug discovery

# 2012-2018 SPARC Graduate Research Grant Recipients

University of South Carolina Office of Research

## 2014-2015

2014-2015 SPARC Recipients		
Recipient Name	Department or Program	Project Title
<b>Md Riaz Ahmed</b>	Mechanical Engineering	Autonomous Energy Scavenging from Low Frequency Ambient Noise using AcoustoElastic MetaMaterials (AEMM)
<b>Dawood Al Jahwari</b>	Hospitality Management	The Role of Islamic Religiosity in Predicting Destination Choice Decisions
<b>Nazli Asgari</b>	Chemical Engineering	Investigation of NOx-CO Formation in Syngas Combustion in Gas Turbine Applications
<b>Jessica Baer</b>	Exercise Science	Enhancing Brain Plasticity with Aerobic Exercise and Transcranial Direct Current Brain Stimulation
<b>Cynthia Bateman</b>	English	Performing (Canine) Soldier
<b>Douglas Cahl</b>	Geological Sciences	Ocean Surface Current Measurement using HF Radars: Improving Accuracy
<b>Dominic Casali</b>	Chemical Engineering	Decellularization of Porcine Tissue Matrices Using Dense-Phase Carbon Dioxide
<b>Jessica Chandler</b>	Exercise Science	Maximization of Children's Physical Activity Opportunities in After School Programs
<b>Evelyn Chukwurah</b>	Biological Sciences	Characterization of PACT and ADAR-1's HIV-1 Inhibitory Actions
<b>Lauren Colomb</b>	Linguistics	Language, Race, and Local Identity in New Orleans: A Comparative Study of Yat and African American English
<b>Suvarthi Das</b>	Environmental Health Sciences	Mechanistic Study of Redox Signaling-induced Toll-like Receptor 4 Activation, Which is Crucial for Disinfection Byproduct (DBP)-mediated NASH Progression
<b>Liya Deng</b>	Library and Information Science	Equity of Access to Cultural Heritage: The Influence of Museum Experience on Learning in Children with Autism Spectrum Disorders

## 2012-2018 SPARC Graduate Research Grant Recipients

University of South Carolina Office of Research

2014-2015 SPARC Recipients		
Recipient Name	Department or Program	Project Title
<b>Daniel Einor</b>	Biological Sciences	Molecular Approach to Studying Effects of Man-made Ionizing Radiation in the Wild
<b>Jennifer Ersek</b>	Epidemiology	Molecular Diagnostic Testing in Non-Small Cell Lung Cancer
<b>Burcu Gokgoz-Kurt</b>	Linguistics	Individual Differences in Cognitive Ability & the Effects of Pronunciation Instruction in Improving Second Language Listening Skills
<b>Katherine Goldberg</b>	Anthropology	Archaeological Explorations of the Dynamics of the 19th Century Slave Trade in Guinea
<b>Justin Hardee</b>	Exercise Science	mTORC1 Regulation of Muscle Protein Synthesis in a Mouse Model of Cancer Cachexia
<b>Li Huang</b>	Business Administration	Social Sharing of Consumption Experience -Transactive Memory System and Motivated Forgetting in Pursuit of Identity Preservation
<b>Morgan Hughey</b>	Health Promotion Education and Behavior	Innovative Spatial and Statistical Methods to Explore the Impact of Obesogenic Environments on Childhood Obesity in Greenville County, SC
<b>Juri Kim</b>	Political Science	Willingness and Opportunity of Actors: Political Legitimacy, Military Capacity, and Conflict
<b>Allison Latshaw</b>	Chemistry and Biochemistry	In-situ Investigation of Flux Crystal Growth of Holmium Silicates through Neutron Diffraction
<b>Xiaocheng Leng</b>	Mechanical Engineering	Simulation of Atherosclerotic Plaque Delamination with Micromechanical Structure of Collagen Fibers
<b>Christopher Ling</b>	Business Administration, Marketing	The Acceptance Source Effect
<b>John MacArthur</b>	Biological Sciences	Using plants to produce and deliver tumor suppressor microRNAs as a novel strategy for preventing colorectal cancer

## 2012-2018 SPARC Graduate Research Grant Recipients

University of South Carolina Office of Research

2014-2015 SPARC Recipients		
Recipient Name	Department or Program	Project Title
<b>Victoria Macht</b>	Experimental Psychology	Neurochemical Bases of Attention in a Rat Model of Fetal Alcohol Spectrum Disorders
<b>Amy Mattison Faye</b>	Health Promotion Education and Behavior	Initial Evaluation of First-in-the-Nation Policy of Immediate Postpartum Insertions of Long Action Reversible Contraceptives in Young Women
<b>Katherine McFadden</b>	History	Garagecraft
<b>Vinal Menon</b>	Biomedical Sciences	Altered Hemodynamics regulates cardiac valve development
<b>Heather Mentrup</b>	Biological Sciences	Elucidating the role of Itch in the crypt base columnar stem cell population and intestinal homeostasis
<b>Danielle Nesbitt</b>	Physical Education	Examining Supine-to-Stand as a Measure of Functional Capacity and Health Across the Lifespan
<b>Jennifer Olejarczyk</b>	Experimental Psychology	Simpler Assessments via Eye Movement Behavior
<b>Randall Owens</b>	History	G.I. Joe vs Jim Crow: Legal Battles over Off-Base Public School Segregation of Military Children in the American South in the 1960s
<b>Kwame Owusu-Daaku</b>	Geography	A Tale of Two Cities: A Comparative Study of the Narratives of Climate Change Vulnerability in the Volta River Delta of Ghana
<b>Rahmi Pak</b>	Electrical Engineering	High-Efficiency Solar Cells Based on Axially Tandem Nanorod CZTSSe/CIGSSe Structure with Q-Dot Down-Conversion Layer
<b>Kayla Penta</b>	Biomedical Sciences	In Vitro Arsenic Exposure Linked to Type 2 Diabetes Progression
<b>Neal Polhemus</b>	History	Neal Polhemus: A Culture of Commodification
<b>Mary Ann Priester</b>	Social Work	Holistic Defense Program Development: A Community-Based Participatory Approach

