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

### EXTRAMURAL FUNDING REPORT

<table>
<thead>
<tr>
<th>Funds awarded for</th>
<th>Total funding to date</th>
</tr>
</thead>
<tbody>
<tr>
<td>January - March 2023</td>
<td>FY2022 - 2023</td>
</tr>
<tr>
<td>$6,336,411</td>
<td>$22,807,468</td>
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### Research

<table>
<thead>
<tr>
<th>Research Description</th>
<th>Principal Investigator</th>
<th>Start Date - End Date</th>
<th>Funding</th>
</tr>
</thead>
<tbody>
<tr>
<td>RCN: An International Network to Assess the Status of Insects</td>
<td>Christine Bahlai, Biological Sciences</td>
<td>08/01/22 - 07/31/23</td>
<td>$2,832</td>
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<tr>
<td>From Concept to Consumer: Development of a Modular Project Adaptable to Multiple Courses using CottonWorks as the Primary Learning Resource</td>
<td>Gargi Bhaduri, Fashion Design and Merchandising</td>
<td>01/01/23 - 12/31/23</td>
<td>$10,000</td>
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<tr>
<td>Advances in Vertically Aligned Pancharatnam Phase Devices (VA PPDs)</td>
<td>Philip Bos, Advanced Materials Liquid Crystal Institute/Physics</td>
<td>Additional 10/01/22 - 06/30/23</td>
<td>$23,000</td>
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<tr>
<td>Understanding the central embryonic vasopressin system</td>
<td>Heather Caldwell, Biological Sciences</td>
<td>01/02/23 - 12/31/25</td>
<td>$456,000</td>
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<tr>
<td>Ritual Fungibility in Modern Fraternities: Pilot Study</td>
<td>Aldo Cimino, Anthropology</td>
<td>11/03/22 - 04/30/23</td>
<td>$1,518</td>
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<tr>
<td>MAT- Opioid Mending Hearts Evaluation Project/SAMHSA</td>
<td>Patrick Dillon, Stark Campus</td>
<td>10/01/21 - 09/30/22</td>
<td>$5,693</td>
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<tr>
<td>MAT- Opioid Mending Hearts Evaluation Project/SAMHSA</td>
<td>Patrick Dillon, Stark Campus Continuation</td>
<td>10/01/22 - 09/29/23</td>
<td>$5,909</td>
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<tr>
<td>MAT- Opioid Buffalo Valley Evaluation Project/SAMHSA</td>
<td>Patrick Dillon, Stark Campus</td>
<td>10/01/21 - 09/30/22</td>
<td>$5,693</td>
</tr>
<tr>
<td>MAT- Opioid Buffalo Valley Evaluation Project/SAMHSA</td>
<td>Patrick Dillon, Stark Campus Continuation</td>
<td>09/30/22 - 09/29/23</td>
<td>$5,909</td>
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</table>
Paul Dykshoorn, Tuscarawas Campus
Hossein Mirinejad, College of Aeronautics and Engineering
Subcontract Lorain County Community College /Intel Corporation
Ohio TechNet Northeast Ohio Semiconductor Workforce Consortium

Metin Eren, Anthropology
Michelle Bebber, Anthropology
Subcontract Battelle Memorial Institute, Pacific Northwest Division /U.S. Department of Energy
Compass Project: Field, Measurements, and Experiments

Benjamin Fregoso, Physics
National Science Foundation
Towards a Unified Framework of Quantum Dynamics of Nonlinear Optical and Transport Processes

Gregory Gibson, Sociology
Matthew Pfeiffer, Sociology
Anthony Vander Horst, Sociology
Subaward Office of Criminal Justice Services /U.S. Department of Justice
OCJS Project Stakeholder Survey

Gregory Gibson, Sociology
Richard Adams, Sociology
Anthony Vander Horst, Sociology
Subaward Maryland Department of Health /Centers for Disease Control and Prevention
Maryland PRAMS

Qiang Guan, Computer Science
National Science Foundation
CAREER: The Research of Noise-Aware Scheduling for Noisy Intermediate-Scale Quantum Systems

John Gunstad, Psychology
National Institute on Aging
Spontaneous Speech and Health Disparities in Risk of Cognitive Decline: WHICAP Offspring Ancillary Study

Jeffrey Hallam, Social and Behavioral Sciences
Vinay Cheruvu, Biostatistics/Epidemiology/Environmental Health
Oriana House, Inc.
Oriana House Inc Co-Op - Spring 2023

Songping Huang, Chemistry
Min-Ho Kim, Biological Sciences
National Institute of Allergy and Infectious Diseases
A broad-spectrum antimicrobial ointment containing Bi2O3 NPs for skin and soft tissue infections by multidrug-resistant bacteria

