# EXTRAMURAL FUNDING REPORT

**Funds awarded for**

April- June 2020  
$28,005,875

**Total funding to date**

FY2019 - 2020  
$56,281,475

## Research

**Veronica Antochevez Dexheimer Strickland, Physics**  
National Science Foundation  
*CAREER: Dense Phases in Neutron Stars*  
Continuation 07/01/18 - 06/30/23  
$85,000

**Lisa Bhungalia, Geography**  
American Council of Learned Societies  
"*From the American People" Aid, War, and the US Security State in Palestine*  
06/01/20 - 05/31/21  
$40,000

**Darwin Boyd, College of Aeronautics and Engineering**  
Subaward Ohio Space Grant Consortium /National Aeronautics and Space Administration  
*OSGC Student-Innovative-Creative-Hands-On-Project: Lunabotics Project at Kent State University*  
05/01/20 - 02/28/21  
$5,000

**James Campbell, Design Innovation Initiative**  
Rick Ferdig, Lifespan Development and Educational Sciences  
Hilary Kennedy, University Libraries  
Mark Mistur, Architecture and Environmental Design  
Kevin Pospichal, Architecture and Environmental Design  
Christopher Woolverton, Biostatistics/Epidemiology/Environmental Health  
Burton D. Morgan Foundation  
*Kent State’s Design Innovation Response to COVID-19*  
05/01/20 - 10/31/20  
$10,000

**James Campbell, Design Innovation Initiative**  
Rick Ferdig, Lifespan Development and Educational Sciences  
Hilary Kennedy, University Libraries  
Mark Mistur, Architecture and Environmental Design  
Kevin Pospichal, Architecture and Environmental Design  
Christopher Woolverton, Biostatistics/Epidemiology/Environmental Health  
United Way of Portage County  
*Kent State’s Design Innovation Response to COVID-19*  
05/01/20 - 08/31/20  
$3,000

**Gemma Casadesus Smith, Biological Sciences**  
Helen Piontkivska, Biological Sciences  
National Institute on Aging  
*Characterization of transcriptome changes in diet-induced progression to METS/T2D to identify earliest and sex-specific neurodegenerative foci for AD development*  
Continuation 06/01/20 - 04/30/21  
$186,969
Andrea Case, Biological Sciences
Christopher Blackwood, Biological Sciences
National Science Foundation
Collaborative: BEE: Ecological and evolutionary processes affecting the co-existence of close relatives

Kimberly Ann Cleveland, Nursing
Sigma Theta Tau International Honor Society of Nursing
Novel Coronavirus (COVID-19) KSU Community Survey

Yanhai Du, College of Aeronautics and Engineering
Rui Liu, College of Aeronautics and Engineering
D Blake Stringer, College of Aeronautics and Engineering
Subcontract Wright State Applied Research Corporation /Ohio Federal Research Network
A Hybrid Fuel Cell-Battery-Capacitor Power Source for UAS

Pamela Ferguson, Research and Evaluation Bureau
Richland Public Health
Richland County Community Health Assessment Survey

Michael Fisch, College of Aeronautics and Engineering
Jason Lorenzon, College of Aeronautics and Engineering
D Blake Stringer, College of Aeronautics and Engineering
Subcontract Youngstown Edison Incubator Corporation /Ohio Federal Research Network
Geometrically-Complex 3D Printed Antennas for UAVs

Susan Fisk, Sociology
National Science Foundation
Analysis of a Simple, Low-cost Intervention's Impact on Retention of Women in Computer Science

Christopher Flessner, Psychology
Amy Sato, Psychology
National Institute of Child Health and Human Development
The Food Allergy Superheroes Training (FAST) Program: Increasing Adherence to Food Allergy Safety Guidelines

Gregory Gibson, Sociology
Richard Adams, Sociology
Subcontract State of Minnesota /Centers for Disease Control and Prevention
Minnesota PRAMS

Gregory Gibson, Sociology
Richard Adams, Sociology
Subaward Indiana Department of Public Health /Centers for Disease Control and Prevention
Indiana PRAMS

