

**KENT STATE UNIVERSITY**  
**Research and Sponsored Programs**  
**Doug Delahanty, Interim Vice President for Research**

**EXTRAMURAL FUNDING REPORT**

**Funds awarded for  
 July- September 2021  
 \$17,779,917**

**Total funding to date  
 FY2021 - 2022  
 \$17,779,917**

**Research**

Veronica Antochevez Dexheimer Strickland, Physics National Science Foundation <i>CAREER: Dense Phases in Neutron Stars</i>	Continuation 07/01/18 - 06/30/23	\$85,000
Sara Bayramzadeh, Architecture and Environmental Design Mary Anthony, Nursing Douglas Delahanty, Psychology Agency for Healthcare Research and Quality <i>Towards a Model of Safety and Care for Trauma Room Design</i>	Continuation 09/30/21 - 09/29/22	\$608,258
Kathleen Campana, Library and Information Science Michelle Baldini, Library and Information Science Elaine Thomas, Nursing Institute of Museum and Library Services <i>Project SHIELD: Supporting Healthy Infant Early Learning and Development</i>	08/01/21 - 07/31/22	\$99,919
Kathleen Campana, Library and Information Science Institute of Museum and Library Services <i>Project Voice (Value-sensitive design of Outcomes Informing Community Engagement) for Libraries - Supplement</i>	Supplement 09/17/21 - 09/19/23	\$55,605
L.C. Chien, Advanced Materials Liquid Crystal Institute/Chemical Physics Industry Partner <i>Smart Liquid Crystal Windows Stage III</i>	Continuation 07/01/21 - 06/30/22	\$117,391
Lique Coolen, Brain Health Resesarch Institute/Biological Sciences USA Medical Research Acquisition Activity <i>Dopamine D3 Agonists: Developing Treatments for Sexual Dysfunction in Chronic Spinal Cord-Injured Male Rats</i>	08/15/21 - 08/14/24	\$760,000
David Costello, Biological Sciences National Science Foundation <i>CAREER: Beyond N and P: How trace metal limitation influences stream ecosystem function - Research Experience for Post-Baccalaureate Students (REPS) in the Biological Sciences</i>	09/01/20 - 08/31/25	\$56,808
Metin Eren, Anthropology Michelle Bebber, Anthropology Michael Fisch, College of Aeronautics and Engineering National Science Foundation <i>Collaborative Research: Functional Analysis of Lithic Artifacts</i>	09/01/21 - 08/31/25	\$80,145

Pamela Ferguson, Research and Evaluation Bureau Institute for Multi-Sensory Education <i>Three-project IMSE Program Evaluation</i>		08/01/21 - 07/31/22	\$35,500
Susan Fisk, Sociology National Science Foundation <i>Collaborative Research: BPC-AE: STARS: Catalyzing Action-Oriented Academic Communities for Broadening Participation in Computing</i>		10/01/21 - 09/30/24	\$205,986
Gregory Gibson, Sociology Richard Adams, Sociology Subcontract Indiana Department of Health /Centers for Disease Control and Prevention <i>Indiana PRAMS FY22</i>		07/01/21 - 06/30/22	\$169,570
Peter Gordon, Mathematics United States-Israel Binational Science Foundation <i>Studies in Deflagration-to-Detonation Transition in Unconfined Systems</i>		10/01/21 - 09/30/25	\$15,350
Torsten Hegmann, Advanced Materials Liquid Crystals Institute Elda Hegmann, Advanced Materials Liquid Crystal Institute/Biological Sciences National Science Foundation <i>PFI-RP: A Development of zero-power optical sensor platform for the detection of toxic gases</i>		07/15/21 - 06/30/24	\$550,000
Peter Jeffy, University College Academic Diversity Success U.S. Department of Education <i>Kent State University McNair Scholars Program</i>	Continuation	10/01/21 - 09/30/22	\$272,364
Ruoming Jin, Computer Science National Science Foundation <i>EAGER: Collaborative Research: On the Theoretical Foundation of Recommendation System Evaluation</i>		09/15/21 - 08/31/22	\$79,999
Deric Kenne, Health Policy Management Ruoming Jin, Computer Science Substance Abuse and Mental Health Services Administration <i>Northeast Ohio Tri-County Prevention Infrastructure (TCPI)</i>	Continuation	09/30/21 - 09/29/22	\$300,000
Kwangtaek Kim, Computer Science Robert Clements, Biological Sciences Jeremy Jarzembak, Nursing National Science Foundation <i>Bimodal Haptic-Mixed Reality (HMR) Needle Insertion Simulation for Hand-Eye Skills</i>		09/15/21 - 08/31/24	\$517,000
Lauren Kinsman-Costello, Biological Sciences Subaward The Ohio State University /Ohio Department of Natural Resources <i>H2Ohio Wetland Monitoring Program</i>	Continuation	07/01/21 - 12/31/22	\$187,679
Lauren Kinsman-Costello, Biological Sciences U.S. Department of Energy <i>Rewriting the Redox Paradigm: Dynamic Hydrology Shapes Nutrient and Element Transformations in a Great Lakes Coastal Estuary</i>		09/01/21 - 08/31/22	\$297,959

