

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

**EXTRAMURAL FUNDING REPORT**

**Funds awarded for**  
**April - June 2021**  
**\$5,333,177**

**Total funding to date**  
**FY2020 - 2021**  
**\$31,390,334**

**Research**

Veronica Antochavez Dexheimer Strickland, Physics National Science Foundation <i>CAREER: Dense Phases in Neutron Stars</i>	Continuation	07/01/18 - 06/30/23	\$85,000
Veronica Antochavez Dexheimer Strickland, Physics National Science Foundation <i>CAREER: Dense Phases in Neutron Stars</i>	Supplement	07/01/18 - 06/30/23	\$39,999
Timothy Assal, Geography U.S. Geological Survey <i>Monitoring the Vegetation Dynamics of Shrubland Ecosystems with Respect to Ecological Disturbance and Management Actions</i>	Supplement	09/23/19 - 09/22/22	\$27,531
Michelle Bebbler, Anthropology Farris Family Fund -Kent State University Foundation <i>Searching for North America's First Stone Age Americans at Stow Rockshelter, Ohio</i>		09/01/21 - 08/31/24	\$24,000
Yossef Ben-Porath, Psychology University of Minnesota <i>Further Development of MMPI-3</i>		07/01/21 - 06/30/22	\$125,000
Christopher Blackwood, Biological Sciences National Science Foundation <i>EAGER: Collaborative research: Shifting control from negative plant-microbe feedback to nutrient limitation: predictions from dominant tree traits and ecosystem nutrient economies</i>	Supplement	06/15/18 - 05/31/22	\$20,700
Philip Bos, Advanced Materials Liquid Crystal Institute/Physics Facebook Technologies, LLC <i>Gradient Index Liquid Crystal: Discrete Electrode Design</i>		06/01/21 - 03/01/22	\$100,000
Philip Bos, Advanced Materials Liquid Crystal Institute/Physics Subcontract Defense Engineering Corporation /U.S. Air Force Research Laboratory <i>Beam Steering Demonstration</i>	Additional	11/09/20 - 11/09/21	\$42,000
Karin Coifman, Psychology Douglas Delahanty, Psychology John Gunstad, Psychology National Institute of Mental Health <i>Unpacking Emotion Inflexibility and Prospective Prediction of Affective Disease</i>	Additional	01/01/21 - 12/31/21	\$53,244

Karin Coifman, Psychology Douglas Delahanty, Psychology John Gunstad, Psychology National Institute of Mental Health <i>Administrative Supplement: Unpacking Emotion Inflexibility and Prospective Prediction of Affective Disease</i>	Additional	01/01/21 - 12/31/21	\$13,166
Metin Eren, Anthropology Michelle Bebbler, Anthropology Michael Fisch, College of Aeronautics and Engineering Michael Kavulic, Research and Sponsored Programs Trent True, College of Aeronautics and Engineering Michael Wilson, Anthropology Subaward The Ohio State University /Ohio Department of Higher Education <i>Ohio I-Corps Program: Primal Points</i>		05/01/21 - 11/30/21	\$12,500
Gregory Gibson, Sociology Richard Adams, Sociology Anthony Vander Horst, Sociology Subaward Maryland Department of Health /Centers for Disease Control and Prevention <i>Maryland PRAMS</i>		05/01/21 - 04/30/22	\$61,106
Gregory Gibson, Sociology Richard Adams, Sociology Subaward Indiana Department of Public Health /Centers for Disease Control and Prevention <i>Pregnancy Risk Assessment Monitoring Survey (PRAMS)</i>	Additional	05/01/21 - 06/30/21	\$79,687
David Hacker, Trumbull Campus National Science Foundation <i>Collaborative Research: Moving mountains: timing and emplacement of the Marysville gravity slide</i>		07/01/21 - 06/30/24	\$210,394
Elda Hegmann, Advanced Materials Liquid Crystal Institute/Biological Sciences Farris Family Fund -Kent State University Foundation <i>Biodegradable and Biocompatible Liquid Crystal Elastomers as bio-inks for 3D printable tissues</i>		09/01/21 - 08/31/24	\$24,000
Daniel Holm, Geology Herbert W. Hoover Foundation <i>Acquisition of a dual spectrometer for measurement of irradiance, radiance, and surface reflectance</i>		05/01/21 - 08/31/22	\$30,000
John Hoornbeek, Health Policy Management Subaward Georgia State University /The Robert Wood Johnson Foundation <i>Aligning Systems for Health Rapid-Cycle Research and Evaluation</i>		03/01/21 - 08/31/21	\$75,000
Anne Jefferson, Geology National Science Foundation <i>Collaborative Research: Connecting local stormwater decision-making to environmental outcomes</i>	Supplement	06/01/18 - 05/31/22	\$12,000
Kimberly Laurene, Health Policy Management Deric Kenne, Health Policy Management Substance Abuse and Mental Health Services Administration <i>More Aware</i>		09/30/21 - 09/29/22	\$102,000

