

East Stroudsburg University

Research, Scholarship and Creative Activities

Fiscal Year 2014-2015

FEATURED INSIDE

**ALERT!
PA Timber
Rattlesnakes
are back!**

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“Time” to get fit**

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grades Monroe County**

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**Yale Astrophysicist
Inspires Students**

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esu.edu





Photograph by Mitzi Campbell

*3D Printed Sculpture
by Darlene Farris-LaBar*

MESSAGE FROM THE PRESIDENT

This booklet serves to highlight the research and innovative endeavors of the ESU community that align with our university's Strategic Plan, *Students First: Innovate ESU*. It is paramount to ESU's mission to offer exciting opportunities for students, faculty, and staff to engage in research, creative projects, and innovative enterprises so we may continue to cultivate a culture of innovation, entrepreneurship, research, and scholarship at our university.

As we launch into the third year of our Strategic Plan with implementation underway, it is an opportune moment to reflect on the goals we set forth in regards to the future of our grant activity, our pioneering research, and our entrepreneurship while honing a strong sense of community on campus and off. We continue to keep students at the center of all we do, and our success will be evident through theirs.

ESU's annual grants booklet, previously titled *Funding Year in Review*, documents and visually reminds us of the important internal and external sponsored work that is undertaken at ESU every year. We all value the diligence and conviction put into this work. This year's publication, titled *Research, Scholarship, and Creative Activities*, builds on this tradition to celebrate our grant-related achievements, while highlighting innovative projects, entrepreneurial activities, and most importantly the research-related work of our graduate and undergraduate students.

We are on the path to achieving our goal of reaching \$5 million in annual awards by 2020. Since the last fiscal year, we have increased the number of grant requests by 39 percent and our awards by 34 percent. This is a step in the right direction. But let us remember the core reason for seeking external grants: external awards are a vehicle by which we can build and enhance academically excellent programs that are competitive on the national level. These dollars support the intellectual vigor and quality of our programs.

Let us be fiercely creative with interdisciplinary endeavors and step outside our comfort zones to foster our resilience in this competitive domain of grants and entrepreneurship. Let us utilize the valuable resources of our students to further our endeavors in research and scholarship while helping them also reach their personal goals and dreams. There has never been a better time than now to reach higher and dream bigger.

Grant awards are often the catalyst that turn a good idea into a ground-breaking phenomenon. I urge you all to participate in this inevitable grant growth at ESU. Network with your colleagues, your students, and your community to rise to the challenge. Let us quicken the momentum and forge through the obstacles that arise along this path. I believe ESU will reach new heights in sponsored projects and research, in innovation and entrepreneurship, in scholarship and creative missions, and I believe this will happen because of your continued tenacity and enthusiasm. Let us all keep students first and innovate ESU!

Sincerely,



Marcia G. Welsh, Ph.D.
President



We are proud
to announce
that ESU's
success rate for
external grants
in 2014-2015
was 62 percent.
Dollar amounts
requested
increased over
182%
between FY 13-14
and FY 14-15.



MISSION STATEMENT

*The mission of the
Office of Sponsored Projects
and Research is to advance
the research enterprise at
East Stroudsburg University
by promoting an environment
that fosters creativity,
collaboration, and community.*

MESSAGE FROM THE OFFICE OF SPONSORED PROJECTS AND RESEARCH

In her Monday Morning Message of February 2, 2015, President Welsh challenged the ESU community to become more engaged in research and scholarly activity and to raise our grant awards from what had been \$1.7 million to \$5 million by 2020. President Welsh wrote, "ESU has seen a downward trend in the amount of awards for external grants over the past five years due to a more competitive grant environment with fewer funding opportunities. However, as we begin to prepare for a new academic year, it is time to look forward and to set goals for ourselves in order to move ESU's grant activity in an upward trend moving forward. ESU has been hovering around the \$2 million mark in external awards for several years. I would like to challenge our campus community to raise that amount to \$2.5 million in a year, \$3 million in two years with an ultimate goal of reaching \$5 million in five years – 2020."

Since I began managing the Office of Sponsored Projects and Research (OSPR) in January 2014, and since our new goal was put forth in February 2015, many changes have taken place. We are especially proud of the following 2014-2015 achievements:

- The addition of a pre-post award grant project coordinator
- Enhanced web presence with up-to-date information, policies, and procedures
- New grant search engine *Grant Forward* for the ESU community
- Increased outreach to the ESU community including pre- and post-award meetings
- Dissemination of a monthly grants bulletin to faculty and staff
- Additional events to support faculty and staff engagement in grants and scholarship at ESU, including OSPR's first ever Speed Networking event and an Introduction to Federal Grant Writing Workshop with guest speaker Professor Jeanne Manson
- Successful, collaborative discussions with faculty, staff, and administration about increasing undergraduate research activity
- Updated and improved FDR guidelines and application processes.

