

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

**EXTRAMURAL FUNDING REPORT**

**Funds awarded for  
April- June 2023  
\$15,917,758**

**Total funding to date  
FY2022 - 2023  
\$38,725,227**

**Research**

Sonia Alemagno, College of Public Health Akron Summit Community Action, Inc. <i>Needs Assessment - Community Action Akron Summit</i>	05/01/23 - 08/31/23	\$23,704
Veronica Antocheviz Dexheimer Strickland, Physics National Science Foundation <i>CAREER: Dense Phases in Neutron Stars</i>	Supplement 07/01/18 - 09/30/23	\$84,999
Christine Bahlai, Biological Sciences Greenacres Foundation <i>Novel monitoring strategies to assess forest recovery processes</i>	09/01/23 - 08/31/25	\$175,863
Michael Bliss-Schryer, Anthropology American Society of Primatologists <i>In Search of Adrenarche: Spider Monkeys &amp; their Implications in Human Evolution</i>	05/14/23 - 04/20/24	\$1,985
Philip Bos, Advanced Materials Liquid Crystal Institute/Physics Meta Platforms Technologies LLC <i>A single layer SLM have both phase and amplitude modulation</i>	04/01/23 - 09/30/23	\$39,000
James Campbell, Design Innovation Initiative Subcontract Immobileyes, Inc. /U.S. Air Force Research Laboratory <i>Throwable Portable HALAR Visual Disrupter for Air Force Rapid Tactical &amp; Security Operations</i>	05/19/23 - 08/15/23	\$22,500
Ching-I Chen, Lifespan Development and Educational Sciences Woodcock Institute at Texas Woman's University <i>Detecting Cross-cultural Differential Item Functioning of a School Readiness Measure: A Pilot Study in Head Start</i>	09/01/23 - 08/31/24	\$14,000
L.C. Chien, Advanced Materials Liquid Crystal Institute/Chemical Physics Industry Partner <i>Smart Liquid Crystal Windows Phase V</i>	Continuation 07/01/23 - 06/30/24	\$80,216
Douglas Delahanty, Psychology Conquer Chiari Foundation <i>Does coaching effect the impact of online acceptance and commitment therapy for chronic pain in a sample of people with CM?</i>	03/01/23 - 08/31/24	\$10,660

Paul Dykshoorn, Tuscarawas Campus Hossein Mirenejad, College of Aeronautics and Engineering Subcontract Lorain County Community College /Intel Corporation <i>Ohio TechNet Northeast Ohio Semiconductor Workforce Consortium</i>	Supplement	12/23/22 - 08/31/23	\$4,000
Pamela Ferguson, Research and Evaluation Bureau Subaward University of Akron /U.S. Department of Education <i>NE Ohio Achieve</i>	Continuation	09/01/22 - 08/31/23	\$10,260
Pamela Ferguson, Research and Evaluation Bureau Deborah Shama-Davis, Research and Evaluation Bureau Anthony Shreffler, Research and Evaluation Bureau Institute for Multi-Sensory Education <i>IMSE ESSA Study 2023</i>		02/28/23 - 09/30/23	\$24,490
Christopher Flessner, Psychology Subaward HabitAware, Inc. /National Institute of Mental Health <i>Technology Assisted Treatment for Trichotillomania</i>	Continuation	01/01/23 - 12/31/23	\$100,302
Lee Gilman, Psychology Farris Family Fund -Kent State University Foundation <i>Assessing how stress hormone (dys)regulation drives excess salt/sucrose intake as a stress coping behavior</i>		09/01/23 - 08/31/26	\$24,000
Qiang Guan, Computer Science Barry Dunietz, Chemistry Michael Strickland, Physics National Science Foundation <i>REU Supplement: CyberTraining: Implementation: Small: Interactive and Integrated Training for Quantum Application Developers across Platforms</i>	Supplement	11/01/22 - 10/31/25	\$10,000
Tianyuan Guan, Epidemiology/Biostatistics Farris Family Fund -Kent State University Foundation <i>Prevalence of vaping among middle and high school students: Prospects and prevention of addiction</i>		09/01/23 - 08/31/26	\$24,000
Dana Hansen, Nursing Subaward Northeast Ohio Medical University /Health Resources and Services Administration <i>Health and Public Safety Workforce Resiliency Training Program</i>		01/01/23 - 12/31/23	\$8,999
Adam Jajtner, Health Sciences Ellen Glickman, Exercise, Leisure and Sport Deerland/ADM <i>Effects of Solarplast supplementation on biomarkers of muscle damage, inflammation and recovery of physical performance following high-intensity resistance exercise</i>		06/08/23 - 09/30/24	\$119,859
Antal Jakli, Advanced Materials Liquid Crystal Institute/Physics Oleg Lavrentovich, Advanced Materials Liquid Crystal Institute/Physics North Atlantic Treaty Organization <i>New photosensitive polymers with embedded intelligence</i>		04/20/23 - 04/20/26	\$125,832