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>		07/01/21 - 06/30/24	\$161,191
Jonathan Maletic, Computer Science National Science Foundation <i>REU Supplement: CCRI: ENS: Collaborative Research: Enabling Automated Language Support for the srcML Infrastructure</i>	Supplement	05/01/21 - 06/30/23	\$10,000
Hanbin Mao, Chemistry National Science Foundation <i>Single-Molecule Mechanochemical Sensing for Multiplexed Tasks: A Topological Strategy - REU Supplement</i>	Supplement	08/15/21 - 07/31/22	\$14,000
Kristen Marcussen, Sociology National Science Foundation <i>Understanding Social Stigma, Stigma Resistance and the Mental Illness Identity</i>		07/15/21 - 06/30/22	\$213,000
Hossein Mirinejad, College of Aeronautics and Engineering Mohammed Ali, College of Aeronautics and Engineering Subaward University of Akron /National Science Foundation <i>Type II: The University of Akron I-Corps Site</i>		03/12/21 - 02/28/22	\$2,500
Bradley Morris, Lifespan Development and Educational Sciences John Dunlosky, Psychology National Science Foundation <i>Food for Thought: Igniting, Engaging, and Measuring Family STEM Learning Using a Food Lab</i>	Continuation	07/01/19 - 06/30/22	\$436,692
Devin Mueller, Biological Sciences Subaward Ponce Medical School Foundation, Inc. (PMSF) /National Institute on Minority Health and Health Disparities <i>Effects of early-life neglect and cocaine use on PTSD-like behaviors</i>		03/01/21 - 02/28/22	\$105,204
Fedor Nazarov, Mathematics National Science Foundation <i>Collaborative Research: Weighted estimates with matrix weights and non-homogeneous harmonic analysis</i>	Continuation	06/01/19 - 05/31/22	\$75,425
Elena Novak, Teaching, Learning and Curriculum Studies Bridget Mulvey, Teaching, Learning and Curriculum Studies Shannon Navy, Teaching, Learning and Curriculum Studies Subaward Kent City School District /Martha Holden Jennings Foundation <i>Elementary Design for 3D STEM</i>		07/01/21 - 05/30/22	\$14,631
Joseph Ortiz, Geology Subaward Ohio Space Grant Consortium /National Aeronautics and Space Administration <i>Ohio Space Grant Consortium Summer Internship 2021</i>		05/12/21 - 08/21/21	\$9,000
Joseph Ortiz, Geology Florida Department of Environmental Protection <i>Remote sensing validation of benthic cover in Biscayne Bay</i>		05/03/21 - 06/30/21	\$60,380

