Research

Sanjaya Abeysirigunawardena, Chemistry
National Institute of General Medical Sciences
Investigation of the key structural and sequence features essential for m6A recognition during post-transcriptional regulation of gene expression
09/15/20 - 08/31/23 $454,624

Christine Bahlai, Biological Sciences
Rebecca Catto, Sociology
Bridget Mulvey, Teaching, Learning and Curriculum Studies
Mozilla Foundation
How do you know? A podcast exploring the numbers behind our beliefs, and everything in between
09/01/20 - 12/31/20 $12,000

Sara Bayramzadeh, Architecture and Environmental Design
Mary Anthony, Nursing
Douglas Delahanty, Psychology
Agency for Healthcare Research and Quality
Towards a Model of Safety and Care for Trauma Room Design
Continuation 09/30/20 - 09/29/21 $617,490

Yossef Ben-Porath, Psychology
University of Minnesota
Further Development of the MMPI-3
07/01/20 - 06/30/21 $127,847

Christopher Blackwood, Biological Sciences
Margarita Benitez, Fashion Design and Merchandising
Subaward University of Akron/National Science Foundation
Type II: The University of Akron I-Corps Site: BioBlack
10/04/19 - 02/28/21 $2,500

Philip Bos, Advanced Materials Liquid Crystal Institute/Physics
Facebook Technologies, LLC
Liquid Crystal Based Polarization Volume Holograms
07/01/20 - 01/01/22 $188,000

Philip Bos, Advanced Materials Liquid Crystal Institute/Physics
Facebook Technologies, LLC
Gradient Index Liquid Crystal (GRIN LC) Lens: Discrete Electrode Design
07/01/20 - 03/31/21 $100,000

Megan Brown, Biological Sciences
Ohio Biological Survey Inc.
Maternal Effects and Allelopathy: Does mother "know" best?
01/01/20 - 08/31/21 $500
Kathleen Campana, Library and Information Science  
William Penn Foundation  
*Read Baby Read*

L.C. Chien, Advanced Materials Liquid Crystal Institute/Chemical Physics  
Industry Partner  
*Smart Liquid Crystal Windows Stage II*

Robert Clements, Biological Sciences  
Jun Li, Mathematics  
Cheng-Chang Lu, Computer Science  
National Institute of General Medical Sciences  
*Automating Biomedical Data Analysis*

Karin Coifman, Psychology  
Douglas Delahanty, Psychology  
John Gunstad, Psychology  
National Institute of Mental Health  
*Administrative Supplement: Unpacking Emotion Inflexibility and Prospective Prediction of Affective Disease*

Windy Cole, College of Podiatric Medicine  
Stacy Coe, College of Podiatric Medicine  
Abe Osbourne, College of Podiatric Medicine  
Zymo Research Corp.  
*Comparing the Composition of Cutaneous Microbiota on the Plantar Surface of the Diabetic and Non-diabetic Foot*

Windy Cole, College of Podiatric Medicine  
Abe Osbourne, College of Podiatric Medicine  
SerenaGroup Inc.  
*LifeCuff DFU Trial*

Windy Cole, College of Podiatric Medicine  
Abe Osbourne, College of Podiatric Medicine  
SerenaGroup Inc.  
*HITIDE Diabetic Foot Ulcer Clinical Trial*

David Costello, Biological Sciences  
National Science Foundation  
*CAREER: Beyond N and P: How trace metal limitation influences stream ecosystem function*

Barry Dunietz, Chemistry  
U.S. Department of Energy  
*Post-Marcus Theory and Simulation of Interfacial Charge Transfer Dynamics in Organic Semiconducting Materials*

John Dunlosky, Psychology  
Bradley Morris, Lifespan Development and Educational Sciences  
Clarissa Thompson, Psychology  
National Science Foundation  
*Numerical Understanding Mentored By Expert Researchers (NUMBERs) workshop*
Yanhai Du, College of Aeronautics and Engineering  
Subcontract Precision Combustion Inc./U.S. Department of Energy  
*Advanced Solid Oxide Fuel Cell Components Enabled through Additive Manufacturing*