Antal Jakli, Advanced Materials Liquid Crystal Institute/Physics James Gleeson, Physics Samuel Sprunt, Physics Robert Twieg, Chemistry National Science Foundation <i>Electromechanical Effects of Ferroelectric Nematic Liquid Crystals</i>	Continuation	09/01/22 - 08/31/26	\$239,595
Declan Keane, Physics Spyridon Margetis, Physics U.S. Department of Energy <i>Heavy Ion Collisions over a Range of Relativistic Energies</i>	Continuation	04/01/23 - 03/31/24	\$400,000
Deric Kenne, Health Policy Management Subcontract Stark County Mental Health and Recovery Services Board /Substance Abuse and Mental Health Services Administration <i>Stark County System of Care Data Collection</i>		07/01/23 - 12/30/23	\$7,000
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 - REU Supplement</i>	Supplement	09/15/21 - 08/31/24	\$10,000
Min-Ho Kim, Biological Sciences Woo-Yang Kim, Biological Sciences National Institute on Aging <i>Magnetothermal brain stimulation towards the rescue of beta-amyloid pathology</i>	Continuation	05/01/23 - 04/30/24	\$371,540
Woo-Yang Kim, Biological Sciences Jennifer McDonough, Biological Sciences Richard Piet, Biological Sciences National Institute of Mental Health <i>Cellular mechanism of Arid1b haploinsufficiency-associated social deficit</i>		07/01/23 - 06/30/24	\$557,050
Lauren Kinsman-Costello, Biological Sciences Subaward Bowling Green State University & The Ohio State University /Ohio Department of Higher Education <i>Translating wetland monitoring to better restoration and management: development of a novel simulation-optimization framework for nutrient reduction wetlands</i>		08/01/22 - 06/30/23	\$16,534
Manabu Kurokawa, Biological Sciences National Institute on Aging <i>Role of the ubiquitin E3 ligase HUWE1 in age-associated nonalcoholic fatty liver disease</i>		05/01/23 - 01/31/24	\$203,991
Oleg Lavrentovich, Advanced Materials Liquid Crystal Institute/Physics National Science Foundation <i>Collaborative Research: Morphogenesis of First-Order Phase Transitions in Polar and Apolar Nematic Liquid Crystals</i>	Continuation	07/01/21 - 06/30/24	\$80,471
Cameron Lee, Geography Scott Sheridan, Geography National Oceanic and Atmospheric Administration <i>Excess Heat and Excess Cold Factors: Establishing a unified duration-intensity metric for monitoring hazardous temperature conditions in North America</i>	Continuation	04/01/23 - 03/31/24	\$123,488

