KENT STATE UNIVERSITY  
Research and Sponsored Programs  
Grant McGimpsey, Vice President for Research  

EXTRAMURAL FUNDING REPORT  

<table>
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**Research**

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

- Bryon Anderson, Physics  
- John Watson, Physics  
- Subcontract Jefferson Labs /U.S. Department of Energy  
- *Jefferson Laboratory project - Kabir Al Amin*

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

- Darren Bade, Biological Sciences  
- Laura Leff, Biological Sciences  
- Xiaozhen Mou, Biological Sciences  
- Subaward The Ohio State University /National Oceanic and Atmospheric Administration  
- *Ohio Sea Grant Consortium R/ER-097: Should Nitrogen be Managed in Lake Erie? The Potential of Nitrogen Fixation by Cyanobacteria*

- Robert Baer, Lifespan Development and Educational Sciences  
- Greg Jarvie, Enrollment Management and Student Affairs  
- U.S. Department of Education  
- *A Transition and Postsecondary Program for Students with Intellectual Disabilities at Kent State University*

- Laura Bartolo, Arts and Sciences  
- National Institute of Standards and Technology  
- *Cobalt-based Superalloys Case Study as Part of the Data, Models & Measurements for the Materials Innovation Infrastructure*

- Denise Bedford, Library and Information Science  
- Subaward Washington Department of Transportation /U.S. Department of Transportation  
- *Washington State Department of Transportation Research Projects*

- Yossef Ben-Porath, Psychology  
- University of Minnesota  
- *Further Development of the MMPI-2_RF*
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<td>Philip Bos</td>
<td>Liquid Crystal Institute/Chemical Physics</td>
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<td>Gemma Casadesus Smith</td>
<td>Biological Sciences</td>
<td>07/15/14 - 07/31/15</td>
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<td>Architecture and Environmental Design</td>
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<td>Andrew Curtis</td>
<td>Geography</td>
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<td>Jacqueline Curtis</td>
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<td>Barry Dunietz</td>
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<td>Maxim Dzero</td>
<td>Physics</td>
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<td>Rick Ferdig</td>
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*Research of Liquid Crystal Properties for Micro-Photonic Devices*

*Gonadotropin Involvement in Cognition and Alzheimer's Disease: Therapeutic Implications*

*Techniques for Surface Reclamation for Urban Sites*

*Research Internship with Children's Hospital Medical Center of Akron: Laura Schuch*

*Akron Children's Hospital (ACH) Mapping and Spatial Analysis for Childhood Injuries in the City of Akron and Summit County, Ohio*

*Treatment of PTSD in Residents of Battered Women's Shelters*

*Establishing the Helicity of the Surface Electrons In Smb6*

*Innovations in Development: The Use of Mobile Applications for Informal Learning in the Cuyahoga Valley National Park*
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<td>Deepa Shanadi</td>
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<td>David Fresco</td>
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<td>Joel Hughes</td>
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<td>National Heart, Lung, and Blood Institute</td>
<td><em>Mindfulness-Based Stress Reduction for High Blood Pressure: A Two-Site RCT</em></td>
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<td>Eugene Gartland</td>
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<td>Institute for Complex Adaptive Matter</td>
<td><em>Novel ordered colloids utilizing bent-shaped bioparticles</em></td>
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<td>Elizabeth Herndon</td>
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<td><em>Using the Susquehanna - Shale Hills CZO to Project from the Geological Past to the Anthropocene Future</em></td>
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<td>Jill Kawalec</td>
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<td>Jonathan LeSar</td>
<td>College of Podiatric Medicine</td>
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<td>American Podiatric Medical Association</td>
<td><em>Development of a Thermochromic Liquid Crystal Sock for Early Home Detection of Diabetic Foot Complications</em></td>
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<td>Deric Kenne</td>
<td>Health Policy Management</td>
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<td><em>Reducing High Risk Drinking Among College Students</em></td>
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<td>Dianne Kerr</td>
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<td><em>Personal Responsibility Education Program (PREP) - Northeast Ohio Region 6 (FY14/15)</em></td>
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<td>Satyendra Kumar</td>
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<td>Dena Agrakooijman</td>
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<td>National Science Foundation</td>
<td><em>US Ireland R&amp;D Partnership: Ferroelectric and Electroclinic Effects in Nano-particle Doped de Vries Smectic Liquid Crystals: Molecular Organisation and Order</em></td>
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Oleg Lavrentovich, Liquid Crystal Institute
National Science Foundation
DMREF/Collaborative Research: Materials Engineering of Chromonic and Colloidal Liquid Crystals via Mathematical Modeling and Simulation

Matthew Lehnert, Stark Campus
Kim Finer, Stark Campus
Jeremy Green, Tuscarawas Campus
Carrie Schweitzer, Stark Campus
Eric Taylor, Stark Campus
National Science Foundation
MRI: Acquisition of an Intuitive Multi-Touch Scanning Electron Microscope to Enhance Research as well as Undergraduate Student Research and Natural Science Courses

