

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

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

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

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

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

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

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

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

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		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 ₃ -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

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

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

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Victoria Macht	Experimental Psychology	Neurochemical Bases of Attention in a Rat Model of Fetal Alcohol Spectrum Disorders
Amy Mattison Faye	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
Katherine McFadden	History	Garagecraft
Vinal Menon	Biomedical Sciences	Altered Hemodynamics regulates cardiac valve development
Heather Mentrup	Biological Sciences	Elucidating the role of Itch in the crypt base columnar stem cell population and intestinal homeostasis
Danielle Nesbitt	Physical Education	Examining Supine-to-Stand as a Measure of Functional Capacity and Health Across the Lifespan
Jennifer Olejarczyk	Experimental Psychology	Simpler Assessments via Eye Movement Behavior
Randall Owens	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
Kwame Owusu-Daaku	Geography	A Tale of Two Cities: A Comparative Study of the Narratives of Climate Change Vulnerability in the Volta River Delta of Ghana
Rahmi Pak	Electrical Engineering	High-Efficiency Solar Cells Based on Axially Tandem Nanorod CZTSSe/CIGSSe Structure with Q-Dot Down-Conversion Layer
Kayla Penta	Biomedical Sciences	In Vitro Arsenic Exposure Linked to Type 2 Diabetes Progression
Neal Polhemus	History	Neal Polhemus: A Culture of Commodification
Mary Ann Priester	Social Work	Holistic Defense Program Development: A Community-Based Participatory Approach

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

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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
Clay Fuller	Political Science	Authoritarian Liberalism: How Autocracies Survive in the Modern Global Economy

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Megan Gee	Chemistry & Biochemistry	Solvent Effect on Ligand Dynamics in Colloidal QD systems
Gerad Gentry	Philosophy	The Imagination as a First Principle of Knowledge
Victoria Henbest	Communication Sciences & Disorders	Is a systematic analysis of spelling a valid measure of orthographic and phonological awareness skills in 1st grade students?
Michael Hendley	Biomedical Engineering	Biomaterial Scaffolds for Adipose Tissue Engineering
Hope Holt	Biomedical Engineering	Alteration of P-glycoprotein Expression in the Presence of Amyloid-beta and Other Compounds
Chun Hsieh	Chemistry & Biochemistry	Leveraging P450 Enzymes for Renewable Bioenergy Production
Wei Hu	Comparative Literature	Images of Exceptional Women and Chinese Modernity
Chen-Ling Hung	Geography	Storm Hydrographs in Two Subwatersheds of the Rocky Branch Watershed
Laura Jenkins	Chemistry & Biochemistry	Type III TGF β receptor regulation of Wnt/bcatenin signaling in ovarian cancer.
Samuel King	History	High-Class Chop Suey: The Making of Chinese Fine Dining in Chicago, 1893-1917
Tyler Lewis	Mathematics	Representation Type of 0-Modality Codimension Two Singularities
Minghui Li	Pharmaceutical Sciences	The Impact of Medicare Payment Policy Change on the Risks Associated with Use of Erythropoiesis Stimulating Agents
Jiaxin Liang	Drug Discovery and Biomedical Sciences	TIMP3 as a pivot in the regulation of colon cancer metastasis
Karina Liles	Computer Science & Engineering	Meeting Students Educational Needs by Engaging Students in Multiplication Practice with Social Robot
Xiao Lin	Computer Science & Engineering	Computational Tool for Identifying Branching Types in Hyphal Growth Models

