

University of South Carolina — July 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>Gillam, Pamela</i>	<i>Establish and Launch a Collective Strategy to Address Social Determinants of Health</i>	USC Educational Foundation/The Duke Endowment	\$ 596,000
	<i>Exercise Science</i>				
		<i>Dugger, Roddrick</i>	<i>A Positive Deviance Inquiry into the Health Behaviors of Children during Summer</i>	National Institute of Child Health & Human Development (NICHD)/NIH	\$ 79,150
		<i>Herter, Troy</i>	<i>Validation of a Biofeedback Intervention and Objective Biomarkers for Post-Concussion Syndrome - Elizabeth Holt, Doctoral Student PI</i>	The Woodcock Institute	\$ 15,000
		<i>Moore, Robert</i>	<i>IPA Agreement with Dorn VA Medical Center - Robert Davis Moore</i>	WJB Dorn VA Medical Center/VA	\$ 20,174
	<i>Health Prom., Educ. & Behavior</i>				
		<i>Turner-McGrievy, Gabrielle</i>	<i>Targeting important behaviors for weight loss through the use of social gaming and points: The Social Pounds Off Digitally (Social POD) study</i>	National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)/NIH	\$ 2,367,084
	<i>Health Services Policy & Mgmt</i>				
		<i>Andrews, Christina</i>	<i>Medicaid Managed Care Coverage and Utilization Management of Opioid Use Disorder Treatment</i>	National Institute on Drug Abuse (NIDA)/NIH	\$ 2,528,947
<i>College of Arts and Sciences</i>					
	<i>Biological Sciences</i>				
		<i>Quattro, Joseph</i>	<i>Soil Macrofauna Inventory at Congaree National Park With an Emphasis on Synchronous-Flashing Fireflies</i>	National Park Service (NPS)/DOI	\$ 99,505
		<i>Twiss, Jeffery</i>	<i>Stimuli-responsive polymers to modulate peptide efficacy in axon regeneration</i>	Clemson University/SC EPSCoR/IDeA/SC CHE (via UofSC)	\$ 18,000
			<i>Axonal Stress Granules in Spinal Cord Injury</i>	Craig H. Neilsen Foundation	\$ 600,000
		<i>Wessinger, Carolyn</i>	<i>Quantitative genetics and population genomics of repeated complex trait evolution</i>	National Institute of General Medical Sciences (NIGMS)/NIH	\$ 1,840,840
	<i>Chemistry & Biochemistry</i>				
		<i>Richardson, Susan</i>	<i>Collaborative Proposal: Treatment of Cyanotoxins by UV/Chlorine: Optimizing Removal While Developing Strategies to Minimize Disinfection Byproducts and Toxicity</i>	National Science Foundation (NSF)	\$ 150,000
		<i>Wang, Hui</i>	<i>Pathway Switch of Catalytic Hydrogenation Reactions on Sub-5 nm Platinum Nanocatalysts</i>	Petroleum Research Fund (PRF)/American Chemical Society (ACS)	\$ 110,000
	<i>English</i>				
		<i>Chun, Elaine</i>	<i>Doctoral Dissertation Research: Language Ideologies and Activism in Transgender Communities in the U.S South - Archie Crowley</i>	National Science Foundation (NSF)	\$ 9,216
	<i>Geography</i>				

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		Lackstrom, Kirsten	<i>Drought Planning in the Southeast United States: An Assessment of State Approaches, Planning Needs and Gaps, and Opportunities for the Southeast Drought Early Warning System</i>	University Corporation for Atmospheric Research (UCAR)/NOAA	\$ 18,455
	<i>History</i>				
		Schulz, Constance	<i>Papers of the Revolutionary Era Pinckney Statesmen - FINAL NHPRC proposal</i>	National Historical Publications & Records Commission (NHPRC)	\$ 110,000
	<i>Mathematics</i>				
		Lu, Linyuan	<i>RTG: Mathematical Foundation of Data Science at University of South Carolina</i>	National Science Foundation (NSF)	\$ 1,530,973