Jason Lorenzon, College of Aeronautics and Engineering Syed Arbab Mohd Shihab, College of Aeronautics and Engineering Subcontract Cal Analytics, LLC /Ohio Department of Transportation <i>Open Framework Standards for Combined Aircraft Sensor Network for the State of Ohio to Detect and Track Lower Altitude Aircraft</i>	Additional	09/08/21 - 07/08/23	\$60,000
Ye Lu, College of Aeronautics and Engineering Joycelyn Harrison, College of Aeronautics and Engineering National Science Foundation <i>REU Site: Research Experience for Undergraduates in Robotics and Autonomous Systems</i>		05/01/23 - 04/30/26	\$402,740
Jonathan Maletic, Computer Science National Science Foundation <i>Collaborative Research: CCRI: New: Syntactic Differencing Infrastructure for Software Evolution Research</i>		07/01/23 - 06/30/26	\$447,250
Hanbin Mao, Chemistry Hao Shen, Chemistry National Science Foundation <i>Collaborative Research: Harnessing the chirality matching principle for enhanced catalytic reactivity</i>		07/01/23 - 06/30/26	\$385,767
Spyridon Margetis, Physics U.S. Department of Energy <i>Continuation of IPA Assignment with U.S. Department of Energy</i>	Continuation	11/01/22 - 10/31/24	\$457,978
Jamie McCartney, Lifespan Development and Educational Sciences Olivia Krise, Lifespan Development and Educational Sciences Subaward University of Cincinnati /Ohio Department of Education <i>DEAFinitely Mentoring!</i>	Additional	08/01/22 - 06/30/23	\$5,461
Elias Nader, Sociology Russell Sage Foundation <i>The future of work and reentry for emerging adults</i>		06/01/23 - 05/31/24	\$30,000
Elena Novak, Teaching, Learning and Curriculum Studies Lisa Borgerding, Teaching, Learning and Curriculum Studies Jong-Hoon Kim, Computer Science Jian Li, Foundations, Leadership and Administration National Science Foundation <i>Physical Science Robotics Interdisciplinary Design in Computer Science Education: Broadening Participation in STEM through Cascading Peer-Mentorship</i>		09/01/23 - 08/31/27	\$665,994
Joseph Ortiz, Earth Sciences Subaward Ohio Space Grant Consortium /National Aeronautics and Space Administration <i>OSGC Internship - Summer 2023 - Heestand</i>	Continuation	06/12/23 - 08/18/23	\$9,000
Joseph Ortiz, Earth Sciences Subaward Ohio Space Grant Consortium /National Aeronautics and Space Administration <i>OSGC Master's Fellowship for 2023-2024 - Sipahioglu</i>	Continuation	08/18/23 - 05/31/24	\$10,000
Joseph Ortiz, Earth Sciences Subaward Ohio Space Grant Consortium /National Aeronautics and Space Administration <i>OSGC Master's Fellowship for 2023-2024 - Taylor</i>		08/18/23 - 05/31/23	\$10,000