Antal Jakli, Advanced Materials Liquid Crystal Institute/Physics
Torsten Hegmann, Advanced Materials Liquid Crystals Institute
NewSight Reality, Inc.
Nano-PDLCs for optical applications

Continuation 03/01/23 - 08/31/23 $142,590
Deric Kenne, Health Policy Management  
Subaward Health Recovery Services, Inc. /Substance Abuse and Mental Health Services Administration  
*Health Recovery Services Inc - Medication Assisted Treatment*

Lauren Kinsman-Costello, Biological Sciences  
Christine Bahhla, Biological Sciences  
David Costello, Biological Sciences  
Subaward The Ohio State University & The Ohio Department of Natural Resources /U.S. Environmental Protection Agency  
*H2Ohio Wetland Monitoring Sensor Infrastructure & Capacity*

Karl Kosko, Teaching, Learning and Curriculum Studies  
Rick Ferdig, Lifespan Development and Educational Sciences  
Qiang Guan, Computer Science  
The Jaffe Foundation  
*Designing a Machine Learning Tool to Assess Children's Fraction Arithmetic*

Karl Kosko, Teaching, Learning and Curriculum Studies  
Joanne Caniglia, Teaching, Learning and Curriculum Studies  
Pamela Ferguson, Research and Evaluation Bureau  
Martha Holden Jennings Foundation  
*Visualizing Math via Manipulatives*

Mourad Krifa, Fashion Design and Merchandising  
Cotton Incorporated  
*Cotton and Social Media Literacy: Critical Thinking and Evidence-Based Information Discernment in the Undergraduate Classroom*

Felix Kumah-Abiwu, Africana Studies  
Subaward U.S. Embassy South Africa & University of Fort Hare /U.S. Department of State  
*Heritage Ubuntu Research between South Africa and the United States*

Oleg Lavrentovich, Advanced Materials Liquid Crystal Institute/Physics  
CareGlance Sr  
*Nematic cells for fast electro-optic switching*

Mei-Chen Lin, Communication Studies  
National Communication Association  
The effect of VR contact on American domestic students' attitudes toward international students

Elizabeth Mann, Physics  
National Science Foundation  
*Intergovernmental Personnel Act (IPA) Assignment*

Hanbin Mao, Chemistry  
Yaorong Zheng, Chemistry  
National Cancer Institute  
*Mechanical Modulation of Cell Migrations by DNA Nanoassemblies*

Aleisha Moore, Biological Sciences  
Continuation  
National Institute of Child Health and Human Development  
The role of Kisspeptin/Neurokinin B/Dynorphin (KNDy) neurons in the pathogenesis of polycystic ovarian syndrome
Devin Mueller, Biological Sciences
Subaward Ponce Medical School Foundation, Inc. (PMSF) /National Institute on Minority Health and Health Disparities
*Effect of early-life neglect and cocaine use on PTSD-like behaviors*

Jennifer O'Connell, Sexual & Relationship Violence Support Services
Ohio Department of Higher Education
*Kent Community Safe Bars Training*

Peter Palfy-Muhoray, Advanced Materials Liquid Crystal Institute/Mathematics
Xiaoyu Zheng, Mathematics
Subaward AlphaMicron & Parallax Advanced Research /Ohio Federal Research Network
*Electronically Dimmable Electronic Eyewear*

Noel Palomo-Lovinski, Fashion Design and Merchandising
Cotton Incorporated
*Understanding Cotton’s Sustainable Impact through LCAs*

Mary Ann Raghanti, Anthropology
Melissa Edler, Biomedical Sciences/Anthropology
Subaward MD Anderson Cancer Center /National Institute on Aging
*Alzheimer's Disease Pathology in a Primate Model*

Krissi Riewe, Fashion Design and Merchandising
Cotton Incorporated
*Creative Design with Cotton in a Digital Age*

Kristenne Robison, Salem Campus
Alliance for Higher Education in Prison
*The Higher Education in Prison Landscape Project Cohort Program*

Andrew Snyder, College of Public Health
The George Gund Foundation
*Greater Cleveland LGBTQ+ Community Needs Assessment*

Andrew Snyder, College of Public Health
The Mt. Sinai Health Care Foundation
*Greater Cleveland LGBTQ+ Community Needs Assessment*

Matthew Stefanak, College of Public Health
Mahoning County District Board of Health
*Mahoning County Strategic Plan*

Mary Step, Social and Behavioral Sciences
The MetroHealth System
*MetroHealth Positive Peers 2022-2023*

