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

EXTRAMURAL FUNDING REPORT

Funds awarded for
July-September, 2015
$9,929,931

Total funding to date
FY 2015 - 2016
$9,929,931

Research

Sonia Alemagno, College of Public Health
Akron General Medical Center
*The Ohio Means Internships and Co-ops Partnership with Akron General Medical Center: Carissa Smock*

Dulcinea Avouris, Geology
Subaward the Ohio Space Grant Consortium /National Aeronautics and Space Administration
*Ohio Space Grant Consortium Fellowship*

Robert Baer, Lifespan Development and Educational Sciences
Rachel McMahan, Lifespan Development and Educational Sciences
Subaward Ohio Department of Education /U.S. Department of Education
*Ohio Longitudinal Transition Study*

Soumitra Basu, Chemistry
National Institute of General Medical Sciences
*A Non-Canonical RNA Structure Regulates Pre-miRNA Maturation*

Yossef Ben-Porath, Psychology
University of Minnesota Press
*Further Development of the MMPI-2-RF*

Christopher Blackwood, Biological Sciences
National Science Foundation
*EAGER: Moving Beyond the Leaf Decay Analogy: Root Trait Controls on Decomposition and Soil Carbon Dynamics*

Philip Bos, Liquid Crystal Institute/Chemical Physics
Intel Corporation
*Electro-optical devices based on liquid-crystal technology for human-machine interaction applications*

Bryan Caldwell, College of Podiatric Medicine
Jill Kawalec, College of Podiatric Medicine
OCPM Foundation
*Multiplex PCR with Pyrosequencing in the Diagnosis of Onychomycosis*
Andrew Curtis, Geography  
Children's Hospital Medical Center of Akron  
Research Internship Agreement with Children's Hospital Medical Center of Akron:  
Laura Schuch  

Jacqueline Curtis, Geography  
Andrew Curtis, Geography  
Subaward Akron Children's Hospital /Centers for Disease Control and Prevention  
Akron Children's Hospital (ACH) Mapping and Spatial Analysis for Childhood Injuries in the City of Akron and Summit County, Ohio  

Douglas Delahanty, Psychology  
Continuation  
Subaward University of Akron /National Institute of Mental Health  
Treatment of PTSD in Residents of Battered Women's Shelters  

Yanhai Du, Applied Engineering, Sustainability, & Technology  
Subcontract Yanhai Power LLC /National Aeronautics and Space Administration  
Phase II SBIR: Performance Evaluation of Freeze-Cast Tubular Fuel Cells  

Yanhai Du, Applied Engineering, Sustainability, & Technology  
Dominion East Ohio Foundation  
Fuel Cell Educational Technologies Program  

Maxim Dzero, Physics  
National Science Foundation  
Spins and Knots: The Rise of Topology in F-Orbital Materials  

Rick Ferdig, Lifespan Development and Educational Sciences  
Pena Bedesem, Lifespan Development and Educational Sciences  
Sanna Harjusola-Webb, Lifespan Development and Educational Sciences  
Cheng-Chang Lu, Computer Science  
Frank Sansosti, Educational Foundations and Special Services  
AT&T Foundation  
Exploring Mobile Apps for Special Education STEAM Teaching and Learning  

David Fresco, Psychology  
Continuation  
Subaward Case Western Reserve University /National Institute of Nursing Research  
SMART Center: Understanding the Brain-Behavior Link in Self-Management of Health  

Eugene Gartland, Mathematics  
National Science Foundation  
Intergovernmental Personnel Act (IPA) Assignment for Dr. Eugene Gartland  

James Gleeson, Physics  
Institute for Complex Adaptive Matter  
Novel Ordered Colloids Utilizing Bent-Shaped Bioparticles  