Joseph Ortiz, Earth Sciences Subaward Ohio Space Grant Consortium /National Aeronautics and Space Administration <i>OSGC 2023-2024 STEM Scholarship - Maller, Horn, Wimer</i>	Continuation	08/18/23 - 05/31/24	\$7,500
Joseph Ortiz, Earth Sciences Subaward Ohio Space Grant Consortium /National Aeronautics and Space Administration <i>Subaward Ohio Space Grant Consortium / Matar</i>	Continuation	08/18/23 - 05/31/24	\$2,500
Diana Catalina Palacios Bustos, Biological Sciences Sangeet Lamichhaney, Biological Sciences Society for the Study of Evolution <i>Workshop on Evolutionary Genomics: Analysis of Genomic and Transcriptomic</i>		05/01/23 - 12/20/23	\$2,000
Richard Piet, Biological Sciences Michael Lehman, Brain Health Research Institute/Biological Sciences National Institute of Child Health and Human Development <i>Suprachiasmatic nucleus to kisspeptin circuit in the circadian control of reproduction</i>		04/05/23 - 01/31/24	\$342,000
Helen Piontkivska, Biological Sciences Northeast Ohio Medical University <i>RNA-seq analysis of spike expression (with NEOMED)</i>		05/09/23 - 05/08/24	\$4,000
Marianne Prévôt, Advanced Materials Liquid Crystals Institute Torsten Hegmann, Advanced Materials Liquid Crystals Institute Ohio Bureau of Workers' Compensation <i>Zero-power, easily customizable, and wearable toxic gas and vapor sensors enabling enhanced safety for Ohio's first responders</i>		07/01/23 - 06/30/24	\$591,704
Shawn Rohlin, Economics Subaward University of Akron /Open Road Renewables <i>Economic Impact Study for Open Road Solar Project</i>	Continuation	12/31/20 - 12/31/22	\$4,131
Harlee Rush, Biological Sciences Geauga Park District <i>Home-field advantage: the effects of litter type, microclimate, and arthropod diversity on leaf-litter decomposition in oak forests of Northeastern Ohio</i>	Continuation	11/02/22 - 11/01/23	\$2,573
Dmitry Ryabogin, Mathematics Artem Zvavitch, Mathematics National Science Foundation <i>Harmonic Analysis in Convex Geometry</i>		06/01/23 - 05/31/26	\$365,144
Gokarna Sharma, Computer Science National Science Foundation <i>CAREER: Transactional Memory for Distributed Systems</i>	Continuation	02/01/21 - 01/31/26	\$119,818
Hao Shen, Chemistry Farris Family Fund -Kent State University Foundation <i>Fully Adjustable Chiral-Induced Spin Selectivity on Coronazymes</i>		09/01/23 - 08/31/24	\$24,000
D Blake Stringer, College of Aeronautics and Engineering Subaward Ohio Space Grant Consortium /National Aeronautics and Space Administration <i>2023 Kent State Design, Build, Fly Team</i>		12/01/22 - 11/30/23	\$5,000

D Blake Stringer, College of Aeronautics and Engineering Subaward Ohio Space Grant Consortium /National Aeronautics and Space Administration <i>2023 Kent State International Rocket Engineering Competition Team</i>		12/01/22 - 11/30/23	\$5,000
David Ward, Biological Sciences Oscar Rocha, Biological Sciences National Science Foundation <i>Collaborative Research: Scale-dependent processes as the drivers for understanding range- and nicheexpansion in a widespread native species - RAHSS) supplement</i>	Supplement	07/15/19 - 06/30/24	\$19,793
David Ward, Biological Sciences Oscar Rocha, Biological Sciences National Science Foundation <i>Collaborative Research: Scale-dependent processes as the drivers for understanding range- and nicheexpansion in a widespread native species - REU supplement</i>	Supplement	07/15/19 - 06/30/24	\$15,000
He Yin, Geography National Aeronautics and Space Administration <i>The effects of the Syrian civil war on cropland in the eastern Mediterranean region</i>	Continuation	04/21/21 - 04/20/24	\$47,742
Hiroshi Yokoyama, Advanced Materials Liquid Crystal Institute/Physics National Aeronautics and Space Administration <i>Structure and Dynamics of Monodisperse Liquid Crystal Domains created on Suspended, Molecularly-Thin Smectic Films using Sub-Femtoliter Inkjet Technology</i>	Continuation	12/30/16 - 12/29/23	\$120,000
Artem Zvavitch, Mathematics Brown University <i>ICERM Harmonic Analysis and Convexity Research Fellow</i>		09/07/22 - 12/09/22	\$25,000