Nathan Stevenson, Lifespan Development and Educational Sciences
University of Alabama
*Project CLIMB: Consultation for Learning and Interactive Mastery Building*

Michael Strickland, Physics
U.S. Department of Energy
*Non-equilibrium Dynamics of the Quark Gluon Plasma*
Allyson Tessin, Earth Sciences
National Science Foundation
*Role of Ice Sheet Instability in Marine Carbon and Nutrient Cycling in the Eurasian Arctic*

Artem Zvavitch, Mathematics
Dmitry Ryabogin, Mathematics
United States-Israel Binational Science Foundation
*Convex and integral geometry and its relations to harmonic analysis and representation theory*

### Instruction

Sonia Alemagno, College of Public Health
Subaward The MetroHealth System /Health Resources and Services Administration
*Community Health Worker Training Program*

Salma Benhaida, Office of Global Education
Subaward World Learning /U.S. Department of State
*Global Undergraduate Exchange Program (Global UGRAD) - Summer 2022 Student*

Lique Coolen, Brain Health Research Institute/Biological Sciences
Wilson Chung, Biological Sciences
Paul Dykshoorn, Tuscarawas Campus
Michael Fisch, College of Aeronautics and Engineering
David Kaplan, Geography
Aloysius Kasturiarachi, Stark Campus
Edgar Kooijman, Biological Sciences
Evgenia Soprunova, Mathematics
Michael Tubergen, Chemistry
Ohio Department of Higher Education
*Choose Ohio First Scholar Program at Kent State University*

Lique Coolen, Brain Health Research Institute/Biological Sciences
Dana Lawless-Andric, Diversity, Equity and Inclusion
Ohio Department of Higher Education
*Choose Ohio First Scholar Program at Kent State University*

### Other Sponsored Activity

William Beisel, Tuscarawas Campus
Paul Dykshoorn, Tuscarawas Campus
U.S. Department of Labor
*Multi-County Advanced Manufacturing Corridor (MCAMC)*

Matthew Cola, Tech Prep
Subaward Cuyahoga Community College /Ohio Department of Education
*Tech Prep FY23 Funding*

Ken Ditlevson, LGBTQ Center/Diversity, Equity and Inclusion
Jessica Denmon, Diversity, Equity and Inclusion
Akron Community Foundation
*To support QUEST mentorship program*
Constance Hawke, Compliance and Risk Management  
David Poluga, Compliance and Risk Management  
Ohio Department of Transportation  
*Airport Improvement Program Grant (Match for FAA grant (3-39-0042-022-2022)*  

09/01/22 - 09/30/24 $8,333

Amanda Johnson, Center for International and Intercultural Education  
Debora Rozner, English as a Second Language  
Subaward Institute of International Education, Inc. /U.S. Department of State  
*Kent State Fulbright Pre-Academic Program*

03/23/23 - 10/20/23 $224,650

Jacqueline Marino, Journalism and Mass Communication  
Rosalie Murphy, Journalism and Mass Communication  
Susan Zake, Journalism and Mass Communication  
Media in the Public Interest  
*The Kent State-Ohio News Connection Reporting Project*

Continuation 11/30/22 - 12/01/23 $6,040

Jessica Paull, Salem Campus  
Foundation for Appalachian Ohio  
*Youth Resiliency Capacity Building for East Palestine Rising Scholars*

03/01/23 - 05/15/23 $1,995

Jennifer Rice, University Libraries  
Subaward State Library of Ohio /Institute of Museum and Library Services  
*Celebrating Ohio Book Awards & Authors*

03/01/23 - 05/31/23 $2,000

Dean Tondiglia, Police Department  
Subaward Ohio Emergency Management Agency /United States Department of Treasury  
*ARPA First Responder Wellness, Recruitment, Retention & Resiliency*

07/01/22 - 12/31/24 $45,500

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**COMPARATIVE DATA**

<table>
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<tr>
<th>Fiscal Year to Date</th>
<th>FY 2021 - 2022</th>
<th>FY 2022 - 2023</th>
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<tbody>
<tr>
<td><strong>Total Funding</strong></td>
<td>$ 28,127,176</td>
<td>$ 22,807,468</td>
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<tr>
<td><strong>Research</strong></td>
<td>$ 15,507,544</td>
<td>$ 15,317,959</td>
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<tr>
<td><strong>Instruction</strong></td>
<td>$ 2,398,990</td>
<td>$ 2,708,324</td>
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<tr>
<td><strong>Other Activity</strong></td>
<td>$ 10,220,641</td>
<td>$ 4,781,186</td>
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