Matthew Lehnert, Stark Campus
Subaward Clemson University /National Science Foundation
Mechanisms of Fluid Feeding in Insects, from Nanoscale to Organism

Quan Li, Liquid Crystal Institute
Subaward Boston Applied Technologies Inc. /U.S. Department of Army
Advanced Laser Protection Devices Based on Thermally Fixed Hidden Grating and Reversed-mode PSCT Light Switches

Christopher Malcuit, Biological Sciences
Min-Ho Kim, Biological Sciences
Viscus Biologics
In Vitro Proliferation Assay

Mark Manley, Physics
U.S. Department of Energy
Baryon Spectroscopy Through Partial-Wave Analysis and Meson Production

Bradley Morris, Lifespan Development and Educational Sciences
Subaward Michigan State University /National Science Foundation
Cluster Randomized Trial of the Efficacy of Early Childhood Science Education for Low-Income Children

Fedor Nazarov, Mathematics
National Science Foundation
Collaborative Research:Universality Phenomena and Several Hard Problems of Non-Homogeneous Harmonic Analysis

Peter Palffy-Muhoray, Liquid Crystal Institute/Chemical Physics
Subaward Washington State University /National Science Foundation
EFRI-ODISSEI: Photomorphon Networks: Intelligent Shape Changing Structures

Lynette Phillips, Epidemiology/Biostatistics
GOJO Industries, Inc.
The Ohio Means Internships and Co-ops Research Partnership with GOJO Industries, Inc.

Lynette Phillips, Epidemiology/Biostatistics
Akron General Medical Center
The Ohio Means Internships and Co-ops Research Internship with Akron General Medical Center
Lynne Rowan, Health Sciences  
Susan Grogan-Johnson, Health Sciences  
Montpelier Exempted Village Schools  
*Telepractice - Montpelier, Year 4*  
08/01/14 - 05/31/15  
$82,361

Lynne Rowan, Health Sciences  
Susan Grogan-Johnson, Health Sciences  
Greenfield Village Exempted Schools  
*Telepractice - Greenfield, year 4*  
08/01/14 - 05/31/15  
$44,282

Phillip Rumrill, Lifespan Development and Educational Sciences  
U.S. Department of Education  
*Project CAREER: Development of an Interprofessional Demonstration to Support the Transition of Students with Traumatic Brain Injuries from Postsecondary Education to Employment*  
Continuation 10/01/13 - 09/30/15  
$474,917

Paul Sampson, Chemistry  
National Science Foundation  
*Synthesis and Mechanistic Studies on the Reactions of Photoactive Nitrosyl Hydride (HNO) Precursors with Biological Reductants*  
Continuation 08/01/14 - 07/31/16  
$270,000

Carol Sedlak, Nursing  
Cynthia Roller, Nursing  
Manfred van Dulmen, Psychology  
Sigma Theta Tau International Honor Society of Nursing  
*Transgender Individuals and Osteoporosis Prevention*  
10/01/14 - 09/30/15  
$7,444

Mark Seeman, Anthropology  
Subaward Ball State University /National Science Foundation  
*Social Network Analysis and the Reconstruction of Past Events*  
07/01/14 - 06/30/16  
$49,791

Deborah Shama-Davis, Research and Evaluation Bureau  
Pamela Freeman, Research and Evaluation Bureau  
Subaward Case Western Reserve University /National Science Foundation  
*NSF Science and Technology Center for Layered Polymeric Systems (CLiPS)*  
Continuation 08/01/14 - 07/31/15  
$41,500

Jacob Shelley, Chemistry  
LifePlus International  
*Analysis of raw materials for compound research*  
06/01/14 - 12/31/14  
$25,000

Mary Beth Spitznagel, Psychology  
Kellogg Company  
*Nutrition and cognitive function - Kellogg*  
07/01/14 - 09/01/14  
$26,824

Mary Beth Spitznagel, Psychology  
John Gunstad, Psychology  
Amy Sato, Psychology  
John Updegraff, Psychology  
Dairy Research Institute  
*Is Milk the Drink that Helps Kids Think?*  
07/01/14 - 06/30/16  
$121,000

Robert Twieg, Chemistry  
National Science Foundation  
*DMREF/Collaborative Research: Chemoresponsive Liquid Crystals Based on Metal Ion-Ligand Coordination*  
10/01/14 - 09/30/18  
$503,622
Robin Vande Zande, Art
National Art Education Foundation

Jonathan VanGeest, Health Policy Management
Summa Health System
*Research Co-op Partnership with Summa Health System: Lauren Birmingham*

