University of South Carolina — October 2024 New Grant Awards Report					
Pl's College	PI's Department	PI Name	Award Title	Sponsoring Agency	Award Total
Arnold School of Public					
	Applied Research & Evaluation ((CARE)		CC Danadas at at Dublia	
		Workman, Lauren	SC Title V Maternal and Child Health Needs Assessment	SC Department of Public Health (SCDPH)/HRSA	72,751
	Environmental Health Sciences		Dhana III wasta wata u tantin s	Bouley Heire with AUG	43,750
		Langan, Laura	Phase III wastewater testing	Baylor University/HHS	43,750
		Sabo-Attwood, Tara	Harmonizing Wastewater Generated Drug Consumption Trends with Epidemiological Indicators in NDEWS	University of Florida/NIDA/NIH	13,495
	Epidemiology & Biostatistics				
	Epidemiology & Biostatistics	Brown, Monique	Optimizing PrEP uptake for African American women in the South by empowering women to make informed HIV prevention and sexual health choices	University of Georgia Research Foundation (UGRF), Inc./NIMH/NIH	105,420
	Health Prom., Educ. & Behavior				
	nealth From., Educ. & Behavior	Kim, Minji	Evaluating culturally appropriate anti-smoking messages for high-risk Asian ethnic subgroups	National Institute on Minority Health and Health (NIMH)/NIH	409,750
		Larson, Leila	Meta-analysis of the effects of double fortified salt	lodine Global Network (IGN)	10,000
		Thrasher, James	Building Stochastic Actor-Oriented Models to investigate social network influences on youth nicotine product use transitions and to simulate different intervention effects across contexts	National Cancer Institute (NCI)/NIH	2,769,942
		Yang, Xueying	Sex Differences of Cardiovascular Diseases among People with HIV: utilization of data from All of Us research program	Augusta University/NHLBI/NIH	20,000
	Health Services Policy & Mgmt				
	Trouble Colvidor Carloy & Mgmic	Natafgi, Nabil	PRIDE-CARES Center: Patient-Responsive Initiatives for Diverse Engagement - LGBTQ+ Community Action in Research to Eliminate Substance Use Disorder Center	National Institute on Drug Abuse (NIDA)/NIH	2,507,004
				Facilities Indonesia Maria I Oc. 1	
		Ostermann, Jan	Confidential Social Network Referrals for HIV Testing (CONSORT)	Fogarty International Center (FIC)/NIH	814,931
College of Arts and Scie	ences				
25290 517 11.0 4.14 0010	Anthropology				
	,	Schreiner, Nina	Documenting Collections from 38KE12 for Consultation and Repatriation	National Park Service (NPS)/DOI	96,903
	Archaeology & Anthropology				

University	y of South Car	olina — October 2024 New Grant Awards Re	port	
	King, Adam	NPS Save America's Treasures: SCIAA Collections	Institute of Museum and Library Services (IMLS)	629,001
Llieton				
History	Donaldson, Bobby	African American Civil Rights Network Programmatic Initiatives for the Center for Civil Rights History and Research	National Park Service (NPS)/DOI	3,362,100
	Matthews, Marty	THE PAPERS OF WILLIAM SHORT: A DIGITAL SELECTIVE DOCUMENTARY EDITION 2024-2025	The National Historical Publications and Records Commission (NHPRC)	125,000
Mathematics				
	Ju, Lili	DyGenAI: Dynamic Generative Artificial Intelligence for Prediction and Control of High-Dimensional Nonlinear Complex Systems	US Department of Energy (DOE)	450,000
Physics & Astronomy				
Thysics & Astronomy	Lopez Rodriguez, Enriq	Baselines: Revealing the central extended emision of Circinus with interferometric mode	Space Telescope Science Institute (STScI)/NASA	139,980
		AGN and their outflows: probing fragmentation and survival of polycyclic aromatic hydrocarbons	Space Telescope Science Institute (STScI)/NASA	93,238
