KENT STATE UNIVERSITY
Research and Sponsored Programs
Paul DiCorleto, Vice President for Research

EXTRAMURAL FUNDING REPORT

<table>
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<tr>
<th>Funds awarded for April-June 2019</th>
<th>Total funding to date FY2018 - 2019</th>
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<td>$9,552,399</td>
<td>$33,097,065</td>
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Research

Kizzy Albritton, Lifespan Development and Educational Sciences
Martha Holden Jennings Foundation
Kent Preschool Early Literacy

Carmen Almasan, Physics
National Science Foundation
Electronic and Magnetic Phenomena in Heavy-Fermion and Iron-Based Superconductors

Veronica Antochevez Dexheimer Strickland, Physics
National Science Foundation
CAREER: Dense Phases in Neutron Stars
Continuation

Darwin Boyd, College of Aeronautics and Engineering
ShinMin Song, College of Aeronautics and Engineering
Subaward Ohio Space Grant Consortium /National Aeronautics and Space Administration
2019 NASA Robotic Mining Competition

Kathleen Campana, Library and Information Science
Institute of Museum and Library Services
Project VOICE (Value-sensitive design of Outcomes Informing Community Engagement) for Libraries

Kathleen Campana, Library and Information Science
Marianne Martens, Library and Information Science
Subaward State Library of Ohio /Institute of Museum and Library Services
Working Towards a Smarter Ohio: Supporting Family Engagement Through a Strong Preschool-Library Partnership

Kuldeep Chaudhary, Geology
Subaward AquaNRG Consulting Inc. /National Science Foundation
SBIR Phase I: Data-Driven Simulation Module for Prediction of Physical-Chemical Properties of Porous Material (SBIR Subaward)

Robert Clements, Biological Sciences
Songping Huang, Chemistry
Jennifer McDonough, Biological Sciences
National Institute of Biomedical Imaging and Bioengineering
Multimodal probes for imaging neuroendocrine circuits and the neurovasculature

