

University of South Carolina — May 2021 New Grant Awards Report

PI's College	PI's Department	PI Name	Award Title	Sponsoring Agency	Award Total
<i>Arnold School of Public Health</i>					
	<i>Applied Research & Evaluation (CARE)</i>				
		<i>Moncrieft, Ashley</i>	<i>Evaluation Services Proposal for LRADAC's Community Services Department</i>	Lexington/Richland Area and Drug Abuse Council	\$ 28,129
	<i>Center for Community Health Alignment</i>				
		<i>Smithwick, Julie</i>	<i>Increasing Capacity to Address Inequities in South Carolina</i>	The Sisters of Charity Foundation of SC	\$ 35,000
	<i>Environmental Health Sciences</i>				
		<i>Lead, Jamie</i>	<i>Developing a nano-enabled prototype for the metal removal in electroplating wastes</i>	SC Research Authority (SCRA)	\$ 15,000
	<i>Epidemiology & Biostatistics</i>				
		<i>Liu, Jihong</i>	<i>South Carolina Interdisciplinary Maternal and Child Health Leadership Training Program: Undergraduate Pathways - SC MACH UP</i>	Health Resources and Services Administration (HRSA)/HHS	\$ 775,000
		<i>Xiao, Feifei</i>	<i>The evolution of copy number variations in the AT-rich Plasmodium genome - Subcontract w/UVA</i>	University of Virginia/NIH	\$ 219,492
	<i>Health Prom., Educ. & Behavior</i>				
		<i>Annang-Ingram, Lucy</i>	<i>Qualitative Assessment of Health of Older African Americans in South Carolina: Understanding Disparities in the Context of COVID</i>	American Association of Retired Persons (AARP) South Carolina	\$ 26,672
		<i>Monroe, Courtney</i>	<i>Gamifying Social Support to Promote Physical Activity Among Insufficiently Active African American Adults in the Southeast United States: A Mixed-Methods Approach</i>	Vanderbilt University Medical Center/NIH	\$ 74,500
	<i>Health Services Policy & Mgmt</i>				
		<i>Andrews, Christina</i>	<i>Treatment for Alcohol Use Disorder in Medicaid Managed Care</i>	National Institute on Alcohol Abuse and Alcoholism (NIAAA)/NIH	\$ 2,573,343
	<i>PASOS</i>				
		<i>Martin, Maria</i>	<i>SC AgWHP-COVID 19 CHW Services</i>	SC Primary Health Care Association/SC Agricultural Worker Health Program/HHS	\$ 39,600
		<i>Young, Michael</i>	<i>2021 Sisters of Charity Breaking the Cycle</i>	Sisters of Charity Foundation of SC	\$ 40,000
<i>College of Arts and Sciences</i>					
	<i>Archaeology & Anthropology</i>				
		<i>DePratter, Chester</i>	<i>MCRD Parris Island Artifact Curation</i>	Marine Corps Recruit Depot, Parris Island, SC/DOD	\$ 50,000
	<i>Baruch Institute</i>				
		<i>Morris, James</i>	<i>Maryville Coastal Wetland Restoration and Community Resiliency (SC)</i>	Georgia Institute of Technology/NFWF/NOAA	\$ 45,382
	<i>Biological Sciences</i>				