# 2012-2018 SPARC Graduate Research Grant Recipients

University of South Carolina Office of Research

2014-2015 SPARC Recipients		
Recipient Name	Department or Program	Project Title
<b>Aaron Provence</b>	Pharmaceutical and Biomedical Sciences	"Human Urinary Bladder Smooth Muscle: The Role of Voltage-Gated Potassium Channels"
<b>Sahan Salpage</b>	Chemistry and Biochemistry	Amine functionalized Covalent Organic Frameworks (COF) for efficient carbon dioxide capture and separation
<b>Taylor Short</b>	Mathematics	Chemical Graph Theory in Croatia
<b>Ryan Starcher</b>	Civil Engineering	Strength and Durability of Soils Treated with Chemical Admixture for Unpaved Roads and Airfields
<b>Paul Ryan Strickler</b>	Political Science	Partisan Polarization and Deliberative Democracy: The Role of Affect and Ideology"
<b>Ruoyu Sun</b>	Electrical Engineering	Building and Tree Shadowing Effects in Air-Ground Radio Channels for Unmanned Aircraft Systems (UAS)
<b>Jonathan Trotter</b>	Music Arts, Choral Conducting	"In Hearts at Peace Under an English Heaven": The choral music of four English composers lost in the Great War
<b>Brittany Walter</b>	Anthropology	Urbanization and Famine: Environmental Effects on the Mortality of Medieval London
<b>Derek Williams</b>	Chemistry and Biochemistry	Light-Harvesting and Controllable Energy Transfer in Metal-Organic Frameworks
<b>Hongsheng Zhang</b>	Mechanical Engineering	Numerical Studies of Friction Extrusion Process
<b>Haiming Zhou</b>	Statistics	Bayesian Causal Mediation Analysis for Survival Data

# 2012-2018 SPARC Graduate Research Grant Recipients

University of South Carolina Office of Research

## 2015-2016

2015-2016 SPARC Recipients		
Recipient Name	Department or Program	Project Title
Jada Ach	English	Affective Ecologies in the Work of Jack London
Benjamin Belgrad	Marine Science	Understanding the flexibility and competitive advantages of animal personalities
Brandon Boesch	Philosophy	Scientific representation and human action
Keith Brazendale	Exercise Science	A Pilot Study Investigating the Etiology of Accelerated Weight Gain of Children During Summer vs. School Year
William Brixius	Experimental Psychology	Modulation of Reading Speed
Anusha Chaparala	Drug Discovery and Biomedical Science	Exploring the Mechanism of Macrophage-specific Targeting by Panaxynol, a Derivative of American Ginseng
Chia-Chun Chiang	Finance	How Statutory Reserve Regulation Influences Life insurers' asset allocations in a low-interest-rate environment
Ormonde Cragun	Management	Succession planning infrastructure
Danielle Fahey	Linguistics	Asymmetric Binarity as a Cognitive Universal: The Rhythm of Syntactic Structure
Deeonna Farr	Health Promotion, Education & Behavior	The Impact of False Positive Mammography Results on Breast Cancer Screening Intention in Black Women
Kathleen Franke	School Psychology	Pursuing Happiness: An Investigation of Positive Mental Health in Youth with Autism Spectrum Disorder
Erik Frankforter	Mechanical Engineering	Wave Trapping and Acoustic Metamaterials Concepts for Fiber Optics Sensing

# 2012-2018 SPARC Graduate Research Grant Recipients

University of South Carolina Office of Research

2015-2016 SPARC Recipients		
Recipient Name	Department or Program	Project Title
<b>Clay Fuller</b>	Political Science	Authoritarian Liberalism: How Autocracies Survive in the Modern Global Economy
<b>Megan Gee</b>	Chemistry & Biochemistry	Solvent Effect on Ligand Dynamics in Colloidal QD systems
<b>Gerad Gentry</b>	Philosophy	The Imagination as a First Principle of Knowledge
<b>Victoria Henbest</b>	Communication Sciences & Disorders	Is a systematic analysis of spelling a valid measure of orthographic and phonological awareness skills in 1st grade students?
<b>Michael Hendley</b>	Biomedical Engineering	Biomaterial Scaffolds for Adipose Tissue Engineering
<b>Hope Holt</b>	Biomedical Engineering	Alteration of P-glycoprotein Expression in the Presence of Amyloid-beta and Other Compounds
<b>Chun Hsieh</b>	Chemistry & Biochemistry	Leveraging P450 Enzymes for Renewable Bioenergy Production
<b>Wei Hu</b>	Comparative Literature	Images of Exceptional Women and Chinese Modernity
<b>Chen-Ling Hung</b>	Geography	Storm Hydrographs in Two Subwatersheds of the Rocky Branch Watershed
<b>Laura Jenkins</b>	Chemistry & Biochemistry	Type III TGF $\beta$ receptor regulation of Wnt/bcatenin signaling in ovarian cancer.
<b>Samuel King</b>	History	High-Class Chop Suey: The Making of Chinese Fine Dining in Chicago, 1893-1917
<b>Tyler Lewis</b>	Mathematics	Representation Type of 0-Modality Codimension Two Singularities
<b>Minghui Li</b>	Pharmaceutical Sciences	The Impact of Medicare Payment Policy Change on the Risks Associated with Use of Erythropoiesis Stimulating Agents
<b>Jiixin Liang</b>	Drug Discovery and Biomedical Sciences	TIMP3 as a pivot in the regulation of colon cancer metastasis