Bethany Lanese, Health Policy Management Stark County Mental Health and Recovery Services Board <i>Evaluation of the StarkMHAR Continuous Improvement Project in Behavioral Health</i>		07/01/21 - 06/30/23	\$136,033
Oleg Lavrentovich, Advanced Materials Liquid Crystal Institute/Physics Sergij Shiyanovskii, Advanced Materials Liquid Crystals Institute National Science Foundation <i>Electro-optical phase retarders based on newly discovered nematics</i>		09/15/21 - 08/31/24	\$438,605
Oleg Lavrentovich, Advanced Materials Liquid Crystal Institute/Physics Sergij Shiyanovskii, Advanced Materials Liquid Crystals Institute CareGlance Srl <i>Fast switching electrooptical cells</i>		09/01/21 - 05/31/22	\$92,974
Mykal Leslie, Lifespan Development and Educational Sciences Subaward Virginia Commonwealth University /Administration for Community Living <i>Rehabilitation Research and Training Center (RRTC) on Employment of Transition-Age Youth with Disabilities</i>	Continuation	09/30/21 - 09/29/22	\$149,798
Mykal Leslie, Lifespan Development and Educational Sciences Subaward Virginia Commonwealth University /Administration for Community Living <i>Rehabilitation Research and Training Center (RRTC) on Employment of People with Intellectual and Developmental Disabilities</i>	Continuation	09/30/21 - 09/29/22	\$183,696
Jian Li, Foundations, Leadership and Administration Subaward University of Kentucky Research Foundation /National Multiple Sclerosis Society <i>A Two-Phased Examination of Labor Force Participation, Employment Concerns, and Workplace Discrimination among Latinas/os and African Americans with Multiple Sclerosis</i>		12/01/20 - 03/31/22	\$50,000
Jun Li, Mathematics National Science Foundation <i>Offline and Online Change-Point Analysis for Large-Scale Time Series Data</i>	Continuation	09/01/21 - 08/31/22	\$32,967
Rui Liu, College of Aeronautics and Engineering Subcontract Immobilyes Inc. /U.S. Air Force Research Laboratory <i>Intelligent Air Laser System for Mission Support w/ Multi-UAVs Equipped with Laser Beams</i>		04/26/21 - 07/23/21	\$20,000
Hanbin Mao, Chemistry National Cancer Institute <i>Specific Recognition of G-quadruplexes</i>	Continuation	09/01/21 - 08/31/22	\$319,224
Hossein Mirinejad, College of Aeronautics and Engineering Behrouz Kharabian, College of Aeronautics and Engineering Subaward University of Akron /National Science Foundation <i>Type II: The University of Akron I-Corps Site: Slide Chiller</i>		06/04/21 - 12/31/21	\$2,500
Xiaozhen Mou, Biological Sciences Subaward The Ohio State University /Centers for Disease Control and Prevention <i>State of Ohio wastewater SARS-CoV-2 surveillance subaward</i>		07/01/21 - 06/30/22	\$272,935