This publication shows the progress and the advancement we have made in one year of proactive changes while keeping our eyes on the goal of \$5 million. It proudly highlights the research, innovation, and creative scholarly pursuits of our faculty, staff, and students over the 2014-2015 fiscal year. We thank the university community for your dedication and efforts to advance the intellectual vitality at East Stroudsburg University.

Sincerely,

Christina McDonald
Manager, Office of Sponsored Projects and Research

Research, Scholarship and Creative Activities

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East Stroudsburg University of Pennsylvania
*A Member of Pennsylvania's State System
of Higher Education*

ANNUAL RESEARCH METRICS FOR SPONSORED PROJECTS

The Office of Sponsored Projects and Research has made progress in advancing the research enterprise at ESU. Growth has continued this past fiscal year as ESU faculty, students and staff participated in submitting 68 proposals: 23 federal, 15 state, 21 private, and 9 State System transfers.

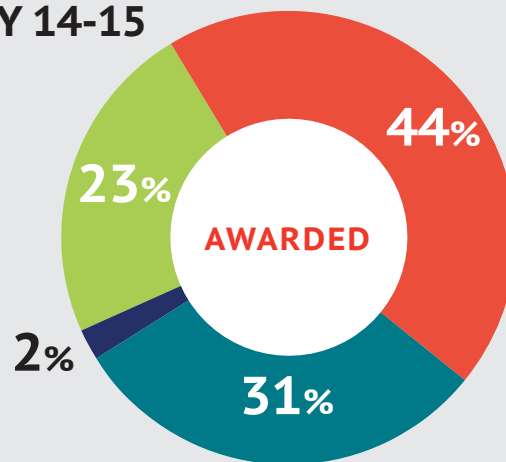
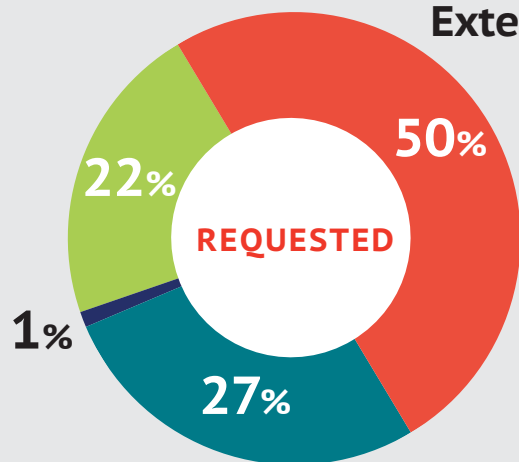
Submissions total \$7,871,886 and resulted in grant awards totaling \$2,292,026.

The metrics below reflect the proposals submitted and awards received as well as the growth for ESU over the last year.

Note: Grants are listed under the Principal Investigator (PI). Co-Principal Investigators and student researchers are listed within the grant summaries.

Entrepreneurship Across the Colleges was funded by grants from the PA Department of Community and Economic Development (DCED) and the ESU Center for Research and Economic Development (CFRED).

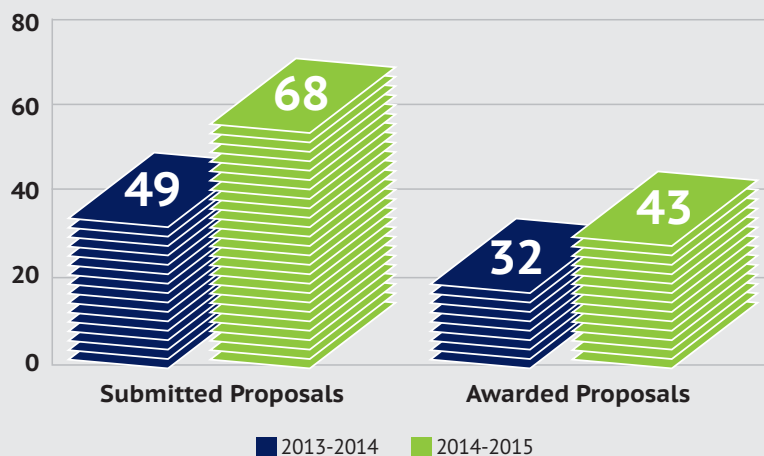
External Grants FY 14-15



Trend in External Proposals

39% Increase in Submitted

34% Increase in Awarded



Awards by College and Division



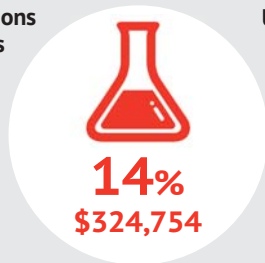
University Divisions
and Affiliates
9



University College
2



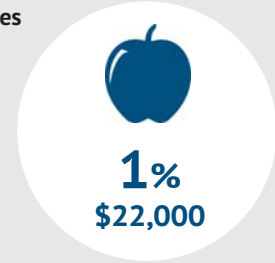
Health Sciences
11



Arts and Sciences
17



Business and Management
2



Education
2

All Divisions	Proposals Submitted	Proposals Awarded		Proposals Submitted	Proposals Awarded
Arts and Sciences	23	17	Health Sciences	16	11
Business and Management	2	2	University College	2	2
Education	4	2	University Divisions and Affiliates	21	9
			Total	68	43