Maxim Dzero, Physics  
National Science Foundation  
*Electronic Correlations and Disorder in Berry materials*

Jeffrey Hallam, Social and Behavioral Sciences  
Cleveland Clinic Foundation  
*Student Co-op Experience - Elena Blaginykh*

Dana Hansen, Nursing  
Tracey Motter, Nursing  
Josiah Macy Jr Foundation  
*Catalyzing Relationships at the End of Life Program*

Torsten Hegmann, Advanced Materials Liquid Crystals Institute  
Antal Jakli, Advanced Materials Liquid Crystal Institute/Physics  
Samuel Sprunt, Physics  
National Science Foundation  
*MRI: Acquisition of an ultrasmall-, small- and wide-angle x-ray scattering instrument for multidisciplinary advanced materials and soft matter research and education*

Torsten Hegmann, Advanced Materials Liquid Crystals Institute  
Antal Jakli, Advanced Materials Liquid Crystal Institute/Physics  
Samuel Sprunt, Physics  
Ohio Department of Higher Education  
*MRI: Acquisition of an ultrasmall-, small- and wide-angle x-ray scattering instrument for multidisciplinary advanced materials and soft matter research and education*

Torsten Hegmann, Advanced Materials Liquid Crystals Institute  
Subaward Case Western Reserve University/National Aeronautics and Space Administration  
*Microgravity Studies of Nanoparticles and Topological Defects in Liquid Crystal Thin Films*

Joel Hughes, Psychology  
Gregory Gibson, Sociology  
Anthony Vander Horst, Sociology  
Christopher Woolverton, Biostatistics/Epidemiology/Environmental Health  
Cleveland Brain Health Initiative  
*Risk and protective factors for lasting mental health impact of the COVID-19 pandemic*

Julia Huyck, Health Sciences  
National Institute on Deafness and Other Communication Disorders  
*Processes underlying immature auditory perception during adolescence*

Julia Huyck, Health Sciences  
Akron Children's Hospital  
*Factors affecting long-term speech and hearing outcomes for children with chronic middle ear infections*
Adam Jajtner, Health Sciences  
Eliott Arroyo Delgado, Health Sciences  
National Strength and Conditioning Association  
*Effects of Vitamin D Supplementation on Performance Recovery Following Resistance Exercise*

Ruoming Jin, Computer Science  
Deric Kenne, Health Policy Management  
National Science Foundation  
*EAGER: Collaborative Research: Understanding Human Behaviors and Mental Health using Federated Machine Learning on Smart Phones*

Deric Kenne, Health Policy Management  
Subaward Early Childhood Resource Center /Sisters of Charity Foundation of Canton  
*SPARK Evaluation 2021*

Deric Kenne, Health Policy Management  
Continuation  
Ruoming Jin, Computer Science  
Substance Abuse and Mental Health Services Administration  
*Northeast Ohio Tri-County Prevention Infrastructure (TCPI)*

Deric Kenne, Health Policy Management  
Supplement  
Subaward Early Childhood Resource Center /Sisters of Charity Foundation of Canton  
*2020-2021 AY SPARK Contract Deliverables (2020 Cohort) - Supplement*

Oleg Lavrentovich, Advanced Materials Liquid Crystal Institute/Physics  
Sergij Shiyanovskii, Advanced Materials Liquid Crystals Institute  
U.S. Department of Energy  
*Command of active and responsive elastomers by topological defects and patterns*

Oleg Lavrentovich, Advanced Materials Liquid Crystal Institute/Physics  
National Science Foundation  
*Electrically tunable cholesteric optical filters - Internship supplement*

Jun Li, Mathematics  
National Science Foundation  
*Offline and Online Change-Point Analysis for Large-Scale Time Series Data*