Qi-Huo Wei, Liquid Crystal Institute/Chemical Physics
Robin Selinger, Liquid Crystal Institute/Chemical Physics
National Science Foundation
*Photo-Aligning Molecular Orientations in Liquid Crystal Polymers into Complex Patterns for Programmable Origami*

Christopher Woolverton, Environmental Health Sciences
EP Technologies LLC
*C. Difficile Mechanistic Study*

### Instruction

Barbara Broome, Nursing
Ohio Board of Regents
*Choose Ohio First Nursing Scholarships*

Lawrence Epps, Applied Engineering, Sustainability, & Technology
Continuation 07/01/14 - 06/30/15  $60,000
Ohio Board of Regents
*Choose Ohio First Scholarship Program: Aeronautics*

Sherice Freeman, Research and Graduate Studies
Continuation 10/01/14 - 09/30/15  $228,800
U.S. Department of Education
*Ronald E. McNair Post-Baccalaureate Achievement Program*

James Gleeson, Physics
Continuation 07/01/14 - 06/30/15  $198,861
Adam Leff, Biological Sciences
Ohio Board of Regents
*Choose Ohio First Scholarship Program: Integrated Science Training for Northeast Ohio’s Future Biomedical and Biotechnology Workforce*

Sanna Harjusola-Webb, Lifespan Development and Educational Sciences
Continuation 01/01/15 - 12/31/15  $249,999
U.S. Department of Education
*Project EI-NEST-DL: Early Intervention in Natural Environments Specialization Training Through Distance Learning*

Francoise Massardier-Kenney, Institute for Applied Linguistics/Modern and Classical Language Studies
10/01/14 - 12/31/15  $166,000
Brian Baer, Modern and Classical Language Studies
National Endowment for the Humanities
*What is Gained in Translation?*

Caven McLoughlin, Lifespan Development and Educational Sciences
Continuation 08/15/14 - 08/14/15  $248,204
Lynne Rowan, Health Sciences
U.S. Department of Education
*Early Childhood Intervention for School Psychologists and Speech Pathologists*
Patrick O'Connor, Teaching, Learning and Curriculum Studies  
Subaward Ohio Department of Education / U.S. Department of Education  
FY2014-15 CTE Teacher Preparation and Retention  
07/03/14 - 06/30/15  $108,000

Evgenia Soprunova, Mathematics  
Andrew Tonge, Mathematics  
Ohio Board of Regents  
Choose Ohio First Scholarship Program: Student Success in Math  
Continuation 07/01/14 - 06/30/15  $270,842

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  
07/01/14 - 06/30/15  $55,376

**Public Service**

Rebecca Balogh Gates, Theatre and Dance  
Cynthia Stillings, Theatre and Dance  
Ohio Arts Council  
Porthouse Theatre/ Operating Support FY15  
07/01/14 - 06/30/15  $20,249

Jean Druesedow, Museum  
Ohio Arts Council  
Kent State University Museum / Operating Support FY15  
07/01/14 - 06/30/15  $23,448

John Duncan, Technology  
Subaward Ohio Board of Regents / U.S. Department of Education  
Development of Air Transportation Pathway - FY14 OBR OATN Secondary Career-Technical Alignment Initiative (SCTAI)  
08/01/14 - 06/30/15  $1,200

E Henderson Ellis, VP Diversity, Equity and Inclusion  
U.S. Department of Education  
Upward Bound Public Health  
Continuation 09/01/14 - 08/31/15  $262,500

E Henderson Ellis, VP Diversity, Equity and Inclusion  
Jennifer Marcinkiewicz, Chemistry  
U.S. Department of Education  
Kent State University Upward Bound Math-Science Program  
Continuation 09/01/14 - 08/31/15  $262,500

Lisa Goetsch, Trumbull Campus  
Ohio Department of Public Safety  
Motorcycle Ohio FY 2015 Training Grant  
07/01/14 - 06/30/15  $109,511

David Hassler, Wick Poetry Program/ Arts and Sciences  
Jessica Jewell, Wick Poetry Program/ Arts and Sciences  
Ohio Arts Council  
Wick Poetry Center/ Operating Support FY15  
07/01/14 - 06/30/15  $14,410

David Hassler, Wick Poetry Program/ Arts and Sciences  
Jessica Jewell, Wick Poetry Program/ Arts and Sciences  
Nicole Robinson, Wick Poetry Program/ English  
Ohio Arts Council  
Encouraging New Voices  
07/01/14 - 06/30/15  $13,958
David Hassler, Wick Poetry Program/Arts and Sciences 10/01/14 - 09/30/15 $33,472
Jessica Jewell, Wick Poetry Program/Arts and Sciences
Nicole Robinson, Wick Poetry Program/English
Akron Community Foundation
Encouraging New Voices: A Collaborative Initiative with Akron Public Schools