## 2012-2018 SPARC Graduate Research Grant Recipients

University of South Carolina Office of Research

2015-2016 SPARC Recipients		
Recipient Name	Department or Program	Project Title
<b>Karina Liles</b>	Computer Science & Engineering	Meeting Students Educational Needs by Engaging Students in Multiplication Practice with Social Robot
<b>Xiao Lin</b>	Computer Science & Engineering	Computational Tool for Identifying Branching Types in Hyphal Growth Models
<b>Junxiu Liu</b>	Epidemiology & Biostatistics	Body Mass Index Trajectories in the First Year and Its Association with the Risk of Being Overweight or Obese at Six Years of Age in Children
<b>Chao Lu</b>	Mechanical Engineering	A Novel Wavelet-Based Approach for Spent Nuclear Fuel Rod Failure Detection in Dry Cask Storage
<b>Xiaonan Ma</b>	Epidemiology & Biostatistics	Food Shopping Patterns and Associations with Obesity
<b>Kyunghee Ma</b>	Social Work	Acculturation Stress and Depression among International Graduate Students from China and India at the University of South Carolina
<b>Alexandria McCombs</b>	Geography	Agricultural Land Use Change Effects on Atmospheric Carbon Dioxide in the US Great Plains
<b>Lauren McGuire</b>	Educational Psychology	Assessing Stability Of CBCLDSM Profiles
<b>Kristen McLaurin</b>	Experimental Psychology	Progression of Temporal Processing Deficits in Aging HIV-1 Transgenic Rats
<b>Seyyedali Mirshahghassemi</b>	Environmental Health Sciences	Evaluation of Polymer-Coated Magnetic Nanoparticles for Oil Separation from Oil-Water Mixture in Natural Waters
<b>Daniela Negraia</b>	Sociology	Comparing the health and happiness of parents and nonparents – The role of adult's education
<b>Elizabeth Nelson</b>	Geography	Algerians Communities in France: Place, Social Networks, and Integration
<b>Stephen O'Hara</b>	History	Televising the Future: Science Fiction Television, the State, and Cold War Popular Culture, 1950-1970
<b>Anais Parada</b>	Anthropology	Wearing Indigeneity: Crafting Local Identities and Selling Global Commodities
<b>Yujia Peng</b>	Electrical Engineering	Miniaturized Frequency Reconfigurable Wireless Power Harvesting Systems on Engineered Substrate Enabled with Patterned Permalloy Thin Film
<b>Ligia Reyes</b>	Health Promotion, Education & Behavior	Understanding Mothers' Food Choices on Behalf of Children Under Five in Rural Panama
<b>Caleb Schlachter</b>	Chemistry & Biochemistry	Structural and Functional Studies of <i>Aspergillus fumigatus</i> 2-Methylcitrate Synthase



## 2012-2018 SPARC Graduate Research Grant Recipients

University of South Carolina Office of Research

2015-2016 SPARC Recipients		
Recipient Name	Department or Program	Project Title
<b>Gary Sellick</b>	History	A Fleeting Glimpse of Freedom: The Evolution of British Emancipation during the Revolutionary War
<b>Maria Sevoyan</b>	Epidemiology & Biostatistics	Causal Effect of Colchicine Therapy on Renal Amyloidosis in Patients with Familial Mediterranean Fever
<b>Mithil Soni</b>	Biological Sciences	Role of miR-489 in Autophagy and Cancer Stem Cell Regulation
<b>Tracey Swartz</b>	Marketing	The Chief Marketing Officer: Resume Builders or Endangered Species
<b>Scott Taylor, Jr.</b>	Hospitality Management	Pop Up Restaurants and Dining Experiences
<b>Natalie Umling</b>	Geological Sciences	A Record of Deglacial Ocean Ventilation from Foraminiferal Radiocarbon in the Eastern Equatorial Pacific
<b>Elise Van Meerssche</b>	Biological Sciences	The effect of the phytoplankton toxin domoic acid on benthic microalgal communities
<b>Lauren Wolf</b>	Biomedical Engineering	RAGE Expression and Inflammation with Amyloid-beta Exposure in Alzheimer's Disease
<b>Wuzhao Yan</b>	Electrical Engineering	Lebesgue Sampling-based Prognostics with Application to Li-ion Batteries
<b>Hassan Zamir, MD</b>	Library and Information Science	Anatomy of a Social Media Movement: Diffusion, Sentiment and Network Analysis
<b>Qingfeng Zhang</b>	Chemistry & Biochemistry	Plasmonic Scissors for Aromatic Side-Chain Cleavage
<b>Yingsha Zhang</b>	Hospitality Management	How does the Spatial Structure of General Tourism Demand Affect the Spatial Structure of Theme Park Attractiveness?
<b>Jie Zhou</b>	Epidemiology & Biostatistics	Joint Model of the CVD Mortality and Nonlinear Longitudinal Effect of Physical Activity