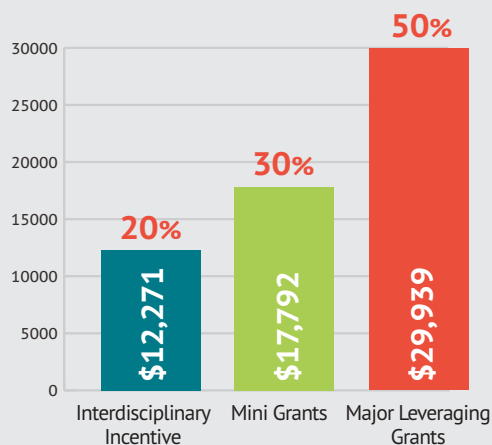
**University Divisions and Affiliates include Academic Affairs, Administration and Finance, Research and Economic Development, Student Affairs, ESU Center for Research and Economic Development, and the ESU Foundation.*

Faculty Development and Research (FDR) Internal Grants

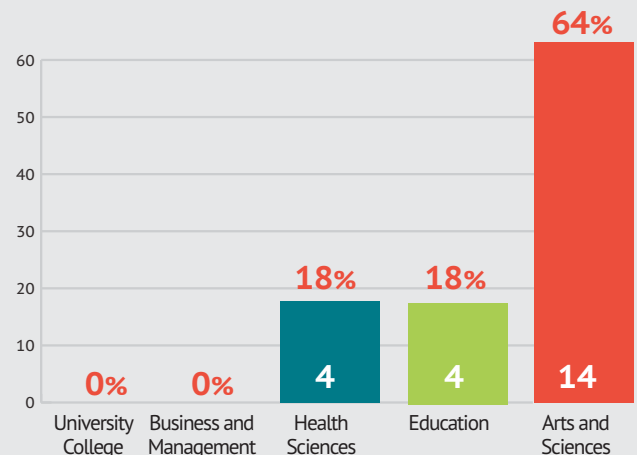
FDR Total Amount
Requested 14-15 **\$113,679**

FDR Total Amount
Awarded 14-15 **\$60,000**

Awarded FDR Grants by Type



Number and Percent of FDR Awards by College



COLLEGE OF Arts and Sciences



Paul Bartoli



Olivia Carducci



Esther Daganzo-Cantens
CO-PI, p. 33



Johan Eliasson



Sussie Eshun



Darlene Farris-LaBar



Christine Hofmeister



Shixiong Hu



Jane Huffman



James Hunt



John Kraybill-Greggo
CO-PI, p. 43



Thomas LaDuke



Carrie Maloney



Robert Marmelstein



Joni Oye-Benintende



Jeff Ruth



Elizabeth Leigh Smith



Yoshinori Tanokura



Jyh-Hann Chang



Dongsheng Che



Laurene Clossey



Timothy Connolly



Stephanie French



Yevgeniy Galperin



Glenn Geiser-Getz



Bonnie Green



Michelle Jones-Wilson



Richard Kelly



Irina Khusid



Heon Kim



Terry Master



Mary Ann Matras



David Mazure



Annie Mendoza



Holly Wells



Howard Whidden



Jennifer White



Paul Wilson

External Grants

Arts and Sciences

Total Amount Funds Requested	\$1,175,189
Total Amount Funds Awarded	\$324,754
Number of Proposals Requested	23
Number of Proposals Awarded	17

FDR Grants

Arts and Sciences

Total Amount Funds Requested	\$67,528
Total Amount Funds Awarded	\$42,417
Number of FDR Proposals Requested	19
Number of FDR Proposals Awarded	14

OLIVIA CARDUCCI

College of Arts and Sciences | Mathematics

Improving Undergraduate STEM Education (IUSE): Pre-Calculus Enrichment and Applications

Funding Source: NATIONAL SCIENCE FOUNDATION (NSF)

Amount Requested: \$135,291

OVERVIEW: This project proposed to increase student success in Math 135: Pre-Calculus by supplementing the current Pre-Calculus course with a series of applied projects. The applications came from a wide range of disciplines, including economics, physics, chemistry, biology, and mathematics. In addition to the traditional Pre-Calculus lecture, students would attend a separate class where they would work on these applied problems in groups with the support of an instructor and a trained student assistant. Not only would student success in Math 135 increase, this project would improve students' abilities to use the pre-calculus skills in other courses, thus increasing student retention in STEM majors. The project would include two student workers.