	<i>McKissick Museum</i>				
		Przybysz, Jane	<i>Pearl Fryar's Topiary Garden</i>	Central Carolina Community Foundation (CCCF)	\$ 37,263
	<i>Psychology</i>				
		Bradshaw, Jessica	<i>Embodied Infant Experience and Neurodevelopmental Disorders</i>	James S. McDonnell Foundation	\$ 250,000
		Smith, Courtnie	<i>South Carolina School Mental Health Internship and Educational Program</i>	SC Research Foundation (SCRF)/Blue Cross Blue Shield of South Carolina Foundation	\$ 382,295
	<i>School of Earth, Ocean & Env.</i>				
		Dragovic, Besim	<i>Collaborative Research: Developing crystal clocks in metamorphic rocks: Using lithium in subduction zone garnets to decipher fluid release timescales</i>	National Science Foundation (NSF)	\$ 314,922
College of Education					
	<i>Child Development Res. Center</i>				
		Googe, Heather	<i>South Carolina Partnerships for Inclusion</i>	SC Department of Education/USDE	\$ 860,997
		McDonald, Melissa	<i>Management & Administration of the Child Care Resource and Referral Network (2021/2022)</i>	SC Department of Social Services (DSS)/HHS	\$ 5,061,675
	<i>Education - Dean's Office</i>				
		Van Buren, Cindy	<i>Supporting Effective Educator Development (SEED) 2020</i>	National Institute for Excellence in Teaching (NIET)/SCPLN/DOE	\$ 10,000
College of Engineering & Comp.					
	<i>Chemical Engineering</i>				
		Mustain, William	<i>Electrodeposition of Low-Cost Cathodes for High Performance EVs</i>	Lordstown EV Corporation	\$ 150,000
	<i>Civil & Environmental Eng.</i>				
		Qian, Yu	<i>Optimizing First Responder's Routes Based on Railroad PTC System and Street Traffic Information</i>	Federal Railroad Administration (FRA)/DOT	\$ 118,000
		Rizos, Dimitris	<i>Satellite Radar Imagery for Ground Hazard Risk Monitoring in Railway Track and Slopes</i>	Federal Railroad Administration (FRA)/DOT	\$ 310,819

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			<i>A Non-Contacting System for Longitudinal Rail Stress Measurements: Field Deployment and Validation</i>	Federal Railroad Administration (FRA)/DOT	\$ 453,208
		Sasanakul, Inthuorn	<i>Cyclic Behaviors of Mine Waste Rocks: Cerro Verde Project</i>	Golder Associates Ltd	\$ 111,715
	<i>Computer Science & Engineering</i>				
		Jamshidi, Pooyan	<i>Collaborative Research: SHF: Medium: Causal Performance Debugging for Highly-Configurable Systems</i>	National Science Foundation (NSF)	\$ 407,048
	<i>Electrical Engineering</i>				
		Ahmad, Iftikhar	<i>High Efficiency UV-LEDs Based on Hybrid 2D/3D Materials.</i>	National Science Foundation (NSF)	\$ 375,501
		Ginn, Herbert	<i>Assessment of Marine Hydrokinetic-based Reliable and Resilient Electrification in Alaska</i>	Alliance for Sustainable Energy, LLC/NREL/DOE	\$ 30,000
	<i>Mechanical Engineering</i>				
		Barazanchy, Darun	<i>Multi-disciplinary topology optimization for induction welding coils</i>	Collins Aerospace	\$ 25,000
		Gray, Joshua	<i>Proof of Concept: Trulite Form Factor 3 Design</i>	Trulite Inc.	\$ 37,555
		Hu, Ming	<i>Deep Learning Accelerated Inverse Design of Lab-Scale Energy Efficient Heterojunctions for Wide-Bandgap Devices</i>	National Science Foundation (NSF)	\$ 375,000
			<i>Development of Robust Cationic Metal-Organic Frameworks for Removing Anionic Radionuclides from Nuclear Waste Streams</i>	Clafin University/SRNS/DOE	\$ 30,000
College of Information & Comm.					