Peter Palffy-Muhoray, Advanced Materials Liquid Crystal Institute/Mathematics Subaward University of Massachusetts, Amherst /U.S. Office of Naval Research <i>Photomechanical Material Systems: From Molecules to Devices</i>	Continuation	06/01/18 - 05/31/23	\$240,000
Helen Piontkivska, Biological Sciences Subaward University of Florida /National Institute on Aging <i>Mechanisms of Gonadotropin Action on Cognition and Neuronal Remodeling in Aging and Alzheimer's Disease</i>		04/15/21 - 03/31/22	\$74,456
Shawn Rohlin, Economics Subaward University of Akron /Open Road Renewables <i>Economic Impact Study for Open Road Solar Project</i>		12/31/20 - 12/30/22	\$3,500
Denice Sheehan, Nursing Pamela Stephenson, Nursing Christopher Was, Psychology National Institute of Nursing Research <i>Interactions Among Adolescents with a Parent in Hospice and the Hospice Care Team</i>	Continuation	05/01/21 - 04/30/22	\$227,421
Tao Shen, College of Aeronautics and Engineering Subaward Gateway Biotechnology, Inc. /National Institute on Deafness and Other Communication Disorders <i>An Automated Shuttlebox Multi-System for Sound-based Avoidance Behavior</i>		05/20/21 - 08/30/21	\$20,000
Loral Showalter, Biological Sciences Elsa U. Pardee Foundation <i>A novel immunopharmacological approach for pancreatic cancer</i>		10/01/21 - 09/30/22	\$109,872
Alison Smith, Geology National Science Foundation <i>Collaborative Research: Neotoma Paleoecology Database, a Multi-Proxy, International, Community-Curated Data Resource for Global Change Research</i>	Continuation	06/01/20 - 05/31/23	\$8,931
Pamela Stephenson, Nursing Tina Saunders, Nursing Sigma Theta Tau International Honor Society of Nursing <i>A Grounded Theory Study of the Grief Process in Women who Experienced Perinatal Loss Prior to 1980</i>		06/01/21 - 05/31/22	\$1,000
Michael Strickland, Physics Subaward Wayne State University /National Science Foundation <i>CSSI: Frameworks: X-Ion Collisions with a Statistically and Computationally Advanced Program Envelope (X-SCAPE)</i>	Continuation	07/01/20 - 06/30/22	\$132,495
Rafaela Takeshita, Anthropology The Wenner-Gren Foundation <i>Uncovering Adrenarche: neuroendocrine basis of human longevity</i>		07/01/21 - 06/30/22	\$20,000
Darlene Unger, Lifespan Development and Educational Sciences Subaward Ohio Department of Education /U.S. Department of Education <i>Ohio Longitudinal Transition Study FY 14/15 - FY 19/21 Extension</i>	Continuation	07/01/21 - 09/30/21	\$95,000

David Ward, Biological Sciences Oscar Rocha, Biological Sciences National Science Foundation <i>Collaborative Research: Scale-Dependent Processes as the Drivers for Understanding Range- and Niche-Expansion in a Widespread Native Species</i>	Continuation	07/15/19 - 06/30/22	\$174,509
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He Yin, Geography National Aeronautics and Space Administration <i>The effects of the Syrian civil war on cropland in the eastern Mediterranean region</i>		04/21/21 - 04/20/24	\$61,707
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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 - 12/29/21	\$21,000
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## Instruction

Lique Coolen, Brain Health Resesarch 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 <i>Choose Ohio First Scholar Program at Kent State University</i>		05/20/21 - 06/30/26	\$81,714
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Javed Khan, Computer Science Philip Thomas, IT Enterprise Research Technology & Support Ohio Department of Higher Education <i>Choose Ohio First CS Scholarships: Building High Demand 21st-Century Workforce Development in Big-Data, Cyber Security &amp; Privacy, AI, Smart Systems and Devices, and other cutting edge Computer Science</i>	Continuation	04/01/20 - 05/31/25	\$294,933
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Joseph Ortiz, Geology Subaward Ohio Space Grant Consortium /National Aeronautics and Space Administration <i>Ohio Space Grant Consortium Junior/Senior Scholarships and Internships - AY21/22</i>		08/15/21 - 05/31/22	\$7,500
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Joseph Ortiz, Geology Subaward Ohio Space Grant Consortium /National Aeronautics and Space Administration <i>Ohio Space Grant Consortium Education Scholarship AY21/22</i>		08/15/21 - 05/31/22	\$2,000
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Joseph Ortiz, Geology Subaward Ohio Space Grant Consortium /Ohio Department of Higher Education <i>Ohio Space Grant Consortium State-Funded Scholarships - AY21/22</i>		08/15/21 - 05/31/22	\$3,500
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## Other Sponsored Activity