Psychology				
T Sychology	Harrison, Sayward	Integrated Care for Recovery (I-CaRe) Paraprofessional Training for Supporting Youth and Families affected by the Opioid Crisis	Health Resources and Services Administration (HRSA)	599,828
	Mactutus, Charles	Executive Function Impairments in HAND and Aging	National Institute on Aging (NIA)/NIH	2,871,255
	Wilson-King, Dawn	Are Interventions Supporting Physical ACtivity modified by the Environment (InSPACE)?	Seattle Children's Hospital d/b/a Seattle Children's Research Institute/NIH	8,940
School of Earth, Ocean & En	,			
School of Earth, Ocean & Em	Fuente, David	Applied Implementation Research for Clean Cooking in Cambodia (AIR-C3): equity, exposure,	Emory University/NIEHS/NIH	25,832
	Hardy, Dean	Oyster Reef Restoration on Sapelo Island for Coastal Hazard Protection and Multiple Benefits	University of Georgia Research Foundation, Inc./NOAA/DOC	30,883
	Meyer-Gutbrod, Erin	Collaborative Proposal, Real-time Acoustic Detections of right whales in the Southeast US to mitigate vessel strikes	USC Educational Foundation/Maine Community Foundation	65,715
	Voulgaris, George	Disaster Relief Supplemental Act (DRSA) - Repair and Replacement of Observing Assets, Real Property, and Equipment in the Gulf of Mexico, Southeast, and Caribbean Regions Non-competitive Request for Applications (RFA) - NOAA-NOS-IOOS-2023-2008259 Disaster	Southeast Coastal Ocean Observing Research Association (SECOORA)/NOAA	137,596

	University	of South Ca	arolina — October 2024 New Grant Awards Re	port	
		Wilson, Alicia	RII Track-2 FEC: Risks, Impacts, and Strategies for Coastal Communities (RISCC): Advancing Convergent Science to Support Climate Change Adaptation and Community Resilience	College of Charleston/NSF	398,419
College of Education					
	Educational & Developmental S	cience			
		Wolfe, Katie	Family Training and Support Service: Development and Pilot	SC Department of Disabilities and Special Needs (DDSN)	606,726
	Research, Eval., & Measuremer				
	Research, Eval., & Measuremen	D'Amico, Leigh	Countdown to Kindergarten Multilingual Learners Project	South Carolina First Steps to School Readiness	10,800
		Lewis, Ashlee	South Carolina Arts Assessment Program (FY25)	South Carolina Department of Education (SCDE)	84,000
	Teacher Education				
		Cook, Daniella	Sustaining Culturally Relevant Teaching: A Survey of Educator Use and Choice of Primary Sources	TPS Eastern Region/Waynesburg University	2,500
College of Nursing					
	Biobehavioral Health & Nursing	Adams, Swann	A Systems Theory Approach to the Study of Colon and Lung Cancer Health Disparities using Novel Data Linkages	National Cancer Institute (NCI)/NIH	1,686,315
College of Pharmacy					
	Drug Discovery & Biomed Sci.			1 5 110 0110 0111	074 007
		Xu, Peisheng	Develop a novel strategy to deliver N-acetylcysteine for AD treatment	AcePre, LLC./NIA/NIH	274,927
	Pharm - Clin Pharm & Outcome	s Sciences			
	Tham - Gill Tham & Gucome	Hastings, Tessa	(PI: Abby Davies) Improving Pharmacy Based Contraceptive Prescribing using an Implementation Science Approach	American Foundation for Pharmaceutical Education (AFPE)	20,000
	Pharmacy - Dean's Office			US Small Business	
		Cutler, Stephen	USC FAST Center	Administration (SBA)	196,112
College of Social Work					
Silogo of Goolai Work	Social Work - Dean's Office				
		Levkoff, Sue	Hevolution Foundation Supplemental Funding	American Federation for Aging Research (AFAR)	10,000
		Reese, Lenora	First 5 SC Interactive Training Development	SC First Steps	29,118

