

University of South Carolina - June 2022 New Grant Awards Report					
PI's College	PI's Department	PI Name	Award Title	Sponsoring Agency	Award Total
<b>Arnold School of Public Health</b>					
	ASPH-Web Development	Jenkins, Zachary	ASPH Graduate Placement Program	SC Department of Health and Environmental Control (DHEC)	\$ 500,000
	Center for Community Health Alignment	Smithwick, Julie	Community Health Worker Institute Phase 2	USC Educational Foundation/The DukeEndowment	\$ 590,000
		Young, Michael	PASOs Sisters of Charity - Breaking the Cycle	Sisters of Charity Foundation of South Carolina	\$ 40,000
			CCHA Sisters of Charity - Systems Change	Sisters of Charity Foundation of SC	\$ 30,000
	Epidemiology & Biostatistics	Clay-Gilmour, Alyssa	InterLymph Consortium: interrogating pleiotropy and gene by environment interactions among hematopoietic malignancies - Subcontract with International Agency for Research on Cancer (IARC) in France	International Agency for Research on Cancer (IARC) in France/NIH	\$ 519,885
	Exercise Science	Winkelmann, Zachary	(PI - Kaitlyn Moll) - Implementation of a Focused History Script for the Social Determinants of Health to Facilitate Conversations with Secondary School Patients	National Athletic Trainers' Association (NATA) Research & Education Foundation	\$ 1,000
	Health Prom., Educ. & Behavior	Draper, Carrie	Food is Medicine SC Landscape Assessment and Evaluation Capacity Building	SC Research Foundation (SCRF)/BCBS Foundation of SC	\$ 200,000
		Yang, Xueying	The COVID-19 vaccine efficacy among people living with and without HIV: a real-world data approach	National Institute of Allergy and Infectious Diseases (NIAID)/NIH	\$ 398,262
	PASOS	Martin, Maria	PASOs - Celebration of Countdown to Kindergarten	South Carolina First Steps	\$ 7,936
<b>College of Arts and Sciences</b>					
	Archaeology & Anthropology	Goodyear, Albert	Continuation of Analysis and Curation of the Topper Site Artifacts	SC Research Foundation/Felburn Foundation	\$ 29,000
	Biological Sciences	Patel, Rekha	Investigating RNA- and RNA-binding protein mediated toxicity in iPSC-derived XDP cell culture models to potentially identify shared mechanisms with other dystonia types and neurodegenerative diseases. Dysregulation of eIF2 alpha pathway in drug-induced dystonia (DID) and inherited dystonia 16 (DYT16): testing novel therapeutic interventions.	Massachusetts General Hospital	\$ 110,000
		Richardson, Tammi	(PI - Kristiaan Merritt) - Slocum-Lunz Foundation - The Colorful World of Cryptophyte Microalgae	US Army Medical Research Acquisition Activity (USAMRAA)/DOD	\$ 728,188
		Speiser, Daniel	(PI - Kristiaan Merritt) - Slocum-Lunz Foundation - The Colorful World of Cryptophyte Microalgae	Slocum-Lunz Foundation	\$ 1,152
			(PI - Madison Janakis) - The role of polarized light in visual signaling in the blue crab, Callinectes sapidus	Slocum-Lunz Foundation	\$ 1,170
	Chemistry & Biochemistry	Tang, Chuanbing	2022 ACS Project Seed at UofSC	American Chemical Society (ACS)	\$ 5,100
		Wang, Qian	Synthesis effort to assist the commercialization of glycolipids and glycosphingosines	South Carolina Research Authority (SCRA)	\$ 15,000
		zur Loye, Hans-Conrad	New Fluoride and Oxyfluoride Materials – Targeting Magnetic and Optical Properties	National Science Foundation (NSF)	\$ 710,000
	Geography	Wang, Cuizhen (Susan)	sUAS and 3D Marsh Modeling to Support NASA's New Satellite (SWOT) for Coastal Topography and Marsh Sustainability of South Carolina	College of Charleston/NASA (EPSCoR)	\$ 34,963
	Psychology	Harrison, Sayward	Supporting Substance Use Disorder Services in South Carolina (SSUDS-SC)—An Innovative Training Program for Health Service Psychology Trainees	Health Resources & Services Administration (HRSA)/HHS	\$ 1,350,000
	School of Earth, Ocean & Env.	Benitez-Nelson, Claudia	Davidson Fellowship (Gwen Harper) Spatial and Temporal Variability in Dissolved Organic Matter Sources, Composition and Sinks within the Winyah Bay Watershed	National Oceanic and Atmospheric Administration (NOAA)/DOC	\$ 120,000
			Collaborative Research: Three decades of foraminiferal assemblages in the Santa Barbara Basin provide a link between present and past climates	National Science Foundation (NSF)	\$ 280,509
	Theatre and Dance	Duffy, Peter			

			SC Arts Commission Special Project: Arts Grow SC	South Carolina Arts Commission	\$	10,064
College of Education						
	SC School Improvement Council	Swanson, Lori				
			Social Emotional Learning and Family Engagement Project	Office of State and Federal Accountability - SC Department of Education (SCDE)	\$	335,404
College of Engineering & Comp.						