JYH-HANN CHANG

College of Arts and Sciences | Psychology

Hydration Challenge

Funding Source: PA HEALTH AND WELFARE FUND

Amount Awarded: \$1,500

Undergraduate Student Researchers: Emily Fitzsimmons, Caitlin Trainer, Jacqueline Cassaro, Alexa Stelecki, and Savannah Doyle, psychology

OVERVIEW: The Hydration Challenge raised awareness of our daily intake of water and the discrepancy that exists between our actual intake and the recommended levels of hydration. Professor Chang hoped that through this challenge, ESU students would become more aware of their level of hydration, and that they would drink more water based on the recommendation to add flavoring which makes hydrating tastier.

DONGSHENG CHE

College of Arts and Sciences | Computer Science

Using Hadoop for Big Data Analytics on a Multiple-Core Machine

Funding Source: FDR MINI GRANT

Amount Awarded: \$1,389

OVERVIEW: Big Data includes massive data sets from posts on social media sites, to online transaction records, to online patient medical records. Processing and analyzing Big Data is difficult with traditional data processing tools. Professor Che used this grant to purchase a multi-core (CPU) workstation to analyze these data sets with the necessary technology.

Health Research Nonformula Grant: Pharmacorank: Search Engine for Prioritizing Medications and Their Protein Targets

Funding Source: PA DEPARTMENT OF HEALTH (PA DOH) –
THE COMMONWEALTH MEDICAL COLLEGE (TCMC)

Amount Requested: \$43,622

OVERVIEW: This project proposed to develop bio-informatics tools for the construction of drug-related protein target networks, co-occurrence protein networks in disease, and the protein networks that connect drugs and disease. This tool would be integrated into The Commonwealth Medical College's Pharmacorank Resource so that medical doctors and scientists would gain insight into how a drug targets a protein or a group of proteins for therapy or how proteins interact with each other in disease.

LAURENE CLOSSEY

*College of Arts and Sciences | Sociology, Social Work,
and Criminal Justice*

A Study of Home-Based Family Therapy for Multi-Problem Families in Rural Pennsylvania

FDR INTERDISCIPLINARY INCENTIVE GRANT

Amount Requested: \$3,000

CO-PI: PAUL BARTOLI

College of Arts and Sciences | Psychology

CO-PI: SUSSIE ESHUN

College of Arts and Sciences | Psychology

TIMOTHY CONNOLLY

College of Arts and Sciences | Philosophy and Religious Studies

Foundations of Confucian Ethics

Funding Source: FACULTY PROFESSIONAL DEVELOPMENT
COUNCIL (FPDC)

Amount Awarded: \$7,329

OVERVIEW: Confucianism has become increasingly important in China today with President Xi Jinping's recent call for a renewed focus on traditional Chinese culture and the teachings of Confucius in particular. In the U.S., there has also been a growing interest in Chinese philosophy and traditional culture, though it has come with a much-publicized debate about the role of Beijing-funded "Confucius Institutes" at a number of

American universities. Professor Connolly's research examines the philosophical foundations of Confucius' ethical teachings with the goal of determining possible connections between Confucianism and Western ethical theory. This grant helped fund work on three chapters of Professor Connolly's book: *The Foundations of Confucian Ethics: Roles, Virtues, and Selves*, as well as travel to China for a workshop on Confucian ethics in 2016.

Advancing Cross-Cultural Philosophy

Funding Source: FDR MAJOR LEVERAGING GRANT

Amount Awarded: \$6,781

OVERVIEW: In the past decade there has been a growing conversation about how the field of philosophy can be enlarged to incorporate developments from philosophical traditions found in East Asia, India, Africa, and other parts of the world. This leveraging grant helped support Professor Connolly's application for funding for a National Endowment for the Humanities (NEH) Summer Seminar on the topic of "Advancing Cross-Cultural Philosophy." The NEH annually sponsors several dozen Summer Seminars and Institutes that are dedicated to the development of university faculty from around the world. Awards for the seminars range between \$75,000 and \$150,000, which support administrative costs of the seminar, visiting guest speakers, and travel for attendees. The seminar would bring together 16 university professors and several guest speakers to ESU for 4-5 weeks in the summer of 2017 to discuss how to incorporate worldviews and ethical teachings from non-Western cultural traditions into contemporary philosophy. This grant helped fund a course release for the fall 2015 semester that allowed Professor Connolly to work on writing the extensive NEH grant proposal.