Univers	ity of South Car	olina — October 2024 New Grant Awards Re	port	
	Soto-Ramirez, Nelis	Relations between Teachers' Professional Development in Migrant and Seasonal Head Start Programs and Children's Cognitive and Academic Outcomes, Parent Engagement, and Teachers' Mental Health	ACF/OPRE Office of Discretionary Grant/HHS	99,998
Darla Moore School of Business				
Moore Sch - Div. of Resea	arch			
	Powers, Eric	DMSB - Quantathon	SC Quantum	24,304
	Von Nessen, Joseph	SCRA: Economic Impact Analysis - FY24	SC Research Authority (SCRA)	10,000
		NIWC Atlantic: Economic Impact Analysis (FY24)	NIWC Atlantic/US Navy/DOD	242,000
Division of Student Affairs				
Substance Abuse and Pre	evention			
	Hourigan, Aimee	Collegiate Community Recovery Programs 2024-2025	SC Department of Alcohol & Other Drug Abuse Services (SC DAODAS)	180,000
Joseph F. Rice School of Law				
Law - Dean's Office				
Euw Bours office	Samuels, Joel	Advancing Justice for Workers (AJW) in Zambia and Malawi	US Department of State (DOS)	900,000
Koger Center				
Koger Center				
3	Terracio, Nathan	Arts for All SC: Koger Center Expanded Access Restrooms	SC Arts Commission	50,000
		Richland County Hospitality Grant	SC Research Foundation (SCRF)/Richland County Administration	4,833
Molinaroli College of Engineering & Computing Chemical Engineering				
Chemical Engineering	White, Ralph	A Coupled Experimental and Mechanistic Modeling Approach to Virtual Prototyping Lithium-Sulfur Batteries	US Department of Energy (DOE)	1,580,020
Civil 9 Faving magnetal Fac	-			
Civil & Environmental Eng	g.	Intensified Dynamic Non-Equilibrium Reactions by Pulsed Microwave Heating for	West Virginia University	
	Gaillard, Jay	Efficient Chemical Processing	(WVU)/DOE	184,617
	Imran, Jasim	An Antifragile Future for Naval Installations and Coastal Host Communities	Office of Naval Research (ONR)/DOD	1,625,000
	Qian, Yu	Track Lateral Stability Assessment under Climate Change and Extreme Weather Conditions	Federal Railroad Administration/DOT	155,000
		UAV-Imagery Based Track Component Health Condition Inspection	National Academies of Sciences (NAS)/FRA/DOT	100,000

	Univers ity	of South Car	olina — October 2024 New Grant Awards Re	port	
		Rizos, Dimitris	Qualification of a Mobile, Non-Contacting System for RNT and Longitudinal Rail Stress Measurements	Federal Railroad Adminstration/DOT	398,213
		Sasanakul, Inthuorn	(PI: Sufal Biswas) Geosynthetic Institute Fellowship	Geosynthetic Institute	5,000
		Schmitz, Nicole Berge	Development of Database and Analytic Tools for Identification of Causal Factors Associated with Fatalities for Solid Waste Collection and Post Collection Processes	Environmental Research and Education Foundation (EREF)	198,966
	Electrical Engineering				
	Electrical Engineering	Khan, Asif	A New Nitride Era (ANNE): AIN vertical conduction pn-diodes	Georgia Tech/DARPA/DOI	106,480
		raidii, ron	An integrated microsystem-on-a-chip to enable ultra-fast ultra-wide bandgap (UWBG) power electronics	University of Wisconsin/ARPA-E DOE	199,745
	Mechanical Engineering			1/2	
		Bayoumi, Abdel	Advanced Electric Rim Drive for Ultra-Heavy Vertical Lift (UHVL)	KRyanCreative, LLC/SC EPSCoR/NSF	2,300
		Farouk, Tanvir	Fundamental Understanding of Self-Organizing Pattern Formation During Plasma- Liquid Interface Interaction - Multiphysics Simulations and Experiments	Department of Energy (DOE)	784,049
		Huang, Kevin	Membrane-Based Catalytic CO2 Hydrogenation Reactors	Save Mother Earth LLC	50,000
		Yu, Lingyu	laser induced wideband ultrasonic guided waves modeling and machine learning driven interpretation	US Department of Energy (DOE)	1,000,000