Carla Goar, Sociology
American Sociological Association
Revisiting Race: White Adoptive Parents’ Narrative on Children and Race

Carrie Godwin Inaba, Lifespan Development and Educational Sciences
U.S. Department of Education
An Exploration of Brain Breaks to Enhance Attention Regulation and Instruction Uptake in Early Elementary
David Hacker, Trumbull Campus  
U.S. Geological Survey  
*Geologic Mapping of the Spry Intrusion and Associated Volcanic Rocks Within the Markagunt Mega-Scale Gravity Slide, Utah, dated 11/18/2019*

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

Mary Himmelstein, Psychology  
Subaward University of Connecticut /Weight Watchers  
*A Multi-national Comparison of Weight Stigma, Internalized Bias, and Coping Strategies Among Adults Engaged in Weight Management*

John Hoornbeek, Health Policy Management  
Bethany Lanese, Health Policy Management  
Akron Children's Hospital  
*Risk Reduction Research Initiative 2020*

John Hoornbeek, Health Policy Management  
Subaward Akron Children's Hospital through Georgia State University /The Robert Wood Johnson Foundation  
*Aligning Communities for Health and Wellbeing: Insights and Observations from Pathways Community HUB (PCH) Communities*

Anne Jefferson, Geology  
National Science Foundation  
*Geomorphic effects and distribution of anthropogenic debris in urban streams*

Ruoming Jin, Computer Science  
Subcontract New Jersey Institute of Technology /Qualcomm Technologies, Inc.  
*Detecting Human Behaviors from Smartphones using Federated Machine Learning in the Wild*

William Kalkhoff, Sociology  
Joshua Pollock, Sociology  
U.S. Department of Army  
*Team Perception and Performance Under Threat*

Declan Keane, Physics  
Irakli Chakaberia, Physics  
Subcontract Brookhaven National Laboratory /U.S. Department of Energy  
*Supporting and Augmenting the Time Projection Chamber (TPC) of the STAR Detector Via Software Improvements*

Darci Kracht, Mathematics  
National Security Administration  
*Pi Mu Epsilon National Meeting Student Travel Funding 2020-2021*

Manabu Kurokawa, Biological Sciences  
Farris Family Fund -Kent State University Foundation  
*Drug Resistance and Lipid Metabolism in Breast Cancer*
Oleg Lavrentovich, Advanced Materials Liquid Crystal Institute/Physics
Sergiy Shiyanovskii, Advanced Materials Liquid Crystals Institute
U.S. Department of Energy
Command of active and responsive elastomers by topological defects and patterns
Continuation 08/01/20 - 07/31/21 $325,000

Oleg Lavrentovich, Advanced Materials Liquid Crystal Institute/Physics
National Science Foundation
Dielectric Photomasks for Nanopatterning Arbitrary Molecular Orientations
Supplement 04/20/20 - 06/30/21 $59,999

Michael Lehman, Brain Health Reserach Institute/Biological Sciences
Lique Coolen, Brain Health Reserach Institute/Biological Sciences
Subaward West Virginia University /National Institute of Child Health and Human Development
Role of NKB in the control of GnRH secretion by ovarian steroids
Continuation 03/01/20 - 02/28/21 $191,423

John McDaniel, Health Sciences
Craig H. Neilsen Foundation
Home based electrical stimulation exercise during COVID-19
06/24/20 - 06/23/21 $10,000

Xiaozhen Mou, Biological Sciences
Subaward from University of Akron and The Ohio State University /Ohio Department of Higher Education
Removing Cyanotoxins in Drinking Water Plants: Best Strategy for When Saxitoxin and Anatoxin-a Present Alone or with Microcystin
01/01/20 - 06/30/20 $64,023

Devlin Mueller, Biological Sciences
Subaward Ponce Medical School Foundation, Inc. (PMSF) /National Institute on Minority Health and Health Disparities
Effects of early-life neglect and cocaine use on PTSD-like behaviors
03/01/20 - 02/28/21 $153,540