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		Speiser, Daniel	(PI - Nicholas Steichmann) Investigating the relationship between dynamic color change and endocrine-linked visual organs in caridean shrimp.	Slocum-Lunz Foundation	\$ 1,200
	Chemistry & Biochemistry				
		Fountain, Augustus	Technology Review for RTI International	RTI International/Montana State University/DHS	\$ 4,800
		Greytak, Andrew	Ligand exchange equilibrium at quantum dot surfaces in polar and aqueous solvent environments	National Science Foundation (NSF)	\$ 443,291
		zur Loye, Hans-Conrad	Crystal Growth of New Complex Actinide Containing Oxides, Fluorides and Chalcogenides and the Investigation of their Optical and Magnetic Properties	US Department of Energy (DOE)	\$ 527,665
	Criminology & Criminal Justice				
		Klein, Brent	Investigating the Root Causes of School Violence: A Case Control Study of School Violent Offenders, Youth Violent Offenders, and Non-offending Youths	The City University of New York, John Jay College/NIJ/DOJ	\$ 133,619
	Mathematics				
		Tan, Changhui	Nonlocal Transport Equations in Fluids, Swarming, and Traffic Flows	National Science Foundation (NSF)	\$ 183,008
		Wang, Qi	Dynamic Multiscale Digital Twin for a Lung Cancer Patient	US Department of Energy (DOE)	\$ 50,000
	Psychology				
		Becker, Kimberly	Scaling Early Detection and Personalized, Evidence-Based Solutions to Treatment Access: A Randomized Controlled Trial of an Online Risk Assessment and Intervention System	Esther A. & Joseph Klingenstein Fund	\$ 100,000
		Conte, Stefania	K99/R00 The Development of Face-Processing Abilities in Infants: Structural and Functional Brain Changes During the First Year of Life (Application Identifier 599066)	National Institute of Child Health & Human Development (NICHD)/NIH	\$ 216,802
		Wippold, Guillermo	Developing a Community-Informed, Peer-to-Peer Intervention to Improve Health-Related Quality of Life among African American Men	National Institute on Minority Health and Health Disparities (NIMHD)/NIH	\$ 771,903
	School of Earth, Ocean & Env.				
		Bourbonnais, Annie	US GEOTRACES GP17-OCE: Mapping nitrous oxide sources through isotopic measurements in the Pacific Ocean	National Science Foundation (NSF)	\$ 47,967
		Bulusu, Subrahmanyam	Monitoring Marine Heatwaves along the US East coast using Satellite Observations and model simulations	College of Charleston/NASA (EPSCoR)	\$ 25,000
		Yogodzinski, Gene	Distinguishing Sediment, Serpentinite, and Altered Oceanic Crust in the Source of Aleutian Volcanic Rocks Using Boron & Molybdenum Isotopes	National Science Foundation (NSF)	\$ 370,790
	Statistics				
		Habing, Brian	IPA for NISS Associate Director for Education Activities and Research	National Institute of Statistical Sciences	\$ 71,143

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College of Education					
	<i>Education - Dean's Office</i>				
		<i>Berry, Barnett</i>	<i>All4SC Whole Child</i>	Learning Policy Institute (LPI)	\$ 100,000
	<i>Educational Studies</i>				
		<i>Greer, Fred</i>	<i>The Kindergarten Readiness Assessment report (KRA report)</i>	SC Education Oversight Committee	\$ 53,224
		<i>Irvin, Matthew</i>	<i>Leveraging Microdata From South Carolina Integrated Data System to Inform Rural Community Health and Educational Initiatives</i>	Illinois Public Health Institute (IPHI)	\$ 100,000
	<i>Instruction & Teacher Educ.</i>				
		<i>Lotter, Christine</i>	<i>The Bluford x Mae project,</i>	College of Charleston/SC Space Grant Consortium (SCSGC)/NASA	\$ 7,500
College of Engineering & Comp.					
	<i>Chemical Engineering</i>				
		<i>Lauterbach, Jochen</i>	<i>Compact Catalytic Membrane Reactor for One-Step High-Efficiency Ammonia Synthesis at Moderate Temperatures and Pressures</i>	E2H2NANO, LLC/DOE	\$ 449,854
		<i>Meekins, Benjamin</i>	<i>Nuvera Sample Measurement Study</i>	Nuvera Fuel Cells, LLC	\$ 5,372
		<i>White, Ralph</i>	<i>Predictive Performance and Life Modeling of Implantable Medical Batteries 2021</i>	EaglePicher Medical Power, LLC	\$ 43,336
	<i>Civil & Environmental Eng.</i>				
		<i>Caicedo, Juan</i>	<i>SFSU Subcontract for REU SITE: Collaborative Research: Integrated Academia-Industry Research Experience for Undergraduate in Smart Structure Technology (IAIRESST)</i>	San Francisco State University/NSF	\$ 56,449
	<i>Computer Science & Engineering</i>				
		<i>Srivastava, Biplav</i>	<i>Task Order 3: A flexible Conversational Agent for home networking setting using Rasa</i>	Tantiv4, Inc.	\$ 16,000
		<i>Zeng, Qiang</i>	<i>Collaborative Research: CNS Core: Medium: Towards Understanding and Handling Problems Due to Coexistence of Multiple IoT Platforms</i>	National Science Foundation (NSF)	\$ 300,000
	<i>Electrical Engineering</i>				
		<i>Khan, Asif</i>	<i>Development of AlxGa1-xN Multiple Quantum Well UVC Laser Structures over Pulsed Lateral Epitaxially Overgrown Low-defect density AlN templates</i>	US Army Research Office (ARO)/DOD	\$ 99,923
	<i>Mechanical Engineering</i>				
		<i>Banerjee, Sourav</i>	<i>HiCAM: Assess SOA NDE for Hi-rate Manufacturing</i>	National Aeronautics & Space Administration (NASA)	\$ 107,969
		<i>Barazanchy, Darun</i>	<i>WeldDone Simulation of Induction Welding Case Runs and Material Characterization</i>	Spirit AeroSystems	\$ 36,453
		<i>Bayoumi, Abdel</i>	<i>Predictive Manufacturing Solution for BMW MC: Delamination of the G-06 Spoiler</i>	BMW	\$ 147,971