School of Medicine					
	Basic Science Research				
		McCarthy, Cameron	The Janus face of O-GlcNAcylation in female aortic compliance and stiffening	Board of Regents of the University System of Georgia on behalf of Augusta University/NHLBI/NIH	20,000
			Cerebrovascular O-GicNAcylation Worsens Diabetes-associated Neurovascular Injury and Recovery Post-stroke	NHLBI/NIH	511,702
	O III Die Ie we 0 American				
	Cell Biology & Anatomy		Develop natural compound emodin as a novel therapy for calcific aortic valve		
		Azhar, Mohamad	disease	AcePre, LLC/NHLBI/NIH	178,800
	Internal Medicine				-
	milemai Medicilie	Al-hasan, Majdi	Housing Opportunities for Persons With AIDS (HOPWA)	City of Columbia/HUD	530,480
	MDC Ctr Disability Resources				
		Rotholz, David	Team for Early Childhood Solutions Data System Management and Compliance Indicator Analysis	SC Department of Health and Human Services (SCDHHS)	445,000

	University	of South Ca	rolina — October 2024 New Grant Awards Re	port	
			2024 SC Assistive Technology Leadership Conference	SC Developmental Disabilities Council (SCDDC)/HHS	5,000
	Discourse Discourse & No.	•			
	Pharm., Physiology & Neurosc	cience	Antioxidant supplementation as a therapeutic intervention for chronic stress-induced	MitoQ Ltd./Antipodean	
		Hollis, Fiona	pathologies	Pharmaceuticals, Inc.	195,876
		Pocivavsek, Ana	Pilot Project: Interplay between prenatal sleep fragmentation and kynurenine pathway metabolism in utero (Pilot under 10012968)	University of Maryland/NIH	25,000
		r ocivavsch, Ana	patimaly metabolism in atoro (i not under 10012500)	Chiverony of Maryland/Mil	20,000
University of SC Aiken					
	AK School of Education				
		Beck, Judy	Project CREATE 2024-25	SC Department of Education (SCDE)	227,845
University of SC Beaufo	ort				
Offiversity of SC Beauti	BFT Natural Sciences				
	Bi i itatara colonoco				
		Madden, Kathryn	USCB's Life Science Education Living Laboratory - (Grant Making Partners Fund - Assoc. with account 10014304)	SC Research Foundation(SCRF)/Hilton Head Island Foundation Endowment Fund/Community Foundation of the Lowcountry (CFL)	
University of SC Lancas					
	LAN PALMETTO COLLEGE				
		Catledge, Courtney	University of South Carolina Lancaster Updated Simulation Equipment	Health Resources & Services Administration (HRSA)/HHS	110,000
			USC Lancaster Center for Healthcare Workforce Development	Health Resources & Services Administration (HRSA)/HHS	2,800,00
	1				
University of SC Salker					
	SA PALMETTO COLLEGE	Beach, Tracy	USC Salk DRIVES: University of South Carolina Salkehatchie Driving Rural Innovators into Visions of Employment in STEM	Department of Energy (DOE)	1,091,809
				-,	,,50
University of SC Upstat	te				
	UPS Achieve				
		Marshall, Elaine	ACHIEVE - Professional Development Supplement	Upstate Workforce Board/DOL	12,775
	UPS College of Education				
	Or 3 College of Education	Hardin, Brooke	Center of Excellence for Reading and Engagement for All Learners (REAL)	SC Commission on Higher Education	141,405
	UPS Human Perform and Hlth				

University of South Carolina — October 2024 New Grant Awards Report					
	Pae, Holly	Project CREATE 2024-25	SC Department of Education (SCDE)	44,389	
UPS Nursin	g Dunlap, Shirleatha	Nursing Equipment and Technology Initiative	HRSA/HHS	1,331,000	
UPS Psycho	ology Gray, Jennifer	Miranda Graves: Community-Based Perceptions of People Experiencing Homelessness: Contributions of Race and Gender on Bias and Discrimination	Psi Chi	1,500	