Fedor Nazarov, Mathematics
National Science Foundation
Collaborative Research: Weighted estimates with matrix weights and non-homogeneous harmonic analysis
Continuation 06/01/19 - 05/31/22 $76,065

Peter Palffy-Muhoray, Advanced Materials Liquid Crystal Institute/Mathematics
Subaward AlphaMicron /U.S. Air Force Research Laboratory
Electronically Dimmable Eye Protection Devices (EDEPD)
05/09/19 - 05/08/20 $35,000

Noel-Marie Plonski, Biological Sciences
National Institute of Mental Health
ADAR-editing landscape dysregulation in neuropsychiatric disorders
09/01/20 - 08/31/22 $29,830

Joshua Pollock, Sociology
William Kalkhoff, Sociology
U.S. Department of Army
Teamwork and Decision-Making Under Threat: Implementing an Immersive Virtual Reality Environment
06/01/20 - 05/31/21 $72,872
Wesley Raabe, English
Harriet Beecher Stowe Center
Uncle Tom's Cabin for Collected Works of Harriet Beecher Stowe

Mary Ann Raghanti, Anthropology
Melissa Edler, Biomedical Sciences/Anthropology
Subaward Florida International University/National Institute of Environmental Health Sciences
Cholinergic Neuron Degeneration in Mn Neurotoxicity

Katherine Rawson, Psychology
Subaward Einstein Institute/National Institute on Deafness and Other Communication Disorders
Retrieval Practice Principles: A Theory of Learning for Aphasia Rehabilitation

Lydia Rose, East Liverpool
Grace Evangelical Lutheran Church
Purchase Wearable Physical Activity Monitors

Denice Sheehan, Nursing
Pamela Stephenson, Nursing
Christopher Was, Psychology
National Institute of Nursing Research
Interactions Among Adolescents with a Parent in Hospice and the Hospice Care Team

Alison Smith, Geology
National Science Foundation
Collaborative Research: Neotoma Paleoecology Database, a Multi-Proxy, International, Community-Curated Data Resource for Global Change Research

Gregory Smith, Lifespan Development and Educational Sciences
National Institute on Aging
Social Intelligence training for custodial grandmothers and their adolescent grandchildren

Melody Tankersley, Graduate Studies
Nola Daley, Psychology
National Science Foundation
NSF Graduate Research Fellowship Program - Nola Daley

Darlene Unger, Lifespan Development and Educational Sciences
Subaward Ohio Department of Education/U.S. Department of Education
Ohio Longitudinal Transition Study

John West, Arts and Sciences
Subcontract Aerodynamic Technologies, LLC/U.S. Office of Naval Research
Development of High-Resolution Global Wall Shear Stress Measurement Technique for use in Hypersonic Flow Studies

Artem Zvavitch, Mathematics
Dmitry Ryabogin, Mathematics
National Science Foundation
Harmonic Analysis in Convex Geometry
Instruction

Javed Khan, Computer Science  
Philip Thomas, IT Enterprise Research Technology & Support  
Ohio Department of Higher Education  
*Choose Ohio First CS Scholarships: Building High Demand 21st-Century Workforce Development in Big-Data, Cyber Security & Privacy, AI, Smart Systems and Devices, and other cutting edge Computer Science*

Other Sponsored Activity

Brenda Burke, Financial Aid  
U.S. Department of Education  
*Kent State University CARES for Students*

Tameka Ellington, Fashion Design and Merchandising  
Sarah Rogers, Museum  
Joseph Underwood, Art  
National Endowment for the Arts  
*Textures: The History and Art of Black Hair*

Michelle Ewing, Journalism and Mass Communication  
Middle Tennessee State University  
*First Amendment Rights Education and Outreach*

Rick Ferdig, Lifespan Development and Educational Sciences  
Continuation  
Subaward Cleveland Metroparks /U.S. Department of Agriculture  
*Dissemination of a mobile and GIS-based app to address tree health*