	<i>Journalism & Mass Comm.</i>				
		Hickerson, Andrea	<i>Collaborative Research: DeFake: Deploying a Tool for Robust Deepfake Detection</i>	National Science Foundation (NSF)	\$ 114,234
		McKeever, Brooke	<i>Media Advocacy and the Health Belief Model in the Context of COVID-19: A Mixed Methods Study</i>	Association for Education in Journalism and Mass Communication (AEJMC)	\$ 2,000
College of Pharmacy					
	<i>Pharm - Clin Pharm & Outcomes Sciences</i>				
		Sutton, Scott	<i>The advancement of rural pharmacy education infrastructure in South Carolina through clinical practice training and research: The UofSC College of Pharmacy & Tandem Health rural health pharmacy training model.</i>	SC Center for Rural and Primary Healthcare/SCDHHS	\$ 727,500
College of Social Work					
	<i>Social Work - Dean's Office</i>				
		Levkoff, Sue	<i>South Carolina - Advancing Diversity in Aging Research Undergraduate Program</i>	National Institute on Aging (NIA)/NIH	\$ 1,689,629
Darla Moore School of Business					
	<i>Moore Sch - Div. of Research</i>				

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		Von Nessen, Joseph	SC Sea Grant Consortium - ROI Analysis	SC Sea Grant Consortium/NOAA	\$ 25,000
			Jamie Kimble Foundation for Courage: Economic Impact of Domestic Violence on SC	Jamie Kimble Foundation for Courage	\$ 25,000
	Small Business Dev. Ctr.				
		Abraham, Michele	South Carolina Department of Commerce Award Fiscal Year 2021-2022	SC Department of Commerce (SCDOC)	\$ 550,000
School of Law					
	Children's Law Center				
		Morris, Carolyn	South Carolina Network of Children's Advocacy Centers Contract	SC Network of Children's Advocacy Centers/DOJ	\$ 9,344
	Law - Dean's Office				
		Samuels, Joel	Justice for All in Conflict-Affected Countries: Sierra Leone and Liberia	New York University (NYU)/Netherlands Ministry of Foreign Affairs	\$ 100,000
			Supporting Criminal Justice Reform and Strengthening Anticorruption Efforts in Moldova - Subaward from ABA ROLI	American Bar Association (ABA) - Rule of Law Initiative (ROLI)/DOS	\$ 200,000
School of Medicine					
	Cell Biology & Anatomy				
		Eberth, John	Reducing intravascular stent thrombogenicity by hyaluronic acid coating	PRISMA Health - Midlands	\$ 25,000
	Pediatrics				
		Rotholz, David	Training Programs and Technical Assistance for Staff	SC Department of Disabilities and Special Needs	\$ 162,484
			Provision and Training and Certification for Self-Directed Attendant Care for ID/DD and HASCI Waiver Participants	SC Department of Disabilities and Special Needs	\$ 200,000
			SC Developmental Disability Council Professional Services	SC Developmental Disability Council/ACL/HHS	\$ 29,435
University 101					
	U101 and National Resource Ctr.				
		Young, Dallin	The State of Math Readiness in SC	Francis Marion University/SC CHE	\$ 6,000
University of SC Aiken					
	AK Biology & Geology				
		Mills, Mary	Identification and Characterization of the Culicoides Small Non-coding RNA Transcriptome	United States Department of Agriculture (USDA)	\$ 1,000
University of SC Beaufort					
	BFT Hospitality Management				
		Olivetti, Keri	Vision for the Future: A Collaboration between USC Beaufort and the Town of Hilton Head Island	SCRFF/Town of Hilton Head Island	\$ 186,367
	BFT Natural Sciences				
		Pettay, Daniel	Bacterial source tracking for the Town of Bluffton in the May River, SC.	Town of Bluffton	\$ 50,000