Continuation
Windy Cole, College of Podiatric Medicine  
SerenaGroup Inc.  
**Natrox DFU Trial (NOW.T-001)**  
James C Connors, College of Podiatric Medicine  
Duane Ehredt, College of Podiatric Medicine  
Mark Hardy, College of Podiatric Medicine  
OCPM Foundation  
The Pathogenesis of Nonunions: A Gene Expression Study Comparing Charcot Neuroarthropathy to Elective Arthrodesis  
Amy Damrow, Stark Campus  
Subaward Bowie State University/National Endowment for the Humanities  
Other People's Stories: Dialogue Across Distance and Difference  
Patrick Dillon, Stark Campus  
Subaward University of Memphis/Substance Abuse and Mental Health Services Administration  
**BVI SAMHSA 2018 MAT-PDOA**  
Patrick Dillon, Stark Campus  
Subaward University of Memphis/Substance Abuse and Mental Health Services Administration  
**Mending Hearts SAMHSA 2018**  
Qunxing Ding, East Liverpool Heritage-WTI, Inc.  
The Earth Day Environmental Justice Conference  
Metin Eren, Anthropology  
Ohio History Connection  
**Berlin Lake Archaeological Survey**  
Metin Eren, Anthropology  
Portage County Educational Service Center  
Tinkers Creek Greenway Project Phase I: Archaeological Investigation  
Gregory Gibson, Sociology  
Anthony Vander Horst, Sociology  
Subaward Indiana Department of Public Health/Centers for Disease Control and Prevention  
Pregnancy Risk Assessment Monitoring Survey (PRAMS)  
Continuation 05/01/19 - 09/30/19 $31,631  
Gregory Gibson, Sociology  
Anthony Vander Horst, Sociology  
Subaward Indiana Department of Public Health/Health Resources and Services Administration  
Pregnancy Risk Assessment Monitoring Survey (PRAMS)  
Continuation 05/01/19 - 09/30/19 $161,866  
Qiang Guan, Computer Science  
Subaward Triad National Security, LLC/U.S. Department of Energy  
Develop, Improve and Perform Research with the Open Sourced Tool PFSEF1 Related to Error Propagation  
Continuation 05/01/19 - 04/30/20 $122,389
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<tr>
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<th>Department/Institute</th>
<th>Start Date</th>
<th>End Date</th>
<th>Amount</th>
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<td>Qiang Guan, Computer Science</td>
<td>Subaward Triad National Security, LLCU.S. Department of Energy</td>
<td>Additional</td>
<td>05/13/19 - 08/31/21</td>
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<td>John Gunstad, Psychology</td>
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<td>David Hacker, Trumbull Campus</td>
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<td>Jeffrey Hallam, Social</td>
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<td>Virginia Hall, University</td>
<td>Haley Antell, University Libraries</td>
<td>05/01/19 - 04/30/20</td>
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<td>Antal Jakli, Advanced</td>
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<td>Oleg Lavrentovich, Physics</td>
<td>Subaward University of Akron /National Science Foundation</td>
<td>Type II: The University of Akron I-Corps Site - Fast Optical Switch</td>
<td>08/15/19 - 07/31/22</td>
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<td>Oleg Lavrentovich, Physics</td>
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<td>Active Colloids with Tunable Interactions in Liquid Crystals</td>
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<td>William Lechner, Psychology</td>
<td>Subaward Brown University /National Institute on Drug Abuse</td>
<td>Health Effects of the Standardized Research E-Cigarette for Harm Reduction in Smokers with HIV</td>
<td>05/01/19 - 04/30/20</td>
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<tr>
<td>Name</td>
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<td>Jonathan Maletic</td>
<td>Computer Science</td>
<td>REU Supplement: CI-New: Collaborative Research: An Infrastructure that Combines Eye Tracking into Integrated Development Environments to Study Software Development and Program Comprehension</td>
<td>06/01/17 - 05/31/20</td>
<td>$10,000</td>
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<td>Mark Manley</td>
<td>Physics</td>
<td>Investigations of Baryon Spectroscopy via Electromagnetic and Hadronic Scattering</td>
<td>08/15/19 - 08/14/20</td>
<td>$114,000</td>
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<td>Aleisha Moore</td>
<td>Biological Sciences</td>
<td>The role of Kisspeptin/Neurokinin B/Dynorphin (KNDy) neurons in the pathogenesis of polycystic ovarian syndrome</td>
<td>01/01/19 - 08/31/19</td>
<td>$924</td>
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<tr>
<td>Aleisha Moore</td>
<td>Biological Sciences</td>
<td>The role of Kisspeptin/Neurokinin B/Dynorphin (KNDy) neurons in the pathogenesis of polycystic ovarian syndrome</td>
<td>01/01/19 - 08/31/19</td>
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<td>Bradley Morris</td>
<td>Lifespan Development and Educational Sciences</td>
<td>Food for Thought: Igniting, Engaging, and Measuring Family STEM Learning Using a Food Lab</td>
<td>07/01/19 - 06/30/22</td>
<td>$854,026</td>
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<td>Fedor Nazarov</td>
<td>Mathematics</td>
<td>Collaborative Research: Weighted estimates with matrix weights and non-homogeneous harmonic analysis</td>
<td>06/01/19 - 05/31/22</td>
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<td>Angela Neal-Barnett</td>
<td>Psychology</td>
<td>Human Origins and Comparative Neurochemistry</td>
<td>04/01/19 - 03/31/20</td>
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<td>Mary Ann Raghanti</td>
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<td>Cholinergic Neuron Degeneration in Mn Neurotoxicity</td>
<td>05/15/19 - 04/30/22</td>
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<td>Peter Palfiy-Muhoray</td>
<td>Advanced Materials Liquid Crystal Institute/Chemical Physics</td>
<td>Type II: The University of Akron I-Corps Site - Shear Force Mat</td>
<td>02/22/19 - 02/21/20</td>
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<td>Hiroshi Yokoyama</td>
<td>Advanced Materials Liquid Crystal Institute/Physics</td>
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<td>Subaward University of Akron /National Science Foundation</td>
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<tr>
<td>Mary Ann Raghanti</td>
<td>Anthropology</td>
<td>Human Origins and Comparative Neurochemistry</td>
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<td>Melissa Edler</td>
<td>Biomedical Sciences/Anthropology</td>
<td>Cholinergic Neuron Degeneration in Mn Neurotoxicity</td>
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<tr>
<td>Mary Ann Raghanti</td>
<td>Anthropology</td>
<td>The Fruits of Empire: Representations of Food in America Art and Culture, 1865-1965</td>
<td>09/01/19 - 08/31/22</td>
<td>$24,000</td>
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<td>Shana Reisig</td>
<td>Art</td>
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Adam Roberts, Music
Farris Family Fund -Kent State University Foundation
Recording Project: Book of Doubt/Book of Faith  
09/01/19 - 08/31/22 $24,000