# 2012-2018 SPARC Graduate Research Grant Recipients

University of South Carolina Office of Research

## 2016-2017

2016-2017 SPARC Recipients		
Recipient Name	Department or Program	Project Title
<b>Hessamaldin Abdollahi</b>	Electrical Engineering	Implementation of an Online Adaptive Impedance-Based Control Scheme for Power Converters in DC Distribution Systems
<b>Adewale Adeluyi</b>	Pharmaceutical Sciences	Glia Transcriptome Correlates of Oxidative Stress in Nicotine Dependence
<b>Nadia Al-Sammarraie</b>	Biomedical Science	Cell Specific Role of TGFbeta2 in Heart Valve Development
<b>Oluwole Babatunde</b>	Epidemiology & Biostatistics	Racial Disparities in Diagnosis-to-Treatment Waiting Time and Receipt of Adjuvant Hormonal Therapy among Patients Diagnosed with Breast Cancer in South Carolina
<b>Darun Barazanchy</b>	Mechanical Engineering	Detecting Failure Mechanisms in Fiber Steered Panels Using Non-Destructive Evaluation
<b>Megan Bennett</b>	History	Cold War Orphans
<b>Alycia Boutte</b>	Health, Promotion, Education & Behavior	Diet Quality and Mental Health in Pregnancy Study
<b>Michael Brown</b>	Music Performance	Delphine Ugalde: 'Having It All' in Late 19th Century Paris
<b>Coleman Calva</b>	Biomedical Science	Localization and Effects of Intranasal Orexin A Delivery in an Aged Rat Model
<b>Yoojin Cho</b>	Health, Promotion, Education & Behavior	Novel Tobacco Products with Characterizing Flavors
<b>Towhid Chowdhury</b>	Electrical Engineering	Solid-State Position-Sensitive Neutron Detectors for Bio-Crystallography
<b>Gregory Clark</b>	Mathematics	A Mathematical Model of Dark Net Markets

# 2012-2018 SPARC Graduate Research Grant Recipients

University of South Carolina Office of Research

2016-2017 SPARC Recipients		
Recipient Name	Department or Program	Project Title
<b>Garner Cochran</b>	Mathematics	Diameter of Orientations of Graphs Given Minimum Degree and Girth
<b>Ekaterina Dolgoplova</b>	Chemistry & Biochemistry	Metal-Organic Frameworks as a Versatile Platform for Efficient Energy Transfer
<b>Zhuo Feng</b>	Comparative Literature	Digesting Gender: The Pleasure of Eating in Late Qing and Republican Chinese Liter
<b>Roel Feys</b>	Philosophy	The Ethics of Health Care Commons Institutions
<b>Miranda Fisher</b>	Pharmaceutical Sciences	The Role of NRG3-ErbB4 Pathway in Mediating Nicotine Withdrawal Induced Anxiety-like Behaviors
<b>Keith Fuller</b>	Biological Sciences	Using Satellite Telemetry to Track Environmental and Geographic Preference of a Juvenile Scalloped Hammerhead Shark ( <i>Sphyrna lewini</i> )
<b>Stephanie Gray</b>	History	Restoring America: Historic Preservation and the New Deal
<b>Mark Guinter</b>	Epidemiology & Biostatistics	Development and Application of an Estrogen-Related Dietary Pattern to Predict Postmenopausal Breast Cancer Risk
<b>Claire Hann</b>	Biological Sciences	Modeling Plant Responses to Multiple Stressors
<b>Adam Harrison</b>	Exercise Science	Measuring Error Detection during a Continuous Motor Task
<b>Melinda Hersey</b>	Biomedical Science	The Role of Serotonin in Comorbid Depression and Obesity
<b>Tanya Hundal</b>	Chemistry & Biochemistry	Correlation of Metastatic Potential with Sialic Acid Content in Human Colon Cell Lines to Investigate Binding with Synthetic Lectins: Towards a Cancer Diagnostic

## 2012-2018 SPARC Graduate Research Grant Recipients

University of South Carolina Office of Research

2016-2017 SPARC Recipients		
Recipient Name	Department or Program	Project Title
<b>Tiffany Jones</b>	Anthropology	Exploring the Socialization and Authentication Practices of Spoken Word Poetry
<b>Rasha Karakchi</b>	Computer Science & Engineering	A Special Purpose Compiler and Processor for Pattern Recognition
<b>Antony Keane-Dawes</b>	History	Reimagined Community: Imperial Occupation and Liberation in Santo Domingo, 1818-1844
<b>Kristen Larsen</b>	Biomedical Science	The Role of Interleukin 33/ST2 Axis in Growth and Metastasis of Colorectal Cancer
<b>Jamie Levitt</b>	Hotel, Restaurant & Tourism Administration	An Analysis of Food Tourist Perceptions of Restaurant Authenticity
<b>Min Li</b>	Biological Sciences	NPR1 Interacts with TCP15 to Negatively Regulate Salicylic Acid Accumulation in Plant Defense
<b>Guangfang Li</b>	Chemistry & Biochemistry	Selective Electrocatalytic Glucose Oxidation on Dealloyed Nanosponge Particles
<b>Yue Liu</b>	Sociology	When Are Differences Between Members Beneficial – Versus Detrimental – To Group Solidarity?
<b>Junyu Lu</b>	Geography	Spatial Patterns of Future Drought Risks in the United States
<b>Sara Matherly</b>	School Psychology	Effects of Anxiety on Independence in Adults with Autism Spectrum Disorders
<b>Patrick O'Brien</b>	History	What Difference Does a Revolution Make? Reconsidering Loyalty in Eighteenth Century Nova Scotia
<b>Erik Palmer</b>	Mathematics	Mathematical Modeling of Multi-Responsive Polymer Gels
<b>Kinjal Pandya</b>	Clinical-Community Psychology	Toward Developing and Validating a Tool to Assess Exposure to Ethnic and Gender Focused Campus Microaggressions Among Female Faculty of Color
<b>Christopher Perry</b>	Exercise Science	Eye-Hand Coupling Within Predictable Movements
<b>Shannon Romagnolo</b>	Counselor Education	A Social Justice-Focused School Counselor Education Curriculum: Trainee Knowledge and Perceived Implementation Efficacy