Attendance at Advancing Public Philosophy Workshops at the University of San Francisco, CA

Funding Source: FDR MINI GRANT

Amount Awarded: \$1,333

OVERVIEW: Since the days of Socrates, an important task of philosophers has been to contribute to the flourishing and intellectual growth of their community. Professor Connolly participated in workshops on topics such as "Philosophical Op-Ed Writing" and "Navigating the Profession as Public Philosophers." He also attended panels on issues related to "Ethical Urbanism," "Encouraging Philosophical Exchange



among Children,” “Moral Revolutions and Human Rights Education,” and “Public Philosophy and Civic Engagement.” This funding allowed Professor Connolly the valuable opportunity to learn from publicly successful philosophers about how to teach philosophy in a way that engages a wider audience.

JOHAN ELIASSON

College of Arts and Sciences | Political Science

Explaining the Transatlantic Trade and Partnership Negotiations

Funding Source: FDR MINI GRANT

Amount Awarded: \$1,355

OVERVIEW: This grant helped Professor Eliasson complete interviews and collect data for a large research project aimed at explaining whether and how interest groups and business organizations shape the outcome of complex bilateral trade and investment negotiations. The grant also helped fund a software program which ensures references conform to any publisher-requested formatting style.

Explaining the Unprecedented: The Case of the Transatlantic Trade and Investment Partnership

FDR MAJOR LEVERAGING GRANT

Amount Requested: \$7,376

DARLENE FARRIS-LABAR

College of Arts and Sciences | Art + Design

Botanification

Funding Source: FACULTY PROFESSIONAL DEVELOPMENT COUNCIL (FPDC)

Amount Awarded: \$6,286

OVERVIEW: Botanification is a large scale art installation of magnified representational botanical sculptures created by 3-D printing technology and located within the National Park Service at Peters Valley School of Craft in Layton, New Jersey. Professor Farris-LaBar’s sculptures within the installation are designed to bring awareness to the significance of endangered plant life and the role these plants play in providing essential ecosystem balance. As humankind draws toward technology and instant gratification, it pulls away from the natural world, draining resources in the name of “advancement” and resulting in potential devastation in the form of climate change. Ecosystems are injured and destroyed. Vibrant and engaging sculptures of endangered, or regionally significant flora and their components, draw attention back to nature. Technology is used to illustrate and call to the realm of possibility that the most basic tools to combat environmental depreciation are these very plants that need protection.

STEPHANIE FRENCH*College of Arts and Sciences | Theatre***Creating a Dreamscape of Midsummer**

FDR INTERDISCIPLINARY INCENTIVE GRANT

Amount Requested: \$4,350**CO-PI: DARLENE FARRIS-LABAR***College of Arts and Sciences | Art + Design***CO-PI: DAVID MAZURE***College of Arts and Sciences | Art + Design***CO-PI: ELIZABETH LEIGH SMITH***College of Arts and Sciences | English***CO-PI: YOSHINORI TANOKURA***College of Arts and Sciences | Theatre***CO-PI: HOLLY WELLS***College of Arts and Sciences | English***YEVGENIY “EUGENE” GALPERIN***College of Arts and Sciences | Mathematics***Computer Vision and Pattern Recognition Conference, Boston, MA****Funding Source:** FDR MINI GRANT**Amount Awarded:** \$1,172

OVERVIEW: The importance of image Processing, Computer Vision, and Pattern Recognition (CVPR) has been widely appreciated in the mathematical and educational communities in recent times. By attending the CVPR conference, Professor Galperin continued developing and improving MATH 445: "Mathematics in Modern Technology," which he designed in 2008. Attending also helped him provide his students with awareness and experience in cutting edge methods, techniques, and software, which helped Professor Galperin find new ways to integrate modern signal/image processing methods and computer vision into ESU's mathematics undergraduate curriculum.

Thinking Green: Improving Student Learning and Environmental Awareness in a Pearson MyMathLab-Based College Algebra Course**Funding Source:** FPDC INNOVATION IN TEACHING**Amount Awarded:** \$2,180

OVERVIEW: The purpose of this project was to redesign a course

in college algebra while enhancing student learning of mathematical techniques and promoting the students' appreciation of the societal value of mathematics. The redesign will also increase student understanding of environmental economics while deepening their environmental awareness. These goals are achieved by employing the capabilities provided by Pearson's MyMathLab Software in structuring assignments, setting up pre-requisites, providing immediate and encouraging feedback, creating custom-made problems, and in integrating problems from multiple textbooks and other sources within a single assignment.

GLENN GEISER-GETZ*College of Arts and Sciences | Communication Studies***Participation in Basic Course Design Workshops at National Communication Association Conference, Chicago, IL****Funding Source:** FDR MINI GRANT**Amount Awarded:** \$1,300

OVERVIEW: This grant enabled Professor Geiser-Getz to participate in two workshops sponsored by the National Communication Association: "The Basic Course of Tomorrow Today" and "Classroom Learning in the Digital Landscape: Exploring Media-Based Pedagogies and Practices for Effective Student Engagement," which allowed Professor Geiser-Getz to have access to the latest tools and techniques most useful in teaching communication courses that have a performance component.