Xiaozhen Mou, Biological Sciences Melissa Zullo, Biostatistics/Epidemiology/Environmental Health Subaward The Ohio State University /Centers for Disease Control and Prevention <i>State of Ohio wastewater SARS-CoV-2 surveillance subaward</i>	07/01/21 - 06/30/22	\$354,308
Bridget Mulvey, Teaching, Learning and Curriculum Studies David Singer, Geology Martha Holden Jennings Foundation <i>Science for Community Change</i>	08/01/21 - 07/31/22	\$24,108
Shannon Navy, Teaching, Learning and Curriculum Studies Lisa Borgerding, Teaching, Learning and Curriculum Studies National Science Foundation <i>Resources Accessed to Cultivate and Enhance Resilience (RACER)</i>	10/01/21 - 09/30/25	\$1,000,000
Joseph Ortiz, Geology Herbert W. Hoover Foundation <i>Automating the Detection of Harmful Algal Blooms using Google Earth Engine and Google Cloud Platform</i>	09/01/21 - 08/31/22	\$100,000
Daniel Palmer, Trumbull Campus Kristenne Robison, Salem Campus Raymond J Wean Foundation <i>Pathways to Postsecondary Education Success for Justice-involved Learners: A Partnership with Kent State University and Sinclair Community College</i>	06/01/21 - 05/31/22	\$55,000
Daniel Palmer, Trumbull Campus Kristenne Robison, Salem Campus Youngstown Area Jewish Federation <i>Pathways to Postsecondary Education Success for Justice-involved Learners: A Partnership with Kent State University and Sinclair Community College</i>	08/01/21 - 07/31/22	\$2,500
Lynette Phillips, Epidemiology/Biostatistics The Cleveland Foundation <i>Graphic Medicine Comic to Increase HPV Vaccine Uptake in Cleveland-area High School Students</i>	08/01/21 - 07/31/22	\$23,332
Noel-Marie Plonski, Biological Sciences National Institute of Mental Health <i>ADAR-editing landscape dysregulation in neuropsychiatric disorders</i>	Continuation 09/01/21 - 08/31/22	\$30,346
Lydia Rose, East Liverpool Subaward National Harm Reduction Coalition /The Robert Wood Johnson Foundation <i>Interdisciplinary Research Leaders Cohort Three – Social and Economic Determinants in Rural America – Ohio River Valley</i>	10/01/20 - 09/30/21	\$25,000
Thorsten-Lars Schmidt, Physics National Institute of General Medical Sciences <i>Small and Mechanosensitive Membrane Proteins Studied with DNA-based Tools</i>	09/01/21 - 06/30/22	\$368,816
Kuldeep Singh, Geology American Chemical Society <i>How the Surface Roughness Contributes to Wettability and its Alteration of Geologic Minerals</i>	09/01/21 - 08/31/23	\$110,000

Gregory Smith, Lifespan Development and Educational Sciences National Institute on Aging <i>Social Intelligence training for custodial grandmothers and their adolescent grandchildren</i>	Continuation	06/01/21 - 05/31/22	\$551,641
Rafaela Takeshita, Anthropology National Science Foundation <i>Middle childhood growth and development in the evolution of human life history</i>		08/15/21 - 07/31/24	\$300,000
Clarissa Thompson, Psychology Karin Coifman, Psychology Jennifer Taber, Psychology U.S. Department of Education <i>An Educational Intervention to Combat Whole Number Bias in Risk Perceptions in an Ambiguous Health Context: COVID-19</i>	Continuation	09/01/21 - 08/31/22	\$27,628
Darlene Unger, Lifespan Development and Educational Sciences Administration for Community Living <i>A Professional Development and Case Management (PDCM) Model for Seamless Transition Planning: Improving Postschool Outcomes</i>	Continuation	09/01/21 - 08/31/22	\$475,000
Jeremy Williams, Geology Institute for Citizens and Scholars <i>2021 Career Enhancement Fellowship for Junior Faculty: Understanding Trade and Economies of Pre-Historic Americans in the Midwest through Geochemical Techniques</i>		06/01/21 - 12/31/21	\$15,000