## 2012-2018 SPARC Graduate Research Grant Recipients

University of South Carolina Office of Research

2016-2017 SPARC Recipients		
Recipient Name	Department or Program	Project Title
<b>Stephen Ruxton</b>	Political Science	Representation and Democratic Legitimacy: The New Constructivist Role of American Public Opinion in the Creation of Representation and Democratic Legitimacy”
<b>Michaela Schenkelberg</b>	Exercise Science	Patterns of and Influences on Physical Activity of Preschoolers with Developmental Disabilities
<b>Andrew Schramm</b>	Clinical-Community Psychology	Internalized Homophobia as a Risk Factor for Intimate Partner Violence among Lesbian, Gay, and Bisexual Adults
<b>Holly Smith</b>	Geography	Narrating Social Changes through the Experiences of Ammani Youth Caught in the Middle of a Regional Palimpsest
<b>Joshua Sparks</b>	Exercise Science	Adaptations in Glucose Metabolism Following a Chronic Aerobic Exercise Training Protocol in a Sedentary, Overweight or Obese Population
<b>Olivia Spead</b>	Biomedical Science	Specific Roles of GPC3 in Axon Guidance and Topographic Map Formation during Nervous System Development
<b>Melanie Sutherland</b>	Epidemiology & Biostatistics	Longitudinal Trajectories of Depressive Symptoms among Adolescents with Type 1 Diabetes
<b>Elizabeth Wakefield</b>	Anthropology	Assessing the Accuracy, Validity, and Application of a New Method for Sex Determination Using Compositions, Concentrations, and Isotopic Variations of Iron (Fe) and Copper (Cu) in Human Bone
<b>Clorissa Washington-Hughes</b>	Chemistry & Biochemistry	Enterobactin Biosynthesis: A Potential Target for Treating Pathogenic and Nickel-Resistant Bacteria
<b>Jane Weatherred</b>	Mass Communications	Redevelopment of the Child Sexual Abuse Myth Scale
<b>Jillian Weber</b>	English	Female Athleticism in American Literature
<b>Farzana Yasmeen</b>	Mechanical Engineering	Assessment of Methodologies for Compensation of Out-of-Plane Rotation Error in 3D Digital Image Correlation

## 2012-2018 SPARC Graduate Research Grant Recipients

University of South Carolina Office of Research

2016-2017 SPARC Recipients		
Recipient Name	Department or Program	Project Title
<b>Samantha Yaussy</b>	Anthropology	The Intersections of Health and Wealth: Socioeconomic Status, Frailty, and Mortality in Industrial England
<b>Jingsheng Zhang</b>	Comparative Literature	Re-Reading the Intellectual Turn in 1980s Chinese Poetic Field: A Study of Unofficial Poetry Journals After 1985
<b>Jiali Zheng</b>	Epidemiology & Biostatistics	Association between Inflammatory Potential of Diet and Pancreatic Cancer Risk in Two Prospective Cohorts

# 2012-2018 SPARC Graduate Research Grant Recipients

University of South Carolina Office of Research

## 2017-2018

2017-2018 SPARC Recipients		
Recipient Name	Department or Program	Project Title
<b>Fadi Abboodi</b>	Biomedical Sciences	Genetic/Epigenetic Changes in Human Papillomavirus (HPV) Infected Cells Can Preclude the Need for Continuous Expression of HPV Oncogenes in Developing HPV-Associated Cancers
<b>Stephanie Ackerson</b>	Biological Sciences	The Role of CTC1 in Cell Cycle Progression and DNA Damage Signaling
<b>Huda Atiya</b>	Biomedical Sciences	Role of the Microenvironment in Promoting Left-Right Differences in Mammary Tumor Metastasis
<b>Paul Beguelin</b>	Geological Sciences	Cerium Isotopes as a Tracer of Recycled Sediments in the Earth's Mantle
<b>Chad Beneker</b>	Pharmaceutical Sciences	Structure-based Design and Synthesis of Macrocyclic Peptide BRAFwt Dimerization Inhibitors
<b>Candace Bethea</b>	Mathematics	The Degree Map in Algebraic Geometry
<b>Nandini Bhalla</b>	Mass Communications	The Effects of Self-Construal on Green Corporate Social Responsibility Perceptions: the Moderating Roles of Level of Involvement with Environmental Issues
<b>Matthew Blahut</b>	Chemistry	Biochemical and Functional Characterization of the Ferritin-like Protein FtnB in E. coli
<b>Marian Botchway</b>	Health Promotion, Education, & Behavior	Social Networks and Type 2 Diabetes in Ghana
<b>Zachary Cannizzo</b>	Marine Science	Development of a Bioenergetics Model to Explore the Impacts of a Climate-Mediated Range Shift