Susan Grogan-Johnson, Health Sciences  
Greenfield Village Exempted Schools  
*Telepractice - Greenfield, Year 10*

Susan Grogan-Johnson, Health Sciences  
Montpelier Exempted Village Schools  
*Telepractice - Montpelier, Year 10*

Virginia Hall, University Libraries  
Michael Hawkins, University Libraries  
Ohio Humanities Council  
*Saving the Sanborn Insurance Maps: A Digitization Project*

Constance Hawke, Compliance and Risk Management  
David Poluga, Compliance and Risk Management  
Federal Aviation Administration  
*Kent State University Airport Support under the CARES Act*

Constance Hawke, Compliance and Risk Management  
Ohio Department of Transportation  
*Rehabilitate Runway Lighting at Kent State University Airport*

Deric Kenne, Health Policy Management  
Substance Abuse and Mental Health Services Administration  
*More Aware Initiative*
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<tr>
<th>Name</th>
<th>Institution</th>
<th>Start Date</th>
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<td>Annette Kratsoski</td>
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<td>Jacqueline Ruller</td>
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<td>Younhun Chae</td>
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<td>Angela Guercio</td>
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<td>Regionally Aligned Priorities in Delivering Skills (RAPIDS IV) for Northeast/Central Ohio Region</td>
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<td>Kathryn Walley</td>
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<td>NWP/USDINPS: 2020-2021 NWP-KSU/Cuyahoga Valley National Park Service Collaboration</td>
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<td>Stephen Schillig</td>
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<td>Theresa Schwarz</td>
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<td>Roy Messing</td>
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<td>Quilian Riano</td>
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<td>Designing the New Economy/Barrier-Free Cleveland</td>
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<td>COVID-19 Supplemental Funding for Ohio SBDC at Kent State University CAE</td>
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<td>William Southards</td>
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<td>Operation of a Small Business Development Center (SBDC) at KSU-CAEST FY2020 - Federal Funding</td>
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Cassandra Storlie, Lifespan Development and Educational Sciences 07/01/20 - 06/30/21 $22,046
Bridget Mulvey, Teaching, Learning and Curriculum Studies
Martha Holden Jennings Foundation
ELLOS

Wendy Turner, WKSU 04/27/20 - 06/30/20 $75,000
Corporation for Public Broadcasting
CARES Supplemental CPB EFT Grant for WKSU 2020

Wendy Umberger, Nursing 07/01/19 - 06/30/20 $10,595
Subaward Northeast Ohio Medical University /Health Resources and Services Administration
Primary Care Training and Enhancement

Cindy Widuck, Social and Behavioral Sciences 05/01/20 - 11/30/20 $200
OAGC Foundation
Ready Set Grow Coalition

Llancyllius Williams, Geauga Campus 05/04/20 - 10/31/20 $20,000
The Cleveland Foundation
Zoom room in Burton, Ohio campus and establishment of an Emergency Relief Fund that supports students in Lake and Geauga counties

Sonya Williams, Diversity, Equity and Inclusion Continuation 06/01/20 - 05/31/21 $569,483
U.S. Department of Education
Kent State University Upward Bound Classic 2017-22

Amanda Woodyard, Community Engaged Learning 07/01/20 - 06/30/21 $2,000
Portage Foundation
Campus Kitchen COVID-19 Response

COMPARATIVE DATA

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<tr>
<th>Fiscal Year to Date</th>
<th>FY 2018 - 2019</th>
<th>FY 2019 - 2020</th>
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<tr>
<td>Total Funding</td>
<td>$ 33,097,065</td>
<td>$ 56,281,476*</td>
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<td>Research</td>
<td>$ 23,166,136</td>
<td>$ 24,423,131</td>
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<td>Instruction</td>
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<tr>
<td>Other Activity</td>
<td>$ 8,363,181</td>
<td>$ 27,423,219</td>
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*CARES Act funding received in April and May totaled $19,307,244. Total funding for FY20 without these funds is $36,974,231.60, with "Other Activity" funding then totaling $8,115,974.83