## **Instruction**

Sonia Alemagno, College of Public Health Jennifer Miller, College of Public Health Ohio Department of Higher Education <i>Choose Ohio First Scholarship Program: Scholarships in STEMM at Kent State University in Public Health</i>	Continuation	07/01/21 - 06/30/22	\$28,000
Salma Benhaida, Office of Global Education Subaward International Research and Exchanges Board /U.S. Department of State <i>Global Undergraduate Exchange Program in Pakistan - Fall 2021 students</i>	Continuation	08/01/21 - 12/31/21	\$40,887
Salma Benhaida, Office of Global Education Subaward World Learning /U.S. Department of State <i>2021 Fall Global Undergraduate Exchange Program (Global UGRAD)</i>		08/15/21 - 12/31/21	\$31,268
Ching-I Chen, Lifespan Development and Educational Sciences U.S. Department of Education <i>Interdisciplinary Preparation in Early Educational Professions (Project INPREP)</i>	Continuation	11/01/21 - 10/31/22	\$249,582
Sanna Harjusola-Webb, Lifespan Development and Educational Sciences U.S. Department of Education <i>Project NEXT (Natural Environments x Teams)</i>	Continuation	10/01/21 - 09/30/22	\$250,000

Aloysius Kasturiarachi, Stark Campus Christine Kauth, Stark Campus Gregory A Smith, Stark Campus Ohio Department of Higher Education <i>Choose Ohio First Scholarship Program: Scholarships in STEMM at Kent State University - Stark</i>	Continuation	07/01/21 - 06/30/22	\$100,800
Edgar Kooijman, Biological Sciences Ohio Department of Higher Education <i>Choose Ohio First Scholarship Program: Career Pathways in STEM-Life Sciences: Advancing the human condition with technology</i>	Continuation	07/01/21 - 06/30/22	\$165,000
Tracey Motter, Nursing Christine Kauth, Stark Campus Ohio Department of Higher Education <i>Choose Ohio First Scholarship Program: Linked-In to Practice BSN Program</i>	Continuation	07/01/21 - 06/30/22	\$111,000
Davison Mupinga, Teaching, Learning and Curriculum Studies Subaward Ohio Department of Education /U.S. Department of Education <i>CTE Teacher Preparation and Retention FY22</i>		07/01/21 - 06/30/22	\$100,000
Cynthia Osborn, Lifespan Development and Educational Sciences Kelly Cichy, Lifespan Development and Educational Sciences Joel Hughes, Psychology William Lechner, Psychology Cassandra Storlie, Lifespan Development and Educational Sciences Health Resources and Services Administration <i>Behavioral Health Workforce Education and Training Program</i>		09/01/21 - 08/31/22	\$562,315
Evgenia Soprunova, Mathematics Darci Kracht, Mathematics Andrew Tonge, Mathematics Ohio Department of Higher Education <i>Choose Ohio First Scholarship Program: Careers in Mathematics and Computer Science</i>	Continuation	07/01/21 - 06/30/22	\$580,350
Michael Tubergen, Chemistry Robin Selinger, Advanced Materials Liquid Crystal Institute/Physics Ohio Department of Higher Education <i>Choose Ohio First Scholarship Program: Workforce Training for Ohio's STEM Industries</i>	Continuation	07/01/21 - 06/30/22	\$71,500

### **Other Sponsored Activity**

Sonia Alemagno, College of Public Health Andrew Snyder, College of Public Health Akron Community Foundation <i>To support the Greater Akron LGBTQ+ community needs assessment</i>		07/01/21 - 06/30/22	\$10,000
Rebecca Balogh Gates, Theatre and Dance Ohio Arts Council <i>Porthouse Theatre/Operating Support FY 22</i>		07/01/21 - 06/30/22	\$16,791