## 2012-2018 SPARC Graduate Research Grant Recipients

University of South Carolina Office of Research

2017-2018 SPARC Recipients		
Recipient Name	Department or Program	Project Title
<b>Kelly Caravella</b>	Clinical-Community Psychology	Comparing Autism Symptomatology in Young Children with Fragile X Syndrome and Down Syndrome
<b>Brittany Counts</b>	Exercise Science	The Effect of Cancer-Induced Cachexia on Skeletal Muscle Anabolic Flux
<b>Baillie DeHaven</b>	Chemistry	Selective Photooxidations in Flow: A Path to Greener Industrial Oxidation Methods
<b>Ariel Domlyn</b>	Clinical-Community Psychology	Triangulating What and When: Refining a Readiness Model of Implementation
<b>Lewis Eliot</b>	History	The Illegal Slave Trade in the Atlantic World
<b>Jordan Ezell</b>	School Psychology	Anxiety in Preschool Children with Autism: A Biobehavioral Approach
<b>Kimberly Gaughan</b>	Theater	The Art of Noh in Solo Performance
<b>Melanie Gwynn</b>	Health Services Policy and Management	Continuity of Care: Evaluation of Multi-Facility and Single-Facility Retention in HIV Care and Patient Health Outcomes
<b>Jillian Hinderliter</b>	History	Our Bodies, Our Jewish Selves: Jewish Activists of the U.S. Women's Health Movement, 1968-1988
<b>Jordan Holmes</b>	Chemistry	Ionophore-Grafted Carbon Fiber Microelectrodes as On-Site Trace Metal Speciation Sensor
<b>Md Akhtar Hossain</b>	Biostatistics	A Dynamic Joint Model to Predict Co-morbidity Risks for Chronic Disease Patients
<b>Nozhan Hosseini</b>	Electrical Engineering	Investigating Software Defined Radio Influence in Future Wireless Communication Systems Design and Implementation



## 2012-2018 SPARC Graduate Research Grant Recipients

University of South Carolina Office of Research

2017-2018 SPARC Recipients		
Recipient Name	Department or Program	Project Title
<b>Victor Kidd</b>	Sport & Entertainment Management	Athletic Role Engulfment: An Exploratory Analysis of High School Football Players
<b>Preecha Kittikhunnatham</b>	Chemistry	Photochemical Doping of Semiconductor Nanowires
<b>Alicia Lamarche</b>	Mathematics	Exceptional Collections of the Toric Variety Associated to $D_4$
<b>Chelsea Larsen</b>	Exercise Science	Reducing Sedentary Behavior to Improve Blood Pressure
<b>Libin Lei</b>	Mechanical Engineering	Rational Design and Characterization of Air Electrode Material for Proton Conducting Solid Oxide Electrolysis Cell
<b>Zichen Ma</b>	Statistics	Coexpression Analysis Using Count Data Generated by RNA Sequencing
<b>Richard McCain</b>	Biomedical Sciences	Intracellular Stress Responses Underlying Models of Mitochondrial Neurodegenerative Disease
<b>Kathryn Miranda</b>	Biomedical Sciences	Anti-Inflammatory Role of MicroRNA-30 in Adipose Tissue Macrophages
<b>Nazratun Monalisa</b>	Health Promotion, Education, & Behavior	Influences on Parent's Food Shopping for Children's Consumption in South Carolina
<b>Kendall Murphy</b>	Chemical Engineering	Biomaterials for the Treatment and Prevention of Disuse Muscle Atrophy
<b>Bryanna Nelson</b>	Educational Studies	Opportunity or Optical Illusion? Exploring the Intersections of Athletics, Academics, Exploitation, and Race in the Experiences of African American Male Intercollegiate Athlete Graduates
<b>Peter Nelson</b>	Linguistics	Animacy and Transitivity in Sentence Processing
<b>Trang Nguyen</b>	Social Work	Exploring Adjustment Process of Vietnamese Family Caregivers of Older Adults with Dementia

## 2012-2018 SPARC Graduate Research Grant Recipients

University of South Carolina Office of Research

2017-2018 SPARC Recipients		
Recipient Name	Department or Program	Project Title
<b>Cassie Odahowski</b>	Epidemiology	Identifying Disparities in the Access to Advanced Surgical Techniques for the Treatment of Lung Cancer in the United States
<b>Allison Pierce</b>	Experimental Psychology	Disentangling Overlapping Processes in Inhibition of Return in Visual Search
<b>Sahar Pourhoseini</b>	Environmental Health Sciences	A Comparative Uptake and Toxicity Study of Silver Nanoparticles (AgNPs) on Human Peripheral Blood Mononuclear Cells
<b>Justin Price</b>	Philosophy	Landing Zones - On Target and Transfer
<b>Alex Roberts</b>	School Psychology	A Brief, Adaptable Mindfulness Intervention for Teachers to Reduce Stress/Burnout, Increase Well-Being, and Improve Classroom Climate in Secondary School Settings
<b>Sudipta Saha</b>	Mechanical Engineering	Investigation on Sweating Boosted Cooling in Thermal Power Plant Application
<b>Rachel Schomaker</b>	Biological Sciences	Hungry Algae: Diversification of Trophic Strategies in Cryptophytes
<b>Ammon Sindt</b>	Chemistry	Using the Photo-isomerization of Azobenzenes in Co-crystalline Assemblies for the Slow Release of Fragrances
<b>Sarah Tryon</b>	Exercise Science	Modulation of Glutamatergic Neurotransmission to the Basolateral Amygdala by Muscarinic Acetylcholine Receptors
<b>Brandon Vanderveen</b>	Exercise Science	Calcium's Role in the Disruption of Skeletal Muscle Function and Protein Degradation During Cancer Cachexia
<b>Andrew Walgren</b>	History	Media Combat: The Great War and the Transformation of American Culture
<b>Autumn Wertz</b>	Studio Art	Contemporary Political Art and Columbia
<b>Hays Whitlatch</b>	Mathematics	Phylogenetic Distribution of Mitochondrial Genome
<b>Lara Wilson</b>	Music Performance	Bel Canto vs. Punk: Lessons for the Cross-Training Singer and Teacher