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Junxiu Liu	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
Chao Lu	Mechanical Engineering	A Novel Wavelet-Based Approach for Spent Nuclear Fuel Rod Failure Detection in Dry Cask Storage
Xiaonan Ma	Epidemiology & Biostatistics	Food Shopping Patterns and Associations with Obesity
Kyunghee Ma	Social Work	Acculturation Stress and Depression among International Graduate Students from China and India at the University of South Carolina
Alexandria McCombs	Geography	Agricultural Land Use Change Effects on Atmospheric Carbon Dioxide in the US Great Plains
Lauren McGuire	Educational Psychology	Assessing Stability Of CBCLDSM Profiles
Kristen McLaurin	Experimental Psychology	Progression of Temporal Processing Deficits in Aging HIV-1 Transgenic Rats
Seyyedali Mirshahghassemi	Environmental Health Sciences	Evaluation of Polymer-Coated Magnetic Nanoparticles for Oil Separation from Oil-Water Mixture in Natural Waters
Daniela Negraia	Sociology	Comparing the health and happiness of parents and nonparents – The role of adult's education
Elizabeth Nelson	Geography	Algerians Communities in France: Place, Social Networks, and Integration
Stephen O'Hara	History	Televising the Future: Science Fiction Television, the State, and Cold War Popular Culture, 1950-1970
Anais Parada	Anthropology	Wearing Indigeneity: Crafting Local Identities and Selling Global Commodities
Yujia Peng	Electrical Engineering	Miniaturized Frequency Reconfigurable Wireless Power Harvesting Systems on Engineered Substrate Enabled with Patterned Permalloy Thin Film
Ligia Reyes	Health Promotion, Education & Behavior	Understanding Mothers' Food Choices on Behalf of Children Under Five in Rural Panama
Caleb Schlachter	Chemistry & Biochemistry	Structural and Functional Studies of <i>Aspergillus fumigatus</i> 2-Methylcitrate Synthase
Gary Sellick	History	A Fleeting Glimpse of Freedom: The Evolution of British Emancipation during the Revolutionary War
Maria Sevoyan	Epidemiology & Biostatistics	Causal Effect of Colchicine Therapy on Renal Amyloidosis in Patients with Familial Mediterranean Fever

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Mithil Soni	Biological Sciences	Role of miR-489 in Autophagy and Cancer Stem Cell Regulation
Tracey Swartz	Marketing	The Chief Marketing Officer: Resume Builders or Endangered Species
Scott Taylor, Jr.	Hospitality Management	Pop Up Restaurants and Dining Experiences
Natalie Umling	Geological Sciences	A Record of Deglacial Ocean Ventilation from Foraminiferal Radiocarbon in the Eastern Equatorial Pacific
Elise Van Meerssche	Biological Sciences	The effect of the phytoplankton toxin domoic acid on benthic microalgal communities
Lauren Wolf	Biomedical Engineering	RAGE Expression and Inflammation with Amyloid-beta Exposure in Alzheimer's Disease
Wuzhao Yan	Electrical Engineering	Lebesgue Sampling-based Prognostics with Application to Li-ion Batteries
Hassan Zamir, MD	Library and Information Science	Anatomy of a Social Media Movement: Diffusion, Sentiment and Network Analysis
Qingfeng Zhang	Chemistry & Biochemistry	Plasmonic Scissors for Aromatic Side-Chain Cleavage
Yingsha Zhang	Hospitality Management	How does the Spatial Structure of General Tourism Demand Affect the Spatial Structure of Theme Park Attractiveness?
Jie Zhou	Epidemiology & Biostatistics	Joint Model of the CVD Mortality and Nonlinear Longitudinal Effect of Physical Activity

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Hessamaldin Abdollahi	Electrical Engineering	Implementation of an Online Adaptive Impedance-Based Control Scheme for Power Converters in DC Distribution Systems
Adewale Adeluyi	Pharmaceutical Sciences	Glia Transcriptome Correlates of Oxidative Stress in Nicotine Dependence
Nadia Al-Sammarraie	Biomedical Science	Cell Specific Role of TGFbeta2 in Heart Valve Development
Oluwole Babatunde	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
Darun Barazanchy	Mechanical Engineering	Detecting Failure Mechanisms in Fiber Steered Panels Using Non-Destructive Evaluation
Megan Bennett	History	Cold War Orphans
Alycia Boutte	Health, Promotion, Education & Behavior	Diet Quality and Mental Health in Pregnancy Study
Michael Brown	Music Performance	Delphine Ugalde: 'Having It All' in Late 19th Century Paris
Coleman Calva	Biomedical Science	Localization and Effects of Intranasal Orexin A Delivery in an Aged Rat Model
Yoojin Cho	Health, Promotion, Education & Behavior	Novel Tobacco Products with Characterizing Flavors
Towhid Chowdhury	Electrical Engineering	Solid-State Position-Sensitive Neutron Detectors for Bio-Crystallography
Gregory Clark	Mathematics	A Mathematical Model of Dark Net Markets