	Chemical Engineering					
		Monnier, John				
		Moss, Melissa	Evaluate catalysts for EcoC2 Industries, LLC	EcoC2 Industries, LLC	\$	80,000
			A multi-modal AI driven decision support tool for pelvic organ prolapse surgery	South Carolina Research Authority (SCRA)	\$	15,000
	Civil & Environmental Eng.	Ziehl, Paul				
			HiCAM: P1.TPC.IMP Thermoplastic –Integrated Master Schedule & Plan Development	National Aeronautics & Space Administration (NASA)	\$	39,549
	Computer Science & Engineering					
		Huhns, Michael				
		Mohammadizand, Ramtin	Information Competition Simulator	University of Maryland/ARLIS/DOD	\$	199,880
			Design and Implementation of Hardware Accelerator for Gemini Zero-Knowledge Protocol	(Findora Foundation) Findora Development Pte Ltd	\$	85,000
		Srivastava, Biplav	AI-assisted Data-driven team building for individual and institutional success	South Carolina Research Authority (SCRA)	\$	15,000
		Tong, Yan	SOA 2022-23: Computational Algorithms and Speed: An Education Game for High School Students (Andrew Bernhardt)	SC Space Grant Consortium/College of Charleston/NASA	\$	6,000
		Zhang, Qi	RI: Small: Cooperative Planning and Learning via Scalable and Learnable Multi-Agent Commitments	National Science Foundation (NSF)	\$	332,423
	Electrical Engineering					
		Sahin, Alphan	Millimeter-Wave Software-Defined Radio for Aerial Experimentation and Research Platform for Advanced Wireless	PAWR, LLC/Platforms for Advanced Wireless Research - NSF	\$	50,000
		Santi, Enrico	Fault Modeling of Fuel Cell System for Electrical Helicopter STTR	Piasecki Aircraft Corporation/DOD	\$	50,000
	IIT - Engineering	Hikmet, Neset				
			VICEROY DoD Electromagnetic and Cyber Research and Experiential Education (VICEROY DECREE)	Northeastern University/Griffiss Institute/AFRL/DOD	\$	250,000
	Mechanical Engineering					
		Banerjee, Sourav	Virtual Testing and Design of 'MegaStakebot' for Placing Stakes on the Ground to Support Plants with Weak Stem	Agribusiness Center for Research & Entrepreneurship (ACRE) Program - SC Department of Agriculture (SCDA)	\$	125,000
		Bayoumi, Abdel	SAFER Space Anomaly Forensics & Environment Resolution - SCDOC	South Carolina Department of Commerce (SCDOC)	\$	400,000
		De Backer, Wout	Implementing Predictive Maintenance:	Carnegie Mellon University/US Army/DOD	\$	1,167,310
			Toray - Tape Characterization	Toray PMC (Performance Material Corporation)	\$	6,351
College of Nursing						
	Nursing					
		Felder, Tisha	SHARE Cancer Support Contract: Research and data analysis to understand the experience and unmet needs of Black women diagnosed with Triple Negative Breast Cancer (TNBC)	SHARE Cancer Support	\$	32,000
		Jones, Kathrine		Health Resources & Services Administration (HRSA)/HHS	\$	49,992
			University of South Carolina Nurse Faculty Loan Program (NFLP) 2022			
College of Social Work						
	Child and Family Studies, Center for					
		Baughman, Amber				
			COSA Consultation Project	Beaufort County Human Services Department	\$	8,600
Darla Moore School of Business						
	Moore Sch - Div. of Research					
		Von Nessen, Joseph	South Carolina Department of Commerce: Economic Impact Analysis	SC Department of Commerce	\$	36,500
	Small Business Dev. Ctr.					