Jonathan Maletic, Computer Science  
National Science Foundation  
*CCRI: ENS: Collaborative Research: Enabling Automated Language Support for the srcML Infrastructure*

Hanbin Mao, Chemistry  
National Cancer Institute  
*Specific Recognition of G-quadruplexes*

Aleisha Moore, Biological Sciences  
National Institute of Child Health and Human Development  
*The role of Kisspeptin/Neurokinin B/Dynorphin (KNDy) neurons in the pathogenesis of polycystic ovarian syndrome*

Xiaozhen Mou, Biological Sciences  
United States Department of Treasury  
*CARES Act: State of Ohio Wastewater SARS-CoV-2 Surveillance Project*
Chang-Guen Oh, Flight Training
Dankook University
AI-Based Urban Air Mobility Flight Path Monitoring Platform Using AR/VR
06/01/20 - 05/31/21 $70,000

Peter Palffy-Muhoray, Advanced Materials Liquid Crystal Institute/Mathematics
Subcontract AlphaMicron Inc. /U.S. Air Force Research Laboratory
Electronically Dimmable Eyewear Protection Devices Phase II
06/01/20 - 02/28/22 $100,000

Peter Palffy-Muhoray, Advanced Materials Liquid Crystal Institute/Mathematics
Subaward University of Massachusetts, Amherst/U.S. Office of Naval Research
Photomechanical Material Systems: From Molecules to Devices
Continuation 06/01/18 - 05/31/23 $240,000

Peter Palffy-Muhoray, Advanced Materials Liquid Crystal Institute/Mathematics
U.S. Office of Naval Research
A high power tunable light source for new photomechanical materials development
07/20/20 - 07/19/21 $70,695

Elizabeth Piatt, University College Academic Diversity Success
U.S. Department of Education
Kent State University McNair Scholars Program
Continuation 10/01/20 - 09/30/21 $272,364

Mary Ann Raghanti, Anthropology
National Science Foundation
Human Origins and Comparative Neurochemistry
Continuation 05/15/19 - 04/30/22 $104,472

Angela Ridgel, Health Sciences
Subaward Northwestern University /National Institute of Neurological Disorders and Stroke
Study in Parkinson Disease of Exercise Phase 3 Clinical Trial: SPARX3
09/15/20 - 09/14/23 $432,000

Shawn Rohlin, Economics
Charles Koch Foundation
Local Economic Multipliers: What we know, what we do not know, and new estimates from modern empirical techniques
Continuation 09/01/20 - 06/30/21 $20,967

Kuldeep Singh, Geology
Subaward AquaNRG Consulting Inc. /U.S. Department of Energy
SBIR Phase II Subaward through AquaNRG: PoreStudio: First Cloud-based Reactive Flow Simulator
06/01/20 - 05/27/21 $34,000

Mary Beth Spitznagel, Psychology
Alanna Updegraff, Psychology
The Robert Wood Johnson Foundation
Clinical Scholars Cohort Five - 2020: Addressing the Veterinarian Mental Health Crisis through an ACT-Based Program
09/15/20 - 09/14/23 $432,000

Michael Strickland, Physics
Subaward Wayne State University /National Science Foundation
CSSI: Frameworks: X-Ion Collisions with a Statistically and Computationally Advanced Program Envelope (X-SCAPE)
07/01/20 - 06/30/21 $1,500