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		<i>Chen, Fanglin</i>	<i>Novel Unitized Regenerative Solid Oxide Cell to Support NASA's Planetary Exploration Missions</i>	College of Charleston/SC Space Grant Consortium (SCSGC)/NASA EPSCoR	\$ 20,000
		<i>Huang, Kevin</i>	<i>Understanding Fundamental Ionic Storage Mechanisms in Atomic Layers of Transition Metal Oxides for Next-Generation Zn-ion Batteries</i>	US Army (Material Command)/DOD	\$ 1,000,000
		<i>Won, Sang Hee</i>	<i>Chemical Functional Group Approach for Low-Temperature Oxidation of Liquid Fuels</i>	US Army Research Office (ARO)/DOD	\$ 1,000,000
		<i>Yu, Lingyu</i>	<i>Wideband nondestructive characterization and defect detection with noncontact laser Lamb waves for advanced composite materials</i>	College of Charleston/NASA (EPSCoR)	\$ 25,000
College of Nursing					
	<i>Nursing</i>				
		<i>Andrews, Jeanette</i>	<i>Jonas Scholars 2021-2023 - Wandji</i>	Jonas Nursing and Veterans Healthcare (Jonas)/AACN	\$ 15,000
College of Social Work					
	<i>Social Work - Dean's Office</i>				
		<i>Levkoff, Sue</i>	<i>Harvard Social Technology for Global Aging Research Initiative</i>	Harvard Medical School/Jiangsu Industrial Technology Research Institute	\$ 77,844
		<i>Seay, Kristen</i>	<i>Assessing the Role of Social Determinants in Foster Care Entry and Exit</i>	USC Educational Foundation/The Duke Endowment	\$ 245,000
School of Law					
	<i>Children's Law Center</i>				
		<i>Morris, Carolyn</i>	<i>DSS - Coordination of S.C. Citizens Review Panels</i>	SC Department of Social Services (DSS)	\$ 67,911
			<i>SC DSS Contract - Court Liaison Program</i>	SC Department of Social Services (DSS)	\$ 1,772,580
			<i>DSS - Children's Justice Act: Support of Task Force</i>	SC Department of Social Services (DSS)/HHS	\$ 88,371
			<i>S.C. DJJ Training & Services Contract</i>	SC Department of Juvenile Justice	\$ 244,000
			<i>South Carolina Senate Contract</i>	South Carolina Senate	\$ 358,824
			<i>DSS - Children's Justice Act: Operation of Children's Law Center</i>	SC Department of Social Services (DSS)/HHS	\$ 173,527
			<i>DSS - Child Welfare Training</i>	SC Department of Social Services (DSS)	\$ 1,158,613
			<i>DSS - Child Death Investigation Training</i>	SC Department of Social Services (DSS)	\$ 93,493
			<i>DSS - Child Abuse and Neglect Investigation Training</i>	SC Department of Social Services (DSS)	\$ 190,618
School of Medicine					
	<i>Basic Science Research</i>				
		<i>Spinale, Francis</i>	<i>VA IPA Traci Jones</i>	WJB Dorn VA Medical Center/VA	\$ 56,334