Sonia Alemagno, College of Public Health Justin Hilton, Office of the Provost Dana Lawless-Andric, Diversity, Equity and Inclusion United Way of Summit & Medina <i>Akron Public Schools-Kent State University Rising Public Health Leaders Pathways Program</i>	04/01/21 - 03/31/22	\$88,000
Kevin Dilley, Journalism and Mass Communication Jeffrey Fruit, Journalism and Mass Communication Subaward Dow Jones News Fund /The Robert Wood Johnson Foundation <i>Kent State Scholastic Journalism Summer Workshop: Kids and COVID-19</i>	04/01/21 - 10/01/21	\$6,000
Susan Grogan-Johnson, Health Sciences Greenfield Village Exempted Schools <i>Greenfield, Year 11</i>	08/16/21 - 08/15/22	\$77,046
Susan Grogan-Johnson, Health Sciences Montpelier Exempted Village Schools <i>Telepractice - Montpelier, Year 11</i>	08/16/21 - 08/15/22	\$75,922
Constance Hawke, Compliance and Risk Management David Poluga, Compliance and Risk Management Federal Aviation Administration <i>Airport Coronavirus Relief Grant Program (ACRGP)</i>	05/14/21 - 05/13/25	\$13,000
Aloysius Kasturiarachi, Stark Campus Mathematical Association of America <i>Stark County Summer Math Academy</i>	04/06/21 - 08/31/22	\$5,000
Melanie Knowles, Facilities Planning and Operations Larry Emling, Parking Services Carmine Ricchetti, Office of the University Architect Ohio Environmental Protection Agency <i>KSU EV Charging Station Proposal (Liquid Crystals Materials Science Building)</i>	05/24/21 - 12/31/27	\$45,000
Melanie Knowles, Facilities Planning and Operations Ohio Environmental Protection Agency <i>Eastway Grind2Energy Food Waste Diversion</i>	07/01/21 - 06/30/22	\$94,388
Lisa Onesko, Nursing Andrea Warner Stidham, Nursing Jonas Nursing and Veterans Healthcare <i>Jonas Scholar DNP Program - Psychology/Mental Health</i>	08/01/21 - 07/31/23	\$15,000
Jessica Paull, Salem Campus Marion G. Resch Foundation <i>Columbiana County Campuses' Rising Scholars (AY 2021-2022)</i>	06/01/21 - 05/31/22	\$105,000
Kristenne Robison, Salem Campus Ohio Department of Rehabilitation and Correction <i>2+2 Pathway Advanced Job Training Proposal</i>	07/01/21 - 06/30/23	\$120,000

Sarah Rogers, Museum Tameka Ellington, Fashion Design and Merchandising Joseph Underwood, Art Subaward Ohio Humanities /National Endowment for the Humanities <i>Digital Green Book</i>		05/01/21 - 04/30/22	\$20,000
Ricardo Sepulveda, Music Kulas Foundation <i>Kent/Blossom Music Festival Kulas Visiting Artists 2021</i>		04/01/21 - 03/31/22	\$15,000
Cassandra Storlie, Lifespan Development and Educational Sciences Bridget Mulvey, Teaching, Learning and Curriculum Studies Martha Holden Jennings Foundation <i>ELLOS</i>		06/01/21 - 05/31/22	\$22,000
Wendy Turner, WKSU Corporation for Public Broadcasting <i>CPB Distribution of the ARP Stabilization Fund</i>		03/11/21 - 12/31/21	\$208,392
Jasmina Waters, Diversity, Equity and Inclusion U.S. Department of Education <i>Kent State University Upward Bound Classic Academy</i>	Continuation	06/01/21 - 05/31/22	\$589,415
Lori Wilfong, Stark Campus Kathryn Walley, Teaching, Learning and Curriculum Studies Subaward National Writing Project /U. S. Department of Interior National Park Service <i>NWP/USDINPS: 2021 - 2022 NWP-KSU/Cuyahoga Valley National Park Service Collaboration</i>		04/01/21 - 03/31/22	\$3,500
Sonya Williams, Diversity, Equity and Inclusion James Campbell, Design Innovation Initiative Akron Community Foundation <i>To support APS College &amp; Career Academies via a summer DI program for Firestone CLC students &amp; parents</i>	Additional	04/01/21 - 03/31/23	\$1,627
Susan Zake, Journalism and Mass Communication The Cleveland Foundation <i>Ask The Land: Environmental Reporting Initiative</i>		05/31/21 - 09/01/21	\$10,000

## COMPARATIVE DATA

Fiscal Year to Date	FY 2019 - 2020	FY 2020 - 2021
<b>Total Funding</b>	<b>\$ 36,974,232</b>	<b>\$ 31,390,334</b>
<b>Research</b>	<b>\$ 24,423,131</b>	<b>\$ 21,260,043</b>
<b>Instruction</b>	<b>\$ 4,435,125</b>	<b>\$ 2,843,127</b>
<b>Other Activity</b>	<b>\$ 8,115,975</b>	<b>\$ 7,287,164</b>