D Blake Stringer, College of Aeronautics and Engineering
Md Amiruzzaman, College of Aeronautics and Engineering
Jenna Merriman, College of Aeronautics and Engineering
Subcontract Cal Analytics, LLC/Ohio Federal Research Network
Interoperability, Resiliency, and Contigency Management for Ohio UAS Operations
Additional 02/01/20 - 06/15/21 $90,000
<table>
<thead>
<tr>
<th>Name</th>
<th>Field</th>
<th>Grant Details</th>
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<tbody>
<tr>
<td>Clarissa Thompson</td>
<td>Psychology</td>
<td>An Educational Intervention to Combat Whole Number Bias in Risk Perceptions in an Ambiguous Health Context: COVID-19</td>
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<tr>
<td>Karin Coifman</td>
<td>Psychology</td>
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<td>Jennifer Taber</td>
<td>Psychology</td>
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<td>U.S. Department of Education</td>
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<td>Robert Twieg, Chemistry</td>
<td>Chemistry</td>
<td>Low Birefringence Liquid Crystalline Photoreactive Polymer</td>
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<td>Facebook Technologies, LLC</td>
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<td>Darlene Unger, Lifespan Development and Educational Sciences</td>
<td>Administration for Community Living</td>
<td>A Professional Development and Case Management (PDCM) Model for Seamless Transition Planning: Improving Postschool Outcomes</td>
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<td>National Science Foundation</td>
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<td>He Yin, Geography</td>
<td>Geography</td>
<td>Cropland Abandonment Map</td>
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<td>Ching-I Chen, Lifespan Development and Educational Sciences</td>
<td>National Aeronautics and Space Administration</td>
<td>Structure and Dynamics of Monodisperse Liquid Crystal Domains created on Suspended, Molecularly-Thin Smectic Films using Sub-Femtoliter Inkjet Technology</td>
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**Instruction**

<table>
<thead>
<tr>
<th>Name</th>
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<th>Grant Details</th>
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<tbody>
<tr>
<td>Sonia Alemagno</td>
<td>College of Public Health</td>
<td>Choose Ohio First Scholarship Program: Scholarships in STEMM at Kent State University in Public Health</td>
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<tr>
<td>Jennifer Miller</td>
<td>College of Public Health</td>
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<td>Ohio Department of Higher Education</td>
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<td>Ching-I Chen, Lifespan Development and Educational Sciences</td>
<td>Interdisciplinary Preparation in Early Educational Professions (Project INPREP)</td>
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<td>Kizzy Albritton</td>
<td>Lifespan Development and Educational Sciences</td>
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<tr>
<td>Sanna Harjusola-Webb</td>
<td>Lifespan Development and Educational Sciences</td>
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<td>Aloysius Kasturiarachi</td>
<td>Stark Campus</td>
<td>Choose Ohio First Scholarship Program: Scholarships in STEMM at Kent State University - Stark</td>
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<td>Christine Kauth</td>
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<tr>
<td>Gregory A Smith</td>
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<td>Ohio Department of Higher Education</td>
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<tr>
<td>Name</td>
<td>Program Description</td>
<td>Start Date</td>
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<td>Edgar Kooijman, Biological Sciences</td>
<td>Choose Ohio First Scholarship Program: Career Pathways in STEM-Life Sciences: Advancing the human condition with technology</td>
<td>07/01/20 - 06/30/21</td>
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<td>Gail Fraizer, Biological Sciences</td>
<td>Continue Ohio First Scholarship Program: Integrated Science Training for Northeast Ohio's Future Biomedical and Biotechnology Workforce - Legacy program</td>
<td>07/01/20 - 06/30/21</td>
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<td>Tracey Motter, Nursing</td>
<td>Choose Ohio First Scholarship Program: Linked-In to Practice BSN Program</td>
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<td>Davison Mupinga, Teaching, Learning and Curriculum Studies</td>
<td>CTE Teacher Preparation and Retention FY21</td>
<td>07/01/20 - 06/30/21</td>
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<td>Joseph Ortiz, Geology</td>
<td>Ohio Space Grant Consortium State-Funded Scholarships</td>
<td>08/17/20 - 05/31/21</td>
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<td>Frank Sansosti, Lifespan Development and Educational Sciences</td>
<td>School Psychology Internship Coordination and Recruitment Kent State University School Psychology Program (FY 21)</td>
<td>07/01/20 - 06/30/21</td>
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<td>Evgenia Soprunova, Mathematics</td>
<td>Choose Ohio First Scholarship Program: Careers in Mathematics and Computer Science</td>
<td>07/01/20 - 06/30/21</td>
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<td>Andrew Tonge, Mathematics</td>
<td>Ohio Department of Higher Education</td>
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<td>Michael Tubergen, Chemistry</td>
<td>Choose Ohio First Scholarship Program: Workforce Training for Ohio's STEM Industries</td>
<td>07/01/20 - 06/30/21</td>
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</table>
Wendy Umberger, Nursing
Marilyn Nibling, Nursing
Andrea Warner Stidham, Nursing
Health Resources and Services Administration
Building Interdisciplinary Teams and Preparing Psychiatric Mental Health (PMH) Nurse Practitioners to Provide PMH Treatment in Integrated Primary Care