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	<i>Cell Biology & Anatomy</i>				
		<i>Azhar, Mohamad</i>	<i>Reversal of Aortic Valve Calcification by Chelation Therapy</i>	Elastrin Therapeutics, Inc.	\$ 30,000
	<i>Internal Medicine</i>				
		<i>Weissman, Sharon</i>	<i>South Carolina's Strategies to Maintain HIV Viral Suppression Among State Prison Inmates Released to the Community (CDC-RFA-PS20-2011)</i>	SC Department of Health and Environmental Control (SCDHEC)/CDC/HHS	\$ 1,346,500
	<i>Path, Microbio. & Immunology</i>				
		<i>Kubinak, Jason</i>	<i>B-cell-intrinsic MHCII Signaling is a Diversifying Force of Selection on IgA Repertoires and the Gut Microbiota</i>	National Institute of Allergy and Infectious Diseases (NIAID)/NIH	\$ 2,255,996
		<i>Ray, Swapan</i>	<i>Inhibition of BMP signaling for neuroprotection in spinal cord injury in vitro and in vivo</i>	SC Spinal Cord Injury Research Fund	\$ 67,500
	<i>Pediatrics</i>				
		<i>Rotholz, David</i>	<i>Model for Employment Training Advancement</i>	South Carolina Development Disabilities Council/HHS	\$ 41,204
			<i>IMPACT SC Self-Advocacy Initiatives</i>	SC Development Disabilities Council/HHS	\$ 41,447
	<i>Pharm., Physiology & Neuroscience</i>				
		<i>Reagan, Lawrence</i>	<i>IPA for Jennifer Woodruff</i>	WJB Dorn VA Medical Center/VA	\$ 156,296
			<i>IPA for Dr. Susan Wood</i>	WJB Dorn VA Medical Center/VA	\$ 60,720
University Libraries					
	<i>South Caroliniana Library</i>				
		<i>Duncan, Graham</i>	<i>Bratton Family Papers Digitization Project</i>	Cultural and Heritage Commission of York County	\$ 2,500
University of SC Aiken					
	<i>AK Childrens Center</i>				
		<i>Williams, Lynnette</i>	<i>Emergency Operations Grant ApplicAtion</i>	South Carolina Department of Social Services/HHS	\$ 21,000
	<i>AK Research Support</i>				
		<i>Pirkle, William</i>	<i>Savannah River Environmental Sciences and Engineering Field Station 2021-22</i>	SC Universities Research and Education Foundation (SCUREF)/SRNL/DOE	\$ 449,997
University of SC Beaufort					
	<i>BFT Math & Comp. Science</i>				
		<i>Ahmed, Kishwar</i>	<i>CRII:CNS: Auction Mechanism Design for Energy-Efficient High Performance Computing</i>	National Science Foundation (NSF)	\$ 174,770
	<i>BFT Natural Sciences</i>				

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		<i>Montie, Eric</i>	<i>Assessing the influence of anthropogenic noise on Atlantic common bottlenose dolphin (<i>Tursiops truncatus</i>) vocalizations using long-term passive acoustic monitoring in Charleston Harbor, South Carolina</i>	Southeast Coastal Ocean Observing Regional Association (SECOORA)/NOAA	\$ 1,250
		<i>Pettay, Daniel</i>	<i>Long-Term Environmental Monitoring of the Port Royal Sound Estuary using Citizen Scientists</i>	Port Royal Sound Foundation	\$ 11,442
		<i>Warren, David</i>	<i>Beaufort County - USCB Water Quality Laboratory</i>	Beaufort County	\$ 850,000
<i>University of SC Upstate</i>					
	<i>UPS Achieve</i>				
		<i>Merriweather, Helen</i>	<i>USC Upstate ACHIEVE 2021-22</i>	Upstate Workforce Investment Act/DOL	\$ 465,794