Constance Hawke, Compliance and Risk Management 09/11/14 - 12/31/14 $224,433
Federal Aviation Administration
Airport Snow Removal Equipment Acquisition

Eric Jefferis, Social and Behavioral Sciences 05/01/14 - 07/31/14 $5,189
Subaward Ohio Office of Criminal Justice Services /U.S. Department of Justice
CIRV Training

David Jurca, Urban Design Center/Architecture and Environmental Design 07/01/14 - 06/30/15 $2,682
Subaward the Ohio Arts Council /National Endowment for the Arts
Kent State University Urban Design Collaborative

Koon-Hwee Kan, Art 05/01/14 - 07/31/16 $15,000
Janice Lessman-Moss, Art
E. Rhodes and Leona B. Carpenter Foundation
@Infinitum: Create+Lead+Learn

Martha Lash, Teaching, Learning and Curriculum Studies 02/11/14 - 05/31/15 $10,000
Hershey Foundation
Curriculum in a Cupboard

Lori Lee, Ashtabula Campus Continuation 07/01/14 - 06/30/15 $51,956
Subaward Missouri State University /National Science Foundation
VESTA National Center of Excellence

Pamela Mitchell, Health Sciences 08/15/14 - 11/15/15 $9,974
Molly Merriman, Sociology
American Speech-Language Hearing Association
Cultural competence with LGBT parents and their children: An IPE approach

Mike Morelli, Tuscarawas Campus 10/16/14 - 10/16/14 $2,470
Subaward Arts Midwest /National Endowment for the Arts
Aquila Theatre Company

Victor Pavona, Stark Campus 07/01/14 - 06/30/15 $32,982
Subaward Stark County Regional Planning Commission /U.S. Department of Housing and Urban Development
CDBG FY 14 Kent Stark Micro Enterprise Development Program

Christopher Post, Stark Campus 07/17/14 - 05/01/15 $28,000
Dominion East Ohio Foundation
Campus to Career from the Liberal Arts to the Energy Sector

Marty Ropog, Ohio Literacy Resource Center/Teaching, Learning and Curriculum Studies 07/01/14 - 06/30/15 $20,000
The Pennsylvania State University
Professional Services for the Institute for the Study of Adult Literacy

Marty Ropog, Ohio Literacy Resource Center/Teaching, Learning and Curriculum Studies 07/01/14 - 06/30/15 $451,695
Subaward Ohio Board of Regents /U.S. Department of Education
2015 ABLE 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*

Marty Ropog, Ohio Literacy Resource Center/Teaching, Learning and Curriculum Studies
Alexa Sandmann, Teaching, Learning and Curriculum Studies
Dominion East Ohio Foundation
*Kent State University's GED Program: Bridging the Path to Higher Education - 2014-2015*

Jennie Royer, Trumbull Campus
Continuation 07/01/14 - 06/30/15 $177,578
Subaward University of Akron /Ohio Department of Education
*FY 15 Tech Prep Pathway Development*

Paul Sampson, Chemistry
07/01/14 - 06/30/15 $11,000
Ohio Board of Regents
*OBR Ohio ATnet Memorandum of Understanding for Paul Sampson - FY15*

Alexa Sandmann, Teaching, Learning and Curriculum Studies
Kathryn Walley, Teaching, Learning and Curriculum Studies
Lori Wilfong, Stark Campus
*Subaward National Writing Project /U.S. Department of Education*
*NWP-KSU and Barack Obama School Partnership*

Stephen Schillig, Tuscarawas Campus
Additional 10/01/14 - 09/30/15 $14,662
Subaward Ohio Development Services Agency /U.S. Small Business Administration
*Tuscarawas SBDC FY14*

Faith Sheaffer-Polen, Stark Campus
08/01/14 - 08/31/15 $150,000
Great Lakes Higher Education Guaranty Corporation
*Great Lakes Community Investments 2014-2015 Career Ready Internship Grant*

Dun Skinner, WKSU
07/01/14 - 06/30/15 $52,211
Broadcast Educational Media Commission
*Broadcast Educational Media Commission Subsidy 2015*

H. Anderson Turner, Art
07/01/14 - 06/30/15 $6,444
Ohio Arts Council
*Operating Support/School of Art Gallery FY15*

Laurie Wagner, Health Sciences
Irene Axiotis, Health Sciences
Advocates for Youth
*National Teacher Preparation Standards for Sexuality Education*

Andrew Wiley, Lifespan Development and Educational Sciences
Brian Barber, Lifespan Development and Educational Sciences
Pena Bedesem, Lifespan Development and Educational Sciences
Steven Turner, Teaching, Learning and Curriculum Studies
Lori Wilfong, Stark Campus
*Subaward Ohio Dept of Education & University of Dayton Research Institute /U.S. Department of Education*
*Project ASTUTE-Improving Education for All Students Through Unified Teacher Education*
## COMPARATIVE DATA

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