Continuation 09/01/20 - 08/31/21 $354,444

Other Sponsored Activity

Rebecca Balogh Gates, Theatre and Dance
Ohio Arts Council
Porthouse Theatre FY21 Operating Support
07/01/20 - 06/30/21 $16,791

Joanne Caniglia, Teaching, Learning and Curriculum Studies
Davison Mupinga, Teaching, Learning and Curriculum Studies
Stark Community Foundation
Home Activity Packets for SPARK Summer Learning: A KSU and ECRC Collaboration
08/04/20 - 02/04/21 $1,200

Mark Cassell, Political Science
Ohio Department of Higher Education
Washington Program in National Issues FY20 & FY21
Continuation 07/01/20 - 06/30/21 $40,000

Adam Cinderich, University College Academic Diversity Success
N.J. Akbar, University College Academic Diversity Success
U.S. Department of Education
Kent State University Student Support Services Program
09/01/20 - 08/31/21 $527,601

Joanne Fenn, Museum
Institute of Museum and Library Services
Kent State University Museum Upgraded Storage Project for Western Costume 1673-1919
09/01/20 - 05/31/22 $171,119

Amoaba Gooden, Pan-African Studies
Gina Campana, Diversity, Equity and Inclusion
Burton D. Morgan Foundation
Kent State University's Diversity Education and Training Workshops
09/01/20 - 12/31/20 $2,000

David Hassler, Wick Poetry Program/Arts and Sciences
Jessica Jewell, Wick Poetry Program/Arts and Sciences
Ohio Arts Council
Wick Poetry Center FY21 Operating Support
07/01/20 - 06/30/21 $20,805

Jennie Koch, Transfer Center
Subaward Cuyahoga Community College /Ohio Department of Education
Tech Prep FY21 Funding
07/01/20 - 06/30/21 $177,867

Donald Larabee, Salem Campus
Ohio Department of Higher Education
Kent State University Rising Scholars Program
Continuation 07/01/20 - 06/30/21 $80,000
Marianne Martens, Library and Information Science
Joanne Caniglia, Teaching, Learning and Curriculum Studies
Gretchen Rinnert, Visual Communication Design
Subaward American University of Nigeria / U.S. Department of State
*Addressing Education in Northeast Nigeria - Adamawa and Gombe States*

David Mitchell, Tuscarawas Campus
Ohio Arts Council
*Performing Arts Center Kent State Univ at Tuscarawas FY21 Operating Support*

David Mitchell, Tuscarawas Campus
Subaward Midwest Arts / National Endowment for the Arts
*Arts Midwest Touring Fund 2020-2021*

Victor Pavona, Stark Campus
Subaward Stark County Regional Planning Commission / U.S. Department of Housing and Urban Development
*Kent State Micro Enterprise Development Program*

Victor Pavona, Stark Campus
Subaward Ohio Development Services Agency / U.S. Small Business Administration
*Stark SBDC Small Business Development Center FY 2020 (Federal) - supplement*

Fabio Polanco, Theatre and Dance
Ohio Arts Council
*Missionaries*

Patricia Robinson, Diversity, Equity and Inclusion
U.S. Department of Education
*Kent State University Upward Bound Health Professions*