Lydia Rose, East Liverpool
Subaward Ohio Organizing Collaborative/The Robert Wood Johnson Foundation
Interdisciplinary Research Leaders Cohort Three – Social and Economic Determinants in Rural America – Ohio River Valley  
Supplement 09/25/18 - 09/30/19 $6,333

Dmitry Ryabogin, Mathematics
Simons Foundation
On Busemann-Petty problems and other questions on projections and sections of convex bodies  
09/01/19 - 08/31/24 $42,000

Gokarna Sharma, Computer Science
National Science Foundation
EAGER: Transactional Memory Foundations for Distributed Multiprocessor Systems  
10/01/19 - 09/30/21 $199,977

Alison Smith, Geology
National Science Foundation
Collaborative Research: Neotoma Paleoecology Database, Community-led Cyberinfrastructure for Global Change Research  
Continuation 06/01/19 - 05/31/20 $13,923

Gregory A Smith, Stark Campus
Robert Hamilton, Stark Campus
Herbert W. Hoover Foundation
Flood Risk Reduction Benefits of Florida's Mangroves During Hurricane Irma  
07/01/19 - 06/30/20 $100,000

Gregory Smith, Lifespan Development and Educational Sciences
National Institute on Aging
Social Intelligence training for custodial grandmothers and their adolescent grandchildren  
Continuation 06/01/19 - 05/31/20 $553,043

Anthony Tosi, Anthropology
C. Owen Lovejoy, Anthropology
Richard Meindl, Anthropology
Mary Ann Raghanti, Anthropology
National Science Foundation
IRES: Track I: Insights into human evolution gained from genetic, morphological, and neuroscientific analyses at the Primate Research Institute of Kyoto University, Japan  
07/01/19 - 06/30/22 $298,686

Qi-Huo Wei, Advanced Materials Liquid Crystal Institute/Physics
National Science Foundation
Dielectric Photomasks for Nanopatterning Arbitrary Molecular Orientations  
Supplement 05/17/19 - 06/30/20 $8,000

Deng-Ke Yang, Advanced Materials Liquid Crystal Institute/Physics
The Sherwin-Williams Company
Near Infrared Reflector Based on Cholesteric Liquid Crystals  
09/01/19 - 08/31/22 $180,000

Deng-Ke Yang, Advanced Materials Liquid Crystal Institute/Physics
BOE Technology Group Co. LTD
Novel Liquid Crystal Displays  
05/10/19 - 05/09/22 $270,000
Hiroshi Yokoyama, Advanced Materials Liquid Crystal Institute/Physics
National Aeronautics and Space Administration
Structure and Dynamics of Monodisperse Liquid Crystal Domains created on Suspended, Molecularly-Thin Smectic Films using Sub-Femtoliter Inkjet Technology
Continuation 12/30/16 - 12/29/21 $25,000

Ye Zhao, Computer Science
Using Visualization for Explainable Machine Learning
05/16/19 - 09/30/19 $13,000

Ye Zhao, Computer Science
Full Stack Development for Scientific Data Analysis and Visualization
05/28/19 - 08/23/19 $14,348

Melissa Zullo, Biostatistics/Epidemiology/Environmental Health
University Hospitals Cleveland Medical Center
Services Agreement: Graduate Assistant Support for MAGMA and MAGMA Add on Studies
Continuation 06/01/19 - 07/31/19 $7,377

Instruction

Brian Baer, Modern and Classical Language Studies
National Security Administration
KSU STARTALK: Russian and Chinese Student Academy
04/26/19 - 03/31/20 $90,000

Other Sponsored Activity

Craig Berger, Community Engaged Learning
Bringing Theory To Practice
Tools for Students’ Civic Empowerment
05/01/19 - 09/15/20 $1,750

Adam Cinderich, University College Academic Diversity Success
Pamela Ferguson, Research and Evaluation Bureau
U.S. Department of Education
Student Support Services Program at Kent State University
Continuation 09/01/19 - 08/31/20 $509,759

Christopher Coles, Music
Peg's Foundation
Nine Lives: A Multimedia Production by Christopher Coles
06/01/19 - 12/31/19 $10,000