Kenneth Burhanna, University Libraries Denise Harrison, English David Hassler, Wick Poetry Program/Arts and Sciences Mary Hricko, Geauga Campus Yuko Kurahashi, Theatre and Dance Kristine Pytash, Teaching, Learning and Curriculum Studies Subaward Arts Midwest /National Endowment for the Arts <i>Big Read: Northeast Ohio Reads "An American Sunrise"</i>		07/29/21 - 06/30/22	\$20,000
Adam Cinderich, University College Academic Diversity Success U.S. Department of Education <i>Kent State University Student Support Services Program</i>	Continuation	09/01/21 - 08/31/22	\$527,601
David Hassler, Wick Poetry Program/Arts and Sciences Jessica Jewell, Wick Poetry Program/Arts and Sciences Charles Malone, Wick Poetry Program/Arts and Sciences Gyorgyi Mihalyi-Jewell, Wick Poetry Program/Arts and Sciences Ohio Arts Council <i>Wick Poetry Center Park Stanzas</i>		07/01/21 - 06/30/22	\$14,507
David Hassler, Wick Poetry Program/Arts and Sciences Jessica Jewell, Wick Poetry Program/Arts and Sciences Charles Malone, Wick Poetry Program/Arts and Sciences Gyorgyi Mihalyi-Jewell, Wick Poetry Program/Arts and Sciences Ohio Arts Council <i>Wick Poetry Traveling Stanzas Mobile Makerspace</i>		07/01/21 - 06/30/22	\$13,072
David Hassler, Wick Poetry Program/Arts and Sciences Jessica Jewell, Wick Poetry Program/Arts and Sciences Charles Malone, Wick Poetry Program/Arts and Sciences Gyorgyi Mihalyi-Jewell, Wick Poetry Program/Arts and Sciences Ohio Arts Council <i>Wick Poetry Center/Operating Support FY22</i>		07/01/21 - 06/30/22	\$32,260
Constance Hawke, Compliance and Risk Management David Poluga, Compliance and Risk Management Federal Aviation Administration <i>Install Wildlife Hazard Perimeter Fence (15,500 LF) - Design and Construction</i>		09/02/21 - 09/01/25	\$1,280,284
Amanda Johnson, Center for International and Intercultural Education Martin Jencius, Lifespan Development and Educational Sciences Subaward International Research and Exchanges Board /U.S. Department of State <i>Fall 2021 Fulbright Teaching Excellence and Achievement (Fulbright TEA) Program 21st Century Classroom Media Cohort</i>		07/26/21 - 12/01/21	\$281,847
Deric Kenne, Health Policy Management Substance Abuse and Mental Health Services Administration <i>Summit County MAT Expansion (Sc-MATx)</i>		09/30/21 - 09/29/26	\$525,000
Jennie Koch, Transfer Center Ohio Department of Education <i>Tech Prep FY21 Funding</i>	Additional	07/01/20 - 06/30/21	\$18,500