John Gunstad, Psychology  
Continuation  
Subaward Neuropsychiatric Research Institute /National Institute on Alcohol Abuse and Alcoholism  
Alcohol-Related Impairment and Reinforcement After Gastric Bypass Surgery
<table>
<thead>
<tr>
<th>Principal Investigator(s)</th>
<th>Start Date - End Date</th>
<th>Funding Agency</th>
<th>Project Title</th>
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<tbody>
<tr>
<td>Jeffrey Hallam, Social and Behavioral Sciences</td>
<td>08/15/15 - 08/14/18</td>
<td>Akron Area YMCA</td>
<td>Evaluation of the CATCH Kids Club</td>
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<td>Torsten Hegmann, Liquid Crystal Institute/Chemical Physics</td>
<td>08/01/15 - 07/31/18</td>
<td>National Science Foundation</td>
<td>Sensing, Imaging, Tuning and Creating Nanomaterial Chirality using Liquid Crystal Phases</td>
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<tr>
<td>Antal Jakli, Liquid Crystal Institute/Chemical Physics</td>
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<td>Elizabeth Herndon, Geology</td>
<td>09/01/15 - 08/31/18</td>
<td>Farris Family Fund -Kent State University Foundation</td>
<td>Impact of Vegetation on Metal Release from Soils Developed on Coal Mine Waste</td>
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<td>Vincent Hetherington, College of Podiatric Medicine</td>
<td>07/01/15 - 06/30/16</td>
<td>OCPM Foundation</td>
<td>Development and Evaluation of Platform and In-Shoe Devices for the Measurement of Plantar Shear Forces</td>
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<td>Marie Blazer, College of Podiatric Medicine</td>
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<td>Yijing Chen, Trumbull Campus</td>
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<td>Jill Kawalec, College of Podiatric Medicine</td>
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<tr>
<td>Jili Kawalec, College of Podiatric Medicine</td>
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<td>Peter Palfy-Muhoray, Liquid Crystal Institute/Chemical Physics</td>
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<tr>
<td>Hiroshi Yokoyama, Liquid Crystal Institute/Chemical Physics</td>
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<tr>
<td>Oleg Lavrentovich, Liquid Crystal Institute/Chemical Physics</td>
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<td>Subaward The University of Wisconsin /National Science Foundation</td>
<td>UW Center of Excellence for Materials Research and Innovation (CEMRI) on Structured Surfaces (MRSEC)</td>
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<td>Matthew Lehnert, Stark Campus</td>
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<td>Subaward Clemson University /National Science Foundation</td>
<td>Mechanisms of Fluid Feeding in Insects, from Nanoscale to Organisms</td>
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Continuation 07/01/14 - 05/31/17  $42,904
Bjorn Lussem, Physics
United States-Israel Binational Science Foundation
Vertical Organic Light Emitting Transistors
10/01/15 - 09/30/19 $22,500

Mark Manley, Physics
U.S. Department of Energy
Investigations of Baryon Spectroscopy via Electromagnetic and Hadronic Scattering
08/15/15 - 08/14/16 $146,000

Marilyn Norconk, Anthropology
Conservation International
Third Annual Primate Field Ecology and Conservation Workshop for Suriname University Students at Brownsberg Nature Park, Suriname
08/15/15 - 11/15/15 $3,000

Joseph Ortiz, Geology
National Aeronautics and Space Administration
Ground Data Acquisition and Processing for Hyperspectral Imaging of Harmful Algal Blooms (HABs)
Continuation 12/05/14 - 06/30/16 $42,000

Peter Palffy-Muhoray, Liquid Crystal Institute/Chemical Physics
Subaward Washington State University/National Science Foundation
EFRI-ODISSEI: Photomorphon Networks: Intelligent Shape Changing Structures
Continuation 08/01/13 - 07/31/17 $109,150

Lynette Phillips, Epidemiology/Biostatistics
Akron General Medical Center
The Ohio Means Internships and Co-ops Research Partnership with Akron General Medical Center: Ryan Burke
07/08/15 - 08/31/16 $18,900

Sara Raven, Teaching, Learning and Curriculum Studies
American Society for Biochemistry and Molecular Biology
Supporting Science Instruction for Deaf Students
08/01/15 - 03/31/16 $1,959

Angela Ridgel, Health Sciences
Subaward University of Akron/National Science Foundation
I-Corps Site Mini Grant #SP15-009: Adaptive Rehabilitation Device
05/01/15 - 04/30/16 $2,500

Shawn Rohlin, Economics
Dandan Liu, Economics
First Suburbs Consortium
07/15/15 - 10/01/15 $5,000

Shawn Rohlin, Economics
Curtis Reynolds, Economics
City of Kent, Ohio
Estimated Economic Value of One Student on City of Kent
08/05/15 - 10/31/15 $5,318

Lynne Rowan, Health Sciences
Susan Grogan-Johnson, Health Sciences
Greenfield Village Exempted Schools
Telepractice - Greenfield, Year 5
08/01/15 - 05/31/16 $54,773