## Instruction

Salma Benhaida, Office of Global Education Subaward International Research and Exchanges Board /U.S. Department of State <i>Fall 2023 Global Undergraduate Exchange Program in Pakistan (Global UGRAD-Pakistan) - Qazi &amp; Amjad</i>	Continuation	08/15/23 - 12/31/23	\$27,292
Salma Benhaida, Office of Global Education Subaward World Learning /U.S. Department of State <i>Fall/Spring Global Undergraduate Exchange Program (Global UGRAD) - AY 22/23</i>	Continuation	08/15/22 - 05/31/23	\$34,950
Salma Benhaida, Office of Global Education Subaward International Research and Exchanges Board /U.S. Department of State <i>Thomas Jefferson scholarship Program 2023-2024 - Jaidane</i>		08/15/23 - 05/31/24	\$27,674
Joanne Caniglia, Teaching, Learning and Curriculum Studies Michele Heron, Stark Campus Rhonda Hylton, Teaching, Learning and Curriculum Studies Lori Wilfong, Stark Campus Subaward Ohio Department of Education /U.S. Department of Education <i>Extension Proposal of Kent State University's High Intensity Tutoring</i>	Continuation	06/01/23 - 05/31/24	\$97,828

## Other Sponsored Activity

Sonia Alemagno, College of Public Health Portage County Health District <i>Portage County Health District - Community Health Worker Workforce Development Initiative</i>		08/15/22 - 05/31/23	\$66,835
Adam Cinderich, University College Academic Diversity Success U.S. Department of Education <i>Kent State University Student Support Services Program</i>	Continuation	09/01/23 - 08/31/24	\$548,705
Danielle Green-Welch, Community Outreach Dave Thomas Foundation for Adoption <i>Scholar Engagement and Permanency Support</i>		04/01/23 - 03/31/24	\$10,000
Danielle Green-Welch, Community Outreach Sonya Williams, Community Outreach Subaward City of Akron /United States Department of Treasury <i>First Star Kent State: Violence Prevention Program</i>		01/01/23 - 12/31/23	\$50,000
Virginia Hall, University Libraries Edith Serkownek, University Libraries National Endowment for the Humanities <i>Pauline Trigere: Fifty years of American fashion entrepreneurship and design: Kent State University</i>		06/01/23 - 12/31/24	\$165,858
Jeffrey Harrell, Upward Bound U.S. Department of Education <i>Kent State University Upward Bound Health Professions</i>	Continuation	09/01/23 - 08/31/24	\$324,979
Jeffrey Harrell, Upward Bound Sonya Williams, Community Outreach U.S. Department of Education <i>Kent State University Upward Bound Math Science</i>	Continuation	09/01/23 - 08/31/24	\$324,979
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, Wick Poetry Program/Arts and Sciences Poetry Foundation <i>Poetry Foundation Support</i>		05/01/23 - 04/30/24	\$25,000
Constance Hawke, Compliance and Risk Management David Poluga, Compliance and Risk Management Federal Aviation Administration <i>Rehabilitate Runway 1/19 (Mill &amp; Overlay 3,000' x 60') (Construction); Reconstruct Runway 1/19 (1,000' x 60') (Construction); Rehabilitate Runway 1/19 RSA Grading (Construction)</i>		06/23/23 - 06/22/27	\$4,228,598
Todd Hawley, Teaching, Leadership and Curriculum Studies Sonya Wisdom, Teaching, Learning and Curriculum Studies Martha Holden Jennings Foundation <i>Becoming a Brave Teacher</i>		04/01/23 - 03/31/24	\$24,962