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

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

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

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

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2017-2018

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

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

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2017-2018 SPARC Recipients		
Recipient Name	Department or Program	Project Title
Victor Kidd	Sport & Entertainment Management	Athletic Role Engulfment: An Exploratory Analysis of High School Football Players
Preecha Kittikhunnatham	Chemistry	Photochemical Doping of Semiconductor Nanowires
Alicia Lamarche	Mathematics	Exceptional Collections of the Toric Variety Associated to D_4
Chelsea Larsen	Exercise Science	Reducing Sedentary Behavior to Improve Blood Pressure
Libin Lei	Mechanical Engineering	Rational Design and Characterization of Air Electrode Material for Proton Conducting Solid Oxide Electrolysis Cell
Zichen Ma	Statistics	Coexpression Analysis Using Count Data Generated by RNA Sequencing
Richard McCain	Biomedical Sciences	Intracellular Stress Responses Underlying Models of Mitochondrial Neurodegenerative Disease
Kathryn Miranda	Biomedical Sciences	Anti-Inflammatory Role of MicroRNA-30 in Adipose Tissue Macrophages
Nazratun Monalisa	Health Promotion, Education, & Behavior	Influences on Parent's Food Shopping for Children's Consumption in South Carolina
Kendall Murphy	Chemical Engineering	Biomaterials for the Treatment and Prevention of Disuse Muscle Atrophy
Bryanna Nelson	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
Peter Nelson	Linguistics	Animacy and Transitivity in Sentence Processing
Trang Nguyen	Social Work	Exploring Adjustment Process of Vietnamese Family Caregivers of Older Adults with Dementia
Cassie Odahowski	Epidemiology	Identifying Disparities in the Access to Advanced Surgical Techniques for the Treatment of Lung Cancer in the United States
Allison Pierce	Experimental Psychology	Disentangling Overlapping Processes in Inhibition of Return in Visual Search

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2017-2018 SPARC Recipients		
Recipient Name	Department or Program	Project Title
Sahar Pourhoseini	Environmental Health Sciences	A Comparative Uptake and Toxicity Study of Silver Nanoparticles (AgNPs) on Human Peripheral Blood Mononuclear Cells
Justin Price	Philosophy	Landing Zones - On Target and Transfer
Alex Roberts	School Psychology	A Brief, Adaptable Mindfulness Intervention for Teachers to Reduce Stress/Burnout, Increase Well-Being, and Improve Classroom Climate in Secondary School Settings
Sudipta Saha	Mechanical Engineering	Investigation on Sweating Boosted Cooling in Thermal Power Plant Application
Rachel Schomaker	Biological Sciences	Hungry Algae: Diversification of Trophic Strategies in Cryptophytes
Ammon Sindt	Chemistry	Using the Photo-isomerization of Azobenzenes in Co-crystalline Assemblies for the Slow Release of Fragrances
Sarah Tryon	Exercise Science	Modulation of Glutamatergic Neurotransmission to the Basolateral Amygdala by Muscarinic Acetylcholine Receptors
Brandon Vanderveen	Exercise Science	Calcium's Role in the Disruption of Skeletal Muscle Function and Protein Degradation During Cancer Cachexia
Andrew Walgren	History	Media Combat: The Great War and the Transformation of American Culture
Autumn Wertz	Studio Art	Contemporary Political Art and Columbia
Hays Whitlatch	Mathematics	Phylogenetic Distribution of Mitochondrial Genome
Lara Wilson	Music Performance	Bel Canto vs. Punk: Lessons for the Cross-Training Singer and Teacher
Caleb Wittum	History	Chasquis of Liberty: Indigenous Intellectuals in Bolivia's War of Independence, 1809-1825
Duncan Wright	Mathematics	Entropy of Quantum Random Walks
Kristina Zarenko	Anthropology	Skeletal Evidence of Vitamin D Deficiency Osteomalacia and Tuberculosis Among Migrant Groups in Nineteenth and Twentieth Century St. Louis, Missouri

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2017-2018 SPARC Recipients		
Recipient Name	Department or Program	Project Title
Yuleng Zeng	Political Science	Economic Coercion, Credibility, and Peace
Jingwen Zhong	Sociology	Social Influence Network Model of Performance Expectations