Lynne Rowan, Health Sciences
Susan Grogan-Johnson, Health Sciences
Montpelier Exempted Village Schools
Telepractice - Montpelier, Year 5
08/01/15 - 05/31/16 $65,429
Phillip Rumrill, Lifespan Development and Educational Sciences  
Administration for Community Living  
Project CAREER: Development of an Interprofessional Demonstration to Support the Transition of Students with Traumatic Brain Injuries from Postsecondary Education to Employment  
Continuation  04/01/15 - 09/29/16  $474,968

Paul Sampson, Chemistry  
Alexander Seed, Chemistry  
National Science Foundation  
Synthesis and Mechanistic Studies on the Reactions of Photoactive Nitrosyl Hydride (HNO) Precursors with Biological Reductants  
Supplement  08/01/13 - 07/31/16  $29,112

Carrie Schweitzer, Stark Campus  
Eric Taylor, Stark Campus  
Dominion East Ohio Foundation  
Technology-Enhanced Learning and Research in Geology and Environmental Studies  
08/01/15 - 08/31/16  $34,000

Alison Smith, Geology  
National Science Foundation  
EarthCubeIA: Collaborative Proposal: Building Interoperable Cyberinfrastructure (CI) at the Interface between Paleogeoinformatics and Bioinformatics  
09/01/15 - 08/31/17  $78,000

Tara Smith, Epidemiology/Biostatistics  
Subaward Civilian Research Development Foundation /Defense Threat Reduction Agency  
Afghanistan Bioscience Fellowship Program, Haji Mohammad Naimi  
Continuation  06/01/15 - 05/31/16  $4,930

Tara Smith, Epidemiology/Biostatistics  
Subaward Translational Genomics Research Institute /National Institute of Allergy and Infectious Diseases  
Rapid Emergence of Livestock-associated MRSA ST398: Host-adaptation & Virulence  
09/20/15 - 12/11/15  $7,475

Peter Tandy, Physics  
National Science Foundation  
Continuum QCD Modeling of Hadron Properties  
08/01/15 - 07/31/18  $100,000

Anthony Tosi, Anthropology  
Farris Family Fund -Kent State University Foundation  
The Molecular Signature of Sperm Competition: A Case Study in Macaque Monkeys  
09/01/15 - 08/31/18  $24,000

James Tyner, Geography  
Mandy Munro-Stasiuk, Geography  
National Science Foundation  
Estimating the Environmental Impact of Mass Violence  
Continuation  07/01/15 - 12/31/17  $162,211

Hiroshi Yokoyama, Liquid Crystal Institute/Chemical Physics  
Subaward OPTRA, Inc. /U.S. Department of Energy  
Tunable Liquid Crystal Grating Filter  
06/10/15 - 02/28/16  $75,000
Ye Zhao, Computer Science
Xinyue Ye, Geography
National Science Foundation
SI2-SSE: Collaborative Research: TrajAnalytics: A Cloud-Based Visual Analytics Software System to Advance Transportation Studies Using Emerging Urban Trajectory Data

**Instruction**

Barbara Broome, Nursing
Ohio Board of Regents
*Choose Ohio First Nursing Scholarships*
Continuation 07/01/15 - 06/30/17 $60,000

Dondrea Brown, University College
U.S. Department of Education
*Ronald E. McNair Post-Baccalaureate Achievement Program*
Continuation 10/01/15 - 09/30/16 $228,801

Rosemary Gornik, Foundations, Leadership and Administration
Subaward the Ohio Department of Education /U.S. Department of Education
*Building Capacity for Teacher Leadership in Ohio's School Districts*
07/01/15 - 06/30/16 $192,807

Sanna Harjusola-Webb, Lifespan Development and Educational Sciences
U.S. Department of Education
*Project EI-NEST-DL: Early Intervention in Natural Environments Specialization Training Through Distance Learning*
Continuation 01/01/16 - 12/31/16 $249,998

Caven McLoughlin, Lifespan Development and Educational Sciences
Lynne Rowan, Health Sciences
U.S. Department of Education
*Early Childhood Intervention for School Psychologists and Speech Pathologists*
Continuation 08/15/15 - 08/14/16 $248,377