BONNIE GREEN*College of Arts and Sciences | Psychology***UNVEIL— Use of Undergraduate Researchers and Neural Networks to Validate and Effectuate an Instrument to Predict STEM Learning****Funding Source:** NATIONAL SCIENCE FOUNDATION (NSF)**Amount Requested:** \$249,779

OVERVIEW: The proposed project would help fill a gap in STEM education: designing more sensitive and varied measures that can be used to identify individuals in need of remediation or attention; and verifying that the intervention is having a positive impact, ultimately increasing students successfully completing STEM education and transitioning into STEM

careers. By including undergraduate student researchers for this project, ESU would help students and their peers envision a successful STEM career and become successful STEM graduates.

JANE HUFFMAN

College of Arts and Sciences | Biological Sciences | Northeast Wildlife DNA Laboratory

Tick Testing for 140 Pools

Funding Source: GROVE CITY COLLEGE

Amount Awarded: \$7,000

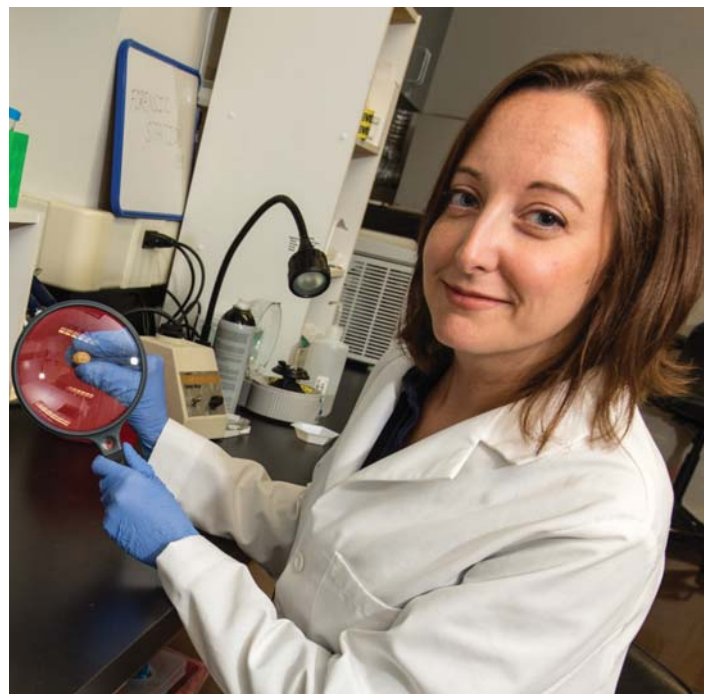
CO-PI: MEAGHAN BIRD

Northeast Wildlife DNA Laboratory

CO-PI: NICOLE CHINNICI

Northeast Wildlife DNA Laboratory

OVERVIEW: Ticks were collected from deer check stations by Grove City College personnel in all six regions of Pennsylvania (Northeast, North central, Northwest, Southeast, South central and Southwest). Ticks were sent in to the DNA Lab for testing. DNA was extracted from 140 pools of ticks, each pool containing approximately five ticks. Following DNA extraction, ticks were tested for four pathogens; *Borrelia* spp., *Babesia microti*, *Anaplasma phagocytophilum* and *Bartonella* spp.



Meaghan Bird in the Northeast Wildlife DNA Laboratory

Lyme Disease Awareness Education Program

Funding Source: PA DEPARTMENT OF HEALTH (PA DOH)

Amount Awarded: \$9,850

CO-PI: MEAGHAN BIRD

Northeast Wildlife DNA Laboratory

CO-PI: NICOLE CHINNICI

Northeast Wildlife DNA Laboratory

OVERVIEW: The Pennsylvania Department of Health awarded ESU a contract to develop a Lyme Disease Awareness and Education program and to deliver it to the local community twice in FY 2014-2015.

Investigating Tick-borne Pathogens in Lehigh Valley Ticks and Rodents

Funding Source: LEHIGH VALLEY HEALTH NETWORK

Amount Awarded: \$6,611

CO-PI: MEAGHAN BIRD

Northeast Wildlife DNA Laboratory

CO-PI: NICOLE CHINNICI

Northeast Wildlife DNA Laboratory

OVERVIEW: A total of 460 adult and nymphal black-legged ticks were collected from numerous Lehigh Valley sites to screen for infection with four human pathogens and two pathogens that are not known to cause disease in humans.

Borelia Testing for 12 Tick Pools

Funding Source: MISERICORDIA UNIVERSITY

Amount Awarded: \$175

CO-PI: MEAGHAN BIRD

Northeast Wildlife DNA Laboratory

CO-PI: NICOLE CHINNICI

Northeast Wildlife DNA Laboratory

OVERVIEW: In collaboration with Misericordia University, ticks were collected from small mammals trapped in Northeastern, PA. Ticks were tested for *Borrelia burgdorferi* and results were included in a Misericordia undergraduate research project "The Effect Habitat Selection has on the Prevalence of Lyme Disease in Northeastern Pennsylvania."