Karen Gracy, Library and Information Science
Virginia Hall, University Libraries
Heather Soyka, Library and Information Science
Subaward State Library of Ohio /Institute of Museum and Library Services
Mobile Digitization for Community Memory Projects in Northeast Ohio
08/15/19 - 08/14/19 $74,270

Susan Grogan-Johnson, Health Sciences
Montpelier Exempted Village Schools
Telepractice - Montpelier, Year 9
05/10/19 - 06/30/19 $96,216

Justin Hilton, Office of the Provost
LeBron James Family Foundation
Flash P’ACT 2019

6
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<th>Name</th>
<th>University/Program/Project</th>
<th>Start Date</th>
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<td>Viveka Jenks, College of Podiatric Medicine</td>
<td>OCPM Foundation Kent State University College of Podiatric Medicine Pre-matriculation Program 2019</td>
<td>04/06/19 - 09/13/19</td>
<td><strong>$8,000</strong></td>
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<td>Annette Kratoski, Education, Health, &amp; Human Services</td>
<td>Todd Hawley, Teaching, Leadership and Curriculum Studies Marsha Holden Jennings Foundation May 4 1970 &amp; Now: Voices for Change</td>
<td>04/01/19 - 03/31/20</td>
<td><strong>$26,290</strong></td>
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<td>Marianne Martens, Library and Information Science</td>
<td>Joanne Caniglia, Teaching, Learning and Curriculum Studies Gretchen Rinnert, Visual Communication Design Subaward American University of Nigeria /U.S. Agency for International Development Addressing Education in Northeast Nigeria - Adamawa and Gombe States</td>
<td>04/01/19 - 03/01/20</td>
<td><strong>$660,674</strong></td>
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<td>Linda Robertson, Center for International and Intercultural Education</td>
<td>Paul Haridakis, Communication Studies Martin Jencius, Lifespan Development and Educational Sciences Subaward International Research &amp; Exchange Board /U.S. Department of State Fall 2019 TEA program</td>
<td>04/01/19 - 12/01/19</td>
<td><strong>$205,813</strong></td>
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<td>Patricia Robinson, Diversity, Equity and Inclusion</td>
<td>Continuation U.S. Department of Education Kent State University Upward Bound Math-Science 2017-22</td>
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<td>Patricia Robinson, Diversity, Equity and Inclusion</td>
<td>Continuation U.S. Department of Education Kent State University Upward Bound Health Professions</td>
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<td>Alexa Sandmann, Teaching, Learning and Curriculum Studies</td>
<td>Kathryn Walley, Teaching, Learning and Curriculum Studies Subaward National Writing Project /United States Department of Interior National Park Service 2019-20 NWP-KSU/Cuyahoga Valley National Park Service Collaboration</td>
<td>04/01/19 - 03/31/20</td>
<td><strong>$3,500</strong></td>
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<td>Theresa Schwarz, Urban Design Center/Architecture and Environmental Design</td>
<td>The Cleveland Foundation Creative Fusion Supplemental Grant - Detroit Superior Bridge Squidsoup Installation</td>
<td>06/01/19 - 08/31/19</td>
<td><strong>$6,500</strong></td>
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<td>Ricardo Sepulveda, Music</td>
<td>Kulas Foundation Kent/Blossom Music Festival Kulas Visiting Artists 2019</td>
<td>03/01/19 - 08/31/19</td>
<td><strong>$15,000</strong></td>
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<td>Cassandra Storlie, Lifespan Development and Educational Sciences</td>
<td>Bridget Mulvey, Teaching, Learning and Curriculum Studies Martha Holden Jennings Foundation ELLAS (Education and Latina Leadership Academy in the Sciences)</td>
<td>06/01/19 - 05/31/20</td>
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<td>Andrew Tonge, Mathematics</td>
<td>Ohio Department of Higher Education Strong Start to Finish CLASS Grant</td>
<td>04/16/19 - 12/31/19</td>
<td><strong>$19,000</strong></td>
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Wendy Umberger, Nursing, 07/01/19 - 06/30/22, $165,000
Lisa Onesko, Nursing
Peg's Foundation
Expanding the base of PMH APRNs in northeast Ohio

Jasmina Waters, Diversity, Equity and Inclusion, Continuation 06/01/19 - 05/31/20, $569,483
U.S. Department of Education
Kent State University Upward Bound Classic 2017-22

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<th>COMPARATIVE DATA</th>
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