Patrick O'Connor, Teaching, Learning and Curriculum Studies
Subaward Ohio Department of Education /U.S. Department of Education
*FY2015-16 CTE Teacher Preparation and Retention*
07/01/15 - 06/30/16 $100,000

Patrick O'Connor, Teaching, Learning and Curriculum Studies
Subaward Ohio Department of Education /U.S. Department of Education
*CTTE Program: Career Based Intervention (CBI) Program*
07/01/15 - 06/30/16 $10,000

Joseph Ortiz, Geology
Subaward Ohio Space Grant Consortium /National Aeronautics and Space Administration
*Ohio Space Grant Consortium Junior/Senior Scholarships*
Continuation 08/24/15 - 05/31/16 $7,500

Brent Robinson, Academic Success Center
Pamela Freeman, Research and Evaluation Bureau
Deborah Shama-Davis, Research and Evaluation Bureau
U.S. Department of Education
*Student Support Services Program at Kent State University*
09/01/15 - 08/31/16 $443,212

Andrew Tonge, Mathematics
Aloysius Kasturiarachi, Stark Campus
Evgenia Soprunova, Mathematics
Subaward R.G. Drage Board of Education /Ohio Department of Education
*Mathematics for Secondary Teachers Program YEC Contract*
07/01/14 - 06/30/20 $158,120
Wendy Umberger, Nursing
Barbara Drew, Nursing
Subaward Ohio Department of Medicaid and The Ohio State University /Centers for Medicaid and Medicare Services
Healthcare Access Initiative

07/01/15 - 06/30/16 $15,750

Other Sponsored Activity

Rebecca Balogh Gates, Theatre and Dance
Frans Eric Van Baars, Theatre and Dance
Ohio Arts Council
Porthouse Theatre/Operating Support FY16

07/01/15 - 06/30/16 $22,712

Scott Courtney, Teaching, Learning and Curriculum Studies
Joanne Caniglia, Teaching, Learning and Curriculum Studies
U.S. Department of Education
Warren City Schools-Kent State Mathematics Partnership Study Group Project

08/16/15 - 08/15/15 $62,210

Scott Courtney, Teaching, Learning and Curriculum Studies
Subaward Ohio Department of Education /U.S. Department of Education
Northeast Ohio Mathematics Learning Community Project

08/16/15 - 06/30/16 $273,124

Jean Druesedow, Museum
Ohio Arts Council
Kent State University Museum /Operating Support FY16

07/01/15 - 06/30/16 $22,554

E Henderson Ellis, Diversity, Equity and Inclusion
U.S. Department of Education
Upward Bound Public Health

Continuation 09/01/15 - 08/31/16 $262,500

E Henderson Ellis, Diversity, Equity and Inclusion
Jennifer Marcinkiewicz, Biological Sciences
U.S. Department of Education
Kent State University Upward Bound Math-Science Program

Continuation 09/01/15 - 08/31/16 $262,500

Susanna Fein, English
National Endowment for the Humanities
Chaucer's Canterbury Tales

10/01/15 - 08/30/16 $114,616

Lisa Goetsch, Trumbull Campus
Ohio Department of Public Safety
Motorcycle Ohio FY2016 Training Grant

07/01/15 - 06/30/16 $106,024

Rosemary Gornik, Foundations, Leadership and Administration
Elizabeth Testa, Teaching, Learning and Curriculum Studies
Martha Holden Jennings Foundation
Collaborating through Critical Conversations and Inquiry to Promote Teacher Leadership

07/01/15 - 06/30/16 $17,400

David Hassler, Wick Poetry Program/English
Jessica Jewell, Wick Poetry Program/English
Nicole Robinson, Wick Poetry Program/English
Ohio Arts Council
Wick Poetry Center/Traveling Stanzas

07/01/15 - 06/30/16 $14,889
David Hassler, Wick Poetry Program/English 07/01/15 - 06/30/16 $15,465
Jessica Jewell, Wick Poetry Program/English
Ohio Arts Council
Wick Poetry Center/Operating Support FY16

Constance Hawke, Compliance and Risk Management 09/08/15 - 09/07/16 $188,172
David Poluga, Kent State Airport
Federal Aviation Administration
Rehabilitate Runway

Vincent Hetherington, College of Podiatric Medicine 07/01/15 - 06/30/16 $35,000
Marcello Fantoni, Office of Global Education
OCPM Foundation
International Institute for Podiatric Medicine