Genetic Analysis Services

Funding Source: ARIZONA GAME AND FISH DEPARTMENT

Amount Awarded: \$11,370

CO-PI: MEAGHAN BIRD

Northeast Wildlife DNA Laboratory

CO-PI: NICOLE CHINNICI

Northeast Wildlife DNA Laboratory

OVERVIEW: A total of 111 snails were collected from 15 fresh water springs throughout Arizona. Samples were sent to the DNA Lab for genetic analysis. A variable region of the mitochondrial COI gene was analyzed to identify species of snails. Genetic divergence within species and between sampling sites were evaluated.

Genetic Analysis Services

Funding Source: NEW JERSEY DIVISION OF FISH AND WILDLIFE

Amount Awarded: \$2,300

CO-PI: MEAGHAN BIRD

Northeast Wildlife DNA Laboratory

CO-PI: NICOLE CHINNICI

Northeast Wildlife DNA Laboratory

OVERVIEW: Fin clippings of hatchery brown trout, wild brown trout and six brown trout diagnosed with furunculosis were submitted to the DNA Lab for genetic analysis. Genetic profiles of fish were created and populations were analyzed for genetic diversity.

2015 Conserve Wildlife Matching Grant: ESU Genetic Profile of Wood Turtles

Funding Source: NEW JERSEY ENVIRONMENTAL PROTECTION AGENCY

Amount Awarded: \$3,500

CO-PI: MEAGHAN BIRD

Northeast Wildlife DNA Laboratory

CO-PI: NICOLE CHINNICI

Northeast Wildlife DNA Laboratory

OVERVIEW: Professor Huffman's project requires constructing genotypic profiles of wood turtles from drainage basins in NJ. The development of genetic profiles will be used in the conservation and protection of wood turtle populations in NJ. The genetic profiles will also provide genetic data that could be

used in determining the home origin of individual turtles taken illegally. Collection of biological samples from NJ and developing individual profiles to develop population structure profiles will enable biologists to evaluate landscape-scale ecological connections.



JAMES HUNT

College of Arts and Sciences | Biological Sciences

Identifying Indicator Species Useful for Climate Change Studies at an Oyster Restoration Site

Funding Source: FDR MAJOR LEVERAGING GRANT

Amount Requested: \$8,000

Measuring the Environmental Impact of Climate Change Associated with a Living Shores Restoration Project in Greenbackville, MD