## 2012-2018 SPARC Graduate Research Grant Recipients

University of South Carolina Office of Research

2017-2018 SPARC Recipients		
Recipient Name	Department or Program	Project Title
<b>Caleb Wittum</b>	History	Chasquis of Liberty: Indigenous Intellectuals in Bolivia's War of Independence, 1809-1825
<b>Duncan Wright</b>	Mathematics	Entropy of Quantum Random Walks
<b>Kristina Zarenko</b>	Anthropology	Skeletal Evidence of Vitamin D Deficiency Osteomalacia and Tuberculosis Among Migrant Groups in Nineteenth and Twentieth Century St. Louis, Missouri
<b>Yuleng Zeng</b>	Political Science	Economic Coercion, Credibility, and Peace
<b>Jingwen Zhong</b>	Sociology	Social Influence Network Model of Performance Expectations

# 2012-2018 SPARC Graduate Research Grant Recipients

University of South Carolina Office of Research

## 2018-2019

2018-2019 SPARC Recipients		
Recipient Name	Degree Program	Project Title
<b>Trenton Agrelius</b>	Biological Sciences	Message mystery: How Daphnia relay environmentally relevant information to future generations.
<b>Saba Arash</b>	Physics and Astronomy	Second Harmonic Generation Measurement on Multiferroic Janus Fibers
<b>Sean Ardor</b>	Theatre	The Embodied Imagination: Noh Drama and the Power of the Individual Performer
<b>Madeline Atwell</b>	Anthropology	Mental Institutionalization and Health: Biocultural perspectives of skeletal trauma and disease from state hospitals in the 20th-century United States
<b>Alexandra Bethlenfalvy</b>	History	"Operation Freedom Summer": Highlander Folk School and the Expansion of Voter Education Pedagogy, 1954-1964
<b>Genine Blue</b>	Educational Psychology and Research	Investigating Elements of Responsive Instruction in Pre-service Teachers' Classrooms
<b>Rachel Bridges</b>	School Psychology	Validation of a Computerized Attention Screening Measure
<b>Margaret Carson</b>	Environmental Health Sciences	The Effect of Temperature Variation on Lyngbya wollei Toxin in Adult Zebrafish in Lake Wateree, SC
<b>Danda Chapagai</b>	Pharmaceutical Sciences	Selective Inhibition of the Polo-Like Kinase 1 for Prostate Cancer
<b>Eric Chinaeke</b>	Pharmaceutical Sciences (Pharmaceutical and Health Outcomes)	Use of Highly-Active Antiretroviral Therapies (HAART) and Risk of Diabetes Among Elderly Medicare Beneficiaries With HIV

## 2012-2018 SPARC Graduate Research Grant Recipients

University of South Carolina Office of Research

2018-2019 SPARC Recipients		
Recipient Name	Degree Program	Project Title
<b>Anna Cofie</b>	Health Services Policy and Management	Trends in antenatal care use and reasons for non-compliance with WHO recommendations in Ghana
<b>Kaitlyn Crosby</b>	Health Services Policy and Management	Clinically Integrated Networks: The 'Magic Pill' for Improving the Quality of Health Care?
<b>Leily Daneshian</b>	Chemistry and Biochemistry	Intradiol Ring Cleavage Dioxygenases in <i>Tetranychus urticae</i> Xenobiotic Metabolism
<b>Melissa DeVelvis</b>	History	Gendering Secession: Women and Politics in South Carolina, 1860-1861
<b>Shelby Dickerson</b>	Chemistry and Biochemistry	Tuning the Redox Properties of Silicon Phthalocyanines by Peripheral-Substitution for Organic Photocatalysis
<b>Kelli Dubois</b>	Health Promotion, Education, and Behavior	Decision Making for Treatment and Management Methods Over the Illness Trajectory of Ulcerative Colitis
<b>Calley Fisk</b>	Sociology	Unequal States of America: How State-level Racial Policies Impact Individual Health Disparities
<b>Marco Forgione</b>	Philosophy	Path Integrals and Holism
<b>Jill Found</b>	History	Institutional Enslavement: Enslaved Lives at American Colleges and Universities
<b>Paul Fram</b>	Educational Psychology and Research	A Qualitative Analysis of the Intersections with Race in Middle School Children's Home/School Identities and Perceptions of School Discipline Experiences
<b>Nazli Gharraee</b>	Biomedical Engineering	Role of smooth muscle progenitor cells in the progression of thoracic aortic aneurysm in a mouse model of Marfan syndrome
<b>Andrew Green</b>	Creative Writing	When America Worked