Patricia Robinson, Diversity, Equity and Inclusion
U.S. Department of Education
*Kent State University Upward Bound Math-Science 2017-22*

Sarah Rogers, Museum
Ohio Arts Council
*Fashion Museum Operating Support FY21*

Marty Ropog, Ohio Literacy Resource Center / Teaching, Learning and Curriculum Studies
Alexa Sandmann, Teaching, Learning and Curriculum Studies
Subaward Ohio Department of Higher Education / U.S. Department of Education
*ODHE Aspire FY2021 - Federal allocation*

Marty Ropog, Ohio Literacy Resource Center / Teaching, Learning and Curriculum Studies
Alexa Sandmann, Teaching, Learning and Curriculum Studies
Subaward Ohio Department of Higher Education / U.S. Department of Education
*ODHE Aspire FY2021 - Federal Allocation*

Marty Ropog, Ohio Literacy Resource Center / Teaching, Learning and Curriculum Studies
Subaward Sacramento Public Library / Institute of Museum and Library Services
*Tutor Ready Writing Videos*

Stephen Schillig, Tuscarawas Campus
Subaward Ohio Development Services Agency / U.S. Small Business Administration
*FY2020 Small Business Development Center (SBDC) at Tuscarawas (Federal)*
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<tr>
<th><strong>Ricardo Sepulveda, Music</strong></th>
<th><strong>MusiKulas Foundation</strong></th>
<th><strong>General Operating Support</strong></th>
<th>03/16/20 - 03/15/21</th>
<th>$15,000</th>
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<tr>
<td><strong>William Southards, College of Aeronautics and Engineering</strong></td>
<td><strong>Subaward Ohio Development Services Agency ’U.S. Small Business Administration COVID-19 Supplemental Funding for Ohio SBDC at Kent State University CAE</strong></td>
<td><strong>Supplement</strong></td>
<td>04/01/20 - 09/30/21</td>
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<td><strong>Julia Stoll, Teaching, Learning and Curriculum Studies</strong></td>
<td><strong>Ohio Department of Education Early Childhood Education Grant, FY21</strong></td>
<td>07/01/20 - 06/30/21</td>
<td>$20,000</td>
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<td><strong>James Tudhope, Nursing</strong></td>
<td><strong>Wendy Umberger, Nursing Health Resources and Services Administration Advanced Nursing Education Nurse Practitioner Residency Integration Program</strong></td>
<td>09/01/20 - 08/31/21</td>
<td>$399,780</td>
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<td><strong>H. Anderson Turner, Art</strong></td>
<td><strong>Ohio Arts Council Art Gallery Operating Support FY21</strong></td>
<td>07/01/20 - 06/30/21</td>
<td>$5,378</td>
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<td><strong>Erin Vaughn, Stark Campus</strong></td>
<td><strong>Ohio Arts Council 5th Annual Kent State Stark Guitar Weekend</strong></td>
<td>08/01/20 - 06/30/21</td>
<td>$2,079</td>
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<td><strong>Jasmina Waters, Diversity, Equity and Inclusion</strong></td>
<td><strong>U.S. Department of Education Kent State University Upward Bound Classic 2017-22</strong></td>
<td>06/01/20 - 05/31/21</td>
<td>$19,932</td>
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<td><strong>Susan Zake, Journalism and Mass Communication</strong></td>
<td><strong>Kevin Dilley, Journalism and Mass Communication Scripps Howard Foundation The Collaborative News Lab @ Kent State University</strong></td>
<td>06/01/20 - 11/15/20</td>
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**COMPARATIVE DATA**

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<th>Fiscal Year to Date</th>
<th><strong>FY 2019 - 2020</strong></th>
<th><strong>FY 2020 - 2021</strong></th>
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<td>Total Funding</td>
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<td>Research</td>
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<td>$ 9,538,703</td>
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<td>Other Activity</td>
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<td>$ 3,769,239</td>
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