		Abraham, Michele	South Carolina Department of Commerce Award Fiscal Year 2022-2023	SC Department of Commerce (SCDOC)	\$	1,000,000
Enrollment Management						
	TRIO Programs					
		Counts, Althea				
			2022 Upward Bound Program	US Department of Education (USDE)	\$	2,906,915
Kozer Center						

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		Magradey, Karen			
			Sapta Svara: An Exhibition of Indian Folk Art by Jugnu Vema	South Carolina Arts Commission	\$ 2,500
Research, Vice President for					
	ANIMAL RESEARCH				
		Barlow, Shayne			
			Reversal of Myocardial Infarction by Localized Stimulation (MicroVide)	MicroVide	\$ 6,250
School of Law					
	Children's Law Center				
		Black, Sheldandra			
			SIM Training: Short-Term Contract to Develop Capacity	SC Department of Social Services (DSS)	\$ 41,274
		Dhunjishah, Linda			
			Court Administration Basic Grant	South Carolina Court Administration/HHS	\$ 155,000
			Court Administration Training Grant	South Carolina Court Administration/HHS	\$ 155,000
	Law - Dean's Office				
		Martin, Lisa			
			Domestic Violence and Access to Civil Justice in South Carolina	SC Bar Foundation	\$ 25,000
School of Medicine					
	Internal Medicine				
		Yates-Wilson, Beverly			
			American Heart Association Project	American Heart Association (AHA)	\$ 13,000
	MDC Ctr Disability Resources				
		Rotholz, David			
			South Carolina Project SEARCH	Office of Special Education Services (OSES)/SCDE	\$ 105,106
			South Carolina Youth in Transition Training Program	SC Family Connections/HHS	\$ 11,667
	Pharm., Physiology & Neuroscience				
		Burzynski, Hannah			
			Investigating the vagal gut-brain circuit regulating hippocampal neurochemistry and neuroinflammation	National Institute of Diabetes & Digestive & Kidney Diseases (NIDDK)/NIH	\$ 75,238
		Wilson, Marlene			
			VA Contract: USC Research Specialist Services	Department of Veterans Affairs (VA)	\$ 225,000
University 101					
	U101 and National Resource Ctr.				
		Hartman, Catherine			
			Sense of Belonging and Transitions: Exploring Connections between Transfer Students and Their Institutions	NASPA Foundation	\$ 4,975
University Libraries					
	Univ Libraries - Dean's Office				
		Britton, Jeanne			
			The Digital Piranesi: Collaborative Digital Art History	SC Research Foundation (SCRF)/Samuel H. Kress Foundation	\$ 29,800
University of SC Aiken					
	AK Biology & Geology				
		Hancock, Charles Nathan			
			Strategies for rescue of nitrogen deficient soybeans	SC Soybean Board	\$ 3,132
		Shervette, Virginia			
			Data-Poor Caribbean Reef Fishes: Addressing Critical Gaps in Yellowtail Snapper Age, Growth, and Reproduction for Puerto Rico and St. Thomas, USVI	National Oceanic and Atmospheric Administration (NOAA)/DOC	\$ 156,053
	AK Childrens Center				
		Williams, Lynnette			
			Stabilization Grant 2	SC Department of Social Services/HHS	\$ 175,000
University of SC Beaufort					
	BFT Libraries				
		Smith, Emily			
			SCALE Affordable Learning: Promoting and Creating OER Textbooks	Partnership Among South Carolina Academic Libraries (PASCAL)/SC CHE	\$ 4,809
	BFT Natural Sciences				
		Pettay, Daniel			
			Establishing a Continuous Environmental Monitoring Station for the Chechessee River in the Port Royal Sound Estuary	Community Foundation of the Lowcountry	\$ 75,000
		Warren, David			
			Beaufort County - USCB Water Quality Laboratory	Beaufort County	\$ 850,000
University of SC Lancaster					
	LAN PALMETTO COLLEGE				
		Ammons, Robert			
			Lancaster Promise Neighborhood	Lancaster County Partners for Youth/USDE	\$ 106,800
University of SC Upstate					
	UPS Nursing				
		Kennedy, Toshua			
			USC Upstate Nurse Faculty Loan Program 2022-23	Health Resources & Services Administration (HRSA)/HHS	\$ 123,829