## 2012-2018 SPARC Graduate Research Grant Recipients

University of South Carolina Office of Research

2018-2019 SPARC Recipients		
Recipient Name	Degree Program	Project Title
<b>Michael Gregory</b>	Philosophy	The Sources of Juridical Normativity in Kant
<b>Zac Hart</b>	Environmental Health Sciences	Assessing Stakeholder Needs and Preferences for Coastal Swimming Advisories in Charleston, South Carolina
<b>William Hayes</b>	Experimental Psychology	Modeling the role of arousal in risky decision-making
<b>Nicholas Heiserman</b>	Sociology	Complex Stereotyping Stereotypes at the Intersections of Race Gender Age and Social Class
<b>Xiao Huang</b>	Geography	A Deep Learning Supported Flood Mapping Framework that Integrates Remote Sensing and Social Sensing
<b>Yuqin Jiang</b>	Geography	Analyzing Human Mobility Patterns during Hurricane Matthew Evacuation
<b>Yanping Jiang</b>	Health Promotion, Education, and Behavior	Effects of a Resilience-Based Psychosocial Intervention on Cortisol Regulation for Children Affected by Parental HIV
<b>Nare Kareptyan</b>	Computer Science	Area Coverage of River Under Consideration of River Meanders
<b>Joshua Kleppinger</b>	Electrical Engineering	Novel 4H-SiC Radiation Detector for Remote Characterization of High Level Radioactive Waste Tank and Nuclear Safeguard
<b>Allison Lewis</b>	Exercise Science	Effects of Social Comparative Feedback on Motor Sequence Learning
<b>Xing Liu</b>	Management	The Effect of Team Faultlines on Team Adaptation to Member Change
<b>Jennifer Mandelbaum</b>	Health Promotion, Education, and Behavior	Socioeconomic Disadvantage and Childhood Health: Obesity and Asthma in a Syndemics Perspective

## 2012-2018 SPARC Graduate Research Grant Recipients

University of South Carolina Office of Research

2018-2019 SPARC Recipients		
Recipient Name	Degree Program	Project Title
<b>Gwen Miller</b>	Marine Science	Use of computed tomography to investigate the influence of elevation on below ground biomass within a salt marsh
<b>Ryan Montalvo</b>	Exercise Science	Effect of Increased Superoxide Dismutase-2 Expression on Chemotherapy-Induced Cardiac Dysfunction
<b>Omonfe Omofuma</b>	Epidemiology and Biostatistics	Dietary Advanced Glycation End-Products (dAGE) and Breast Cancer Risk
<b>William Ovalle-Villamil</b>	Civil Engineering	Piping Erosion in Earthen Structures Physical Modeling to Evaluate the Effects of Soil Gradation and Particle Shape
<b>Chamberline Ozigbu</b>	Health Services Policy and Management	Beyond Vaccination Coverage: A Critical Look at Never-Vaccinated Children in Ethiopia
<b>Michelle Passerotti</b>	Biological Sciences	Non-Lethal Age Estimation Using Near Infrared Spectroscopy (NIRS): An Innovative Tool For Fisheries and Conservation Management
<b>Kaitlyn Pilarzyk</b>	Biomedical Sciences	The Role of PDE11A4 in Social Isolation
<b>Elizabeth Regan</b>	Exercise Science	Integrating Stroke Survivors into Cardiac Rehabilitation
<b>Gustavo Schneider</b>	Marketing	The Numeral Effect: Are 12 and Dozen the Same?
<b>Khairul Siddiqi</b>	Health Services Policy and Management	Trends of Age-specific Comorbidity Burden and Resource Use, and Factors Predicting Costs and Mortality of the People Living with HIV in the US Inpatient Department, 2002 to 2015.

## 2012-2018 SPARC Graduate Research Grant Recipients

University of South Carolina Office of Research

2018-2019 SPARC Recipients		
Recipient Name	Degree Program	Project Title
<b>Amanda Stafford McReil</b>	Social Work	The Role of Local Nonprofits in the Promotion, Protection and Provision of Children's Rights for Unaccompanied and Separated Minors
<b>Madeline Steiner</b>	History	The Robber Barons of Show Business: Traveling Amusements and the Development of the American Entertainment Industry, 1870-1910
<b>Michael Stutz</b>	Statistics	Machine Learning Algorithms for Partially Supervised Data with Applications in Group Testing
<b>Corinne Trott</b>	Marine Science	Utilizing Salinity as a Predictor for the Indian Summer Monsoon Onset and Forecasting
<b>Keller VandeBogert</b>	Mathematics	A Classification of Compressed Artinian Algebras of Prescribed Socle Type
<b>Robert Vandermolten</b>	Mathematics	Algebras of Prescribed Socle Type
<b>Carla Wall</b>	School Psychology	Decoding the Heterogeneity of Autism Spectrum Disorder: A Biobehavioral Study of Social Attention Across Intellectual Ability, Sex, and Syndrome
<b>Fan Wang</b>	Chemistry and Biochemistry	Polymerization in Place: Conversion of Mobile Contaminants to Fixed Polymers
<b>Yingzheng Wang</b>	Environmental Health Sciences	Late Effect of Doxorubicin-induced Ovarian Inflammation on Female Ovarian Function and Fertility
<b>Ashley White</b>	Health Promotion, Education, and Behavior	Snip, Snip: Vasectomy in the American South



## 2012-2018 SPARC Graduate Research Grant Recipients

University of South Carolina Office of Research

2018-2019 SPARC Recipients		
Recipient Name	Degree Program	Project Title
<b>Jeffrey Williams</b>	History	Social Engineers: The NAACP's Local Lawyers and the Fight for Human and Civil Rights
<b>Amber Wilson</b>	Criminology and Criminal Justice	Community Corrections Officer Orientation, Gender, and Decision-Making
<b>Qi Zhang</b>	Pharmaceutical Sciences	Maternal Stress and Early-Onset Colorectal Cancer