Deric Kenne, Health Policy Management 09/30/15 - 09/29/16 $121,206
Substance Abuse and Mental Health Services Administration
Project AWARE Kent

Julie Messing, Office of the Provost 07/01/15 - 06/30/16 $14,023
Addition
Burton D. Morgan Foundation
Blackstone LaunchPad FY16 - 17

Roy Messing, Political Science 09/01/15 - 08/31/16 $24,500
U.S. Department of Agriculture
Development for Feasibility Study and Business Plan for Fish Farm Coop

Mandy Munro-Stasiuk, Geography 10/01/15 - 03/31/19 $200,000
Gail Fraizer, Biological Sciences
National Science Foundation
Collaborative Research: Northern Ohio AGEP-T: A Racially and Ethnically Inclusive Graduate Education Model in Biology, Chemistry and Engineering

Brian Newburg, Stark Campus 07/01/15 - 06/30/16 $2,956
Ohio Arts Council
Kent State University/Stark Campus Theatre Dept

Victor Pavona, Stark Campus 07/01/15 - 06/30/16 $30,251
Subaward Stark County Regional Planning Commission /U.S. Department of Housing and Urban Development
CDBG FY15 Kent Stark Micro Enterprise Development Program

Wendy Pfrenger, Salem Campus 07/10/15 - 06/30/16 $85,000
David Dees, Faculty Professional Development Center
Ohio Department of Education
Kent State University Rural Scholars Program

Marty Ropog, Ohio Literacy Resource Center/Teaching, Learning and Curriculum Studies 07/01/15 - 06/30/16 $926,306
Subaward Ohio Board of Regents /U.S. Department of Education
2016 ABLE (Adult Basic Literacy Education) Professional Development Network
Marty Ropog, Ohio Literacy Resource Center/Teaching, Learning and Curriculum Studies
U.S. Department of Education
Literacy Information and Communication System Regional Professional Development Centers
Continuation 10/01/15 - 09/30/16 $284,750

Jennie Royer, Trumbull Campus
Subaward the University of Akron /Ohio Department of Education
FY 16 Tech Prep Pathway Development
07/01/15 - 06/30/16 $177,578

Paul Sampson, Chemistry
Subaward Wright State University /Ohio Board of Regents
OBR Amet Memorandum of Understanding for Paul Sampson FY16
07/01/15 - 06/30/16 $8,500

Stephen Schillig, Tuscarawas Campus
Subaward Ohio Development Services Agency /U.S. Small Business Administration
Tuscarawas SBDC FY15 - SUPPLEMENT
Supplement 10/01/14 - 09/30/15 $34,300

Stephen Schillig, Tuscarawas Campus
Subaward Ohio Development Services Agency /U.S. Small Business Administration
Tuscarawas SBDC FY15 - SUPPLEMENT
Supplement 10/01/14 - 09/30/15 $5,000

Maria Sevilla, College of Podiatric Medicine
OCPM Foundation
KSU CPM Anatomy Dissection Video Series
07/01/15 - 06/30/16 $25,217

David Stringer, Applied Engineering, Sustainability, & Technology
Subaward Ohio Space Grant Consortium /National Aeronautics and Space Administration
Innovation in Aircraft Design:Designing a Capstone Design Sequence
07/01/15 - 06/30/16 $5,000

Dean Tondiglia, Police Department
Ohio Department of Public Safety
Use of an Explosives Detecting Canine
Continuation 07/01/15 - 06/30/16 $8,000

H. Anderson Turner, Art
Ohio Arts Council
School of Art Gallery/Operating Support FY16
07/01/15 - 06/30/16 $6,626

Melissa Zullo, Biostatistics/Epidemiology/Environmental Health
Summit County Department of Public Health
Partnership with Summit County Health District
08/18/15 - 08/18/16 $97,740
### COMPARATIVE DATA

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<thead>
<tr>
<th>Fiscal Year to Date</th>
<th>FY 2014 - 2015</th>
<th>FY 2015 - 2016</th>
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<tr>
<td>Total Funding</td>
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<tr>
<td>Research</td>
<td>$6,326,348</td>
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<tr>
<td>Instruction</td>
<td>$1,616,379</td>
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<td>Other Activity</td>
<td>$2,536,997</td>
<td>$3,454,120</td>
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