Funding Source: FDR INTERDISCIPLINARY INCENTIVE GRANT

Amount Awarded: \$4,350

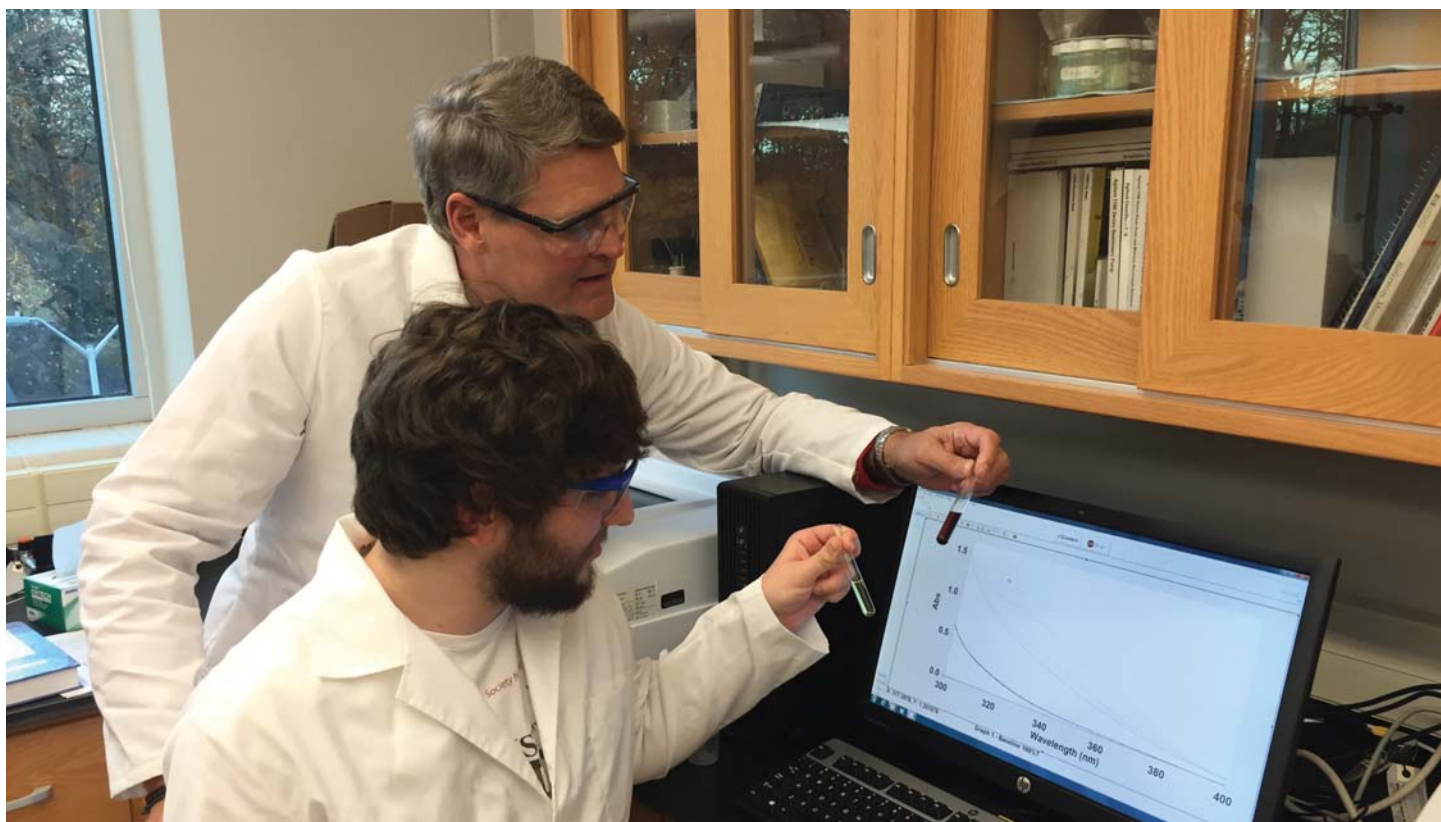
CO-PI: SHIXIONG HU

College of Arts and Sciences | Geography

Undergraduate Student Researchers: Cassandra Powell, Dawna Houser, Kyle Holiman, Andrew Million, and Drew Costenbader, biology

Graduate Student Researcher: Lucasz Niemoczynski, history and geography

OVERVIEW: Climate change is having a measurable impact on coastal communities along the eastern United States. Recent conservation efforts in one such community, Greenbackville, Maryland, have focused on restoring an oyster reef situated along a salt marsh. The reef was largely destroyed by Hurricane Sandy in 2012. The marsh property is owned by the Chincoteague Bay Field Station at the Marine Science Consortium. As senior full members of the consortium, ESU faculty are in a unique position to conduct scientific field surveys of the area and to explore the interrelationship between the biological community and the geophysical environment. Professor Hunt and Professor Hu's study will be of



Professor Richard Kelly with student researcher Bruno Benassini in the laboratory

tremendous value to the broader scientific community because the lower Chesapeake Estuary region is currently experiencing the greatest environmental impacts from climate change induced sea level rise in the continental United States. The project provided a unique, meaningful opportunity for ESU students to pursue research on restoration, conservation, field ecology, and geographic modeling.

RICHARD KELLY

College of Arts and Sciences | Chemistry

Transforming Undergraduate Education in Science, Technology, Engineering and Math (TUES), E-learning Modules Chemistry

Funding Source: NATIONAL SCIENCE FOUNDATION

Amount Awarded: \$13,684

OVERVIEW: This ongoing sub-award from Bates College provided funding for inquiry and problem-based curricular materials for undergraduate analytical chemistry education, which was developed and implemented by a team of faculty members from 20 colleges and universities. The materials

include inquiry-oriented modules on analytical techniques and methods and integrated instruction in traditional analytical content with broader scientific problems. Participants in this project created new learning materials, developed faculty expertise in the utilization of inquiry-based teaching strategies, and implemented these educational innovations. The grant was extended through 2015.

Establishment of a Regional Analysis Laboratory for Winemakers, Brewers, and Distillers

Funding Source: ENTREPRENEURSHIP ACROSS THE COLLEGES

Amount Awarded: \$2,030

CO-PI: JON GOLD

College of Arts and Sciences | Chemistry

Undergraduate Student Researcher: Bruno Benassini, biochemistry and chemical biotechnology

OVERVIEW: This project established a laboratory on ESU's campus for the analysis of substances of interest to the regional



winemaking industry and to brewers and distillers. Monroe and adjoining Pennsylvania counties have a growing number of companies operating as wineries, distillers, and brewers. With ESU serving as a technical resource for such companies, new opportunities for faculty and students will arise, furthering economic activity and

prosperity in the region. Bruno Benassini, an undergraduate majoring in biochemistry and chemical biotechnology, is currently enrolled in an independent study course entitled "Wine Analysis Laboratory." The researchers and students are currently collaborating with Linda '92 and Randy Rice, proprietors of Mountain