Amanda Johnson, Center for International and Intercultural Education Martin Jencius, Lifespan Development and Educational Sciences Subaward International Research & Exchanges Board (IREX) /U.S. Department of State <i>2023 Fulbright Teaching Excellence and Achievement (Fulbright TEA) Program (Cohorts I and II)</i>	05/19/23 - 12/01/23	\$234,029
Aloysius Kasturiarachi, Stark Campus Ashley Meinke, Stark Campus Mathematical Association of America <i>Stark County Summer Math Academy 2023</i>	05/01/23 - 08/31/24	\$5,000
Deric Kenne, Health Policy Management Substance Abuse and Mental Health Services Administration <i>Summit County MAT Expansion (Sc-MATx)</i>	Continuation 09/30/23 - 09/29/24	\$525,000
Zachary Mikrut, LaunchNET/University Libraries Burton D. Morgan Foundation <i>NEOLaunchNET 2023-24</i>	07/01/23 - 06/30/24	\$185,000
Penny Minor, Salem Campus Subaward Ohio Mental Health and Addiction Services & PreventionFirst! /United States Department of Treasury <i>Prevention and Wellness Programming for the Columbiana County Campuses</i>	04/18/23 - 06/30/24	\$12,500
Eboni Pringle, University College Subaward Say Yes Cleveland Scholarship, Inc. /The Cleveland Foundation <i>College Now LLC Support</i>	06/12/23 - 06/11/28	\$356,098
Patricia Robinson, Diversity, Equity and Inclusion Sonya Williams, Community Outreach Americorps <i>Kent State: Mission-Vision-Engagement</i>	05/07/23 - 05/04/24	\$0
Mary Rooks, Stark Campus Alexis Baker, Stark Campus Robert King, Stark Campus Subaward Arts Midwest /National Endowment for the Arts <i>Kent State University, with the NEA and Arts Midwest, presents Thi Bui's The Best We Could Do for The Big Read</i>	09/01/23 - 06/30/24	\$14,100
Marty Ropog, Ohio Literacy Resource Center/Teaching, Learning and Curriculum Studies Dominion East Ohio Foundation <i>Kent State University's GED Program: Bridging the Path to Higher Education 2022-2023</i>	Continuation 09/01/22 - 10/31/23	\$7,500
Stephen Schillig, Tuscarawas Campus Subaward Ohio Department of Development /U.S. Small Business Administration <i>Tuscarawas SBDC FY23 - Federal funding</i>	01/01/23 - 12/31/23	\$277,105
Stephen Schillig, Tuscarawas Campus Ohio Department of Development <i>Tuscarawas SBDC FY23 - State Funding</i>	01/01/23 - 12/31/23	\$88,971



Theresa Schwarz, Urban Design Center/Architecture and Environmental Design Clifford Herring, Architecture and Environmental Design National Endowment for the Arts <i>Making Our Own Space Design/Build Installation</i>	01/01/23 - 12/31/23	\$30,000
Julie Senita, Ashtabula Campus The Ashtabula Foundation <i>Kent State University Ashtabula Simulation Education Upgrade and Expansion</i>	06/27/23 - 06/26/24	\$19,424
Ricardo Sepulveda, Music Kulas Foundation <i>Kulas Foundation 2023 Concert Series Sponsor of the Kent Blossom Music Festival</i>	04/01/23 - 03/31/24	\$75,000
LaDarrius Steele, Upward Bound U.S. Department of Education <i>Upward Bound Classic</i>	Continuation 06/01/23 - 05/31/24	\$612,992
Dayonna Taylor, IT Administration and Finance Ohio Department of Development <i>Ohio Tech Cred</i>	02/01/23 - 05/31/24	\$24,880
Dean Tondiglia, Police Department Richard O'Neill, Police Department Ohio Department of Higher Education <i>2022 Campus Safety Grant Program</i>	04/12/23 - 06/30/24	\$387,567
Lori Wilfong, Stark Campus Kathryn Walley, Teaching, Learning and Curriculum Studies Subaward National Writing Project /U. S. Department of Interior National Park Service <i>2023 NWP-KSU/Cuyahoga Valley National Park Service Collaboration</i>	04/01/23 - 11/30/23	\$3,500

## COMPARATIVE DATA

Fiscal Year to Date	FY 2021 - 2022	FY 2022 - 2023
<b>Total Funding</b>	<b>\$ 36,421,226</b>	<b>\$ 38,725,227</b>
<b>Research</b>	<b>\$ 20,394,285</b>	<b>\$ 22,419,391</b>
<b>Instruction</b>	<b>\$ 2,755,775</b>	<b>\$ 2,896,068</b>
<b>Other Activity</b>	<b>\$ 13,271,166</b>	<b>\$ 13,409,767</b>