Jennie Koch, Transfer Center Subaward Cuyahoga Community College /Ohio Department of Education <i>Tech Prep FY22 Funding</i>		07/01/21 - 06/30/20	\$105,000
Yuko Kurahashi, Theatre and Dance Subaward Arts Midwest /National Endowment for the Arts <i>A Lecture, Conversation, and Workshop by DeLanna Studi</i>		08/02/21 - 12/31/21	\$2,500
David Mitchell, Tuscarawas Campus Ohio Arts Council <i>Ohio Artist on Tour - Fee Support FY22</i>		07/01/21 - 06/30/22	\$3,916
David Mitchell, Tuscarawas Campus Ohio Arts Council <i>Tuscarawas Performing Arts Center Sustainability Grant FY22</i>		07/01/21 - 06/30/22	\$35,641
David Mitchell, Tuscarawas Campus Subaward Arts Midwest /National Endowment for the Arts <i>The House Jacks - Concert &amp; Outreach</i>		07/01/21 - 06/30/22	\$2,500
Jennifer O'Connell, Sexual & Relationship Violence Support Services Julius Payne, Sexual & Relationship Violence Support Services Yvette Roberts, Sexual & Relationship Violence Support Services Ohio Department of Higher Education <i>Cultivating Liberation of Diverse Students</i>		05/07/21 - 12/03/21	\$5,000
Joseph Ortiz, Geology Subaward Ohio Space Grant Consortium /National Aeronautics and Space Administration <i>Ohio Space Grant Consortium Campus Allotment AY 21/22</i>	Continuation	08/18/21 - 06/30/22	\$2,000
Daniel Palmer, Trumbull Campus Kristenne Robison, Salem Campus Community Foundation of the Mahoning Valley <i>Kent State University Pilot Prison Education Program</i>		08/01/21 - 07/31/22	\$25,000
Victor Pavona, Stark Campus Subaward Stark County Regional Planning Commission /U.S. Department of Housing and Urban Development <i>Kent State Stark Micro Enterprise Development Program FY22 funding</i>		07/01/21 - 06/30/22	\$32,000
Patricia Robinson, Diversity, Equity and Inclusion U.S. Department of Education <i>Kent State University Upward Bound Math-Science 2017-22</i>	Continuation	09/01/21 - 08/31/22	\$312,480
Patricia Robinson, Diversity, Equity and Inclusion U.S. Department of Education <i>Kent State University Upward Bound Health Professions</i>	Continuation	09/01/21 - 08/31/22	\$312,480
Kristenne Robison, Salem Campus Zachary Mikrut, LaunchNET/University Libraries Burton D. Morgan Foundation <i>Developing Entrepreneurship in Postsecondary Education for Justice-involved Learners</i>		06/16/21 - 06/30/24	\$132,150

Sarah Rogers, Museum Ohio Arts Council <i>Kent State University Museum/Operating Support FY22</i>	07/01/21 - 06/30/22	\$29,858
Marty Ropog, Ohio Literacy Resource Center/Teaching, Learning and Curriculum Studies Martha Lash, Teaching, Learning and Curriculum Studies Subaward Ohio Department of Higher Education /U.S. Department of Education <i>ODHE ASPIRE Workforce Readiness Education Program FY22</i>	07/01/21 - 06/30/22	\$1,066,804
Julia Stoll, Teaching, Learning and Curriculum Studies Ohio Department of Education <i>Early Childhood Education Grant, FY22</i>	07/01/21 - 06/30/22	\$20,000
Dean Tondiglia, Police Department Ohio Department of Public Safety <i>Use of an Explosives Detecting Canine</i>	Continuation 07/01/21 - 06/30/22	\$8,000
Edward Trebets, Ashtabula Campus Subaward Missouri State University /National Science Foundation <i>VESTA Resource Center</i>	07/01/21 - 06/30/24	\$282,977
James Tudhope, Nursing Health Resources and Services Administration <i>Advanced Nursing Education Nurse Practitioner Residency Integration Program</i>	Continuation 09/01/21 - 08/31/22	\$399,780
H. Anderson Turner, Art Ohio Arts Council <i>School of Art Gallery/Kent State University FY22</i>	07/01/21 - 06/30/22	\$8,273
Sonya Williams, Community Outreach U.S. Department of Education <i>Kent State University Educational Opportunity Center</i>	10/01/21 - 09/30/22	\$232,050
Amanda Woodyard, Community Engaged Learning Ebony Pringle, University College PNC Foundation <i>CommUNITY Lab at Kent State University</i>	07/08/21 - 07/09/24	\$75,000

## COMPARATIVE DATA

<b>Fiscal Year to Date</b>	<b>FY 2020 - 2021</b>	<b>FY 2021 - 2022</b>
<b>Total Funding</b>	<b>\$ 15,737,421</b>	<b>\$ 17,779,917</b>
<b>Research</b>	<b>\$ 9,538,703</b>	<b>\$ 9,655,944</b>
<b>Instruction</b>	<b>\$ 2,429,480</b>	<b>\$ 2,290,702</b>
<b>Other Activity</b>	<b>\$ 3,769,239</b>	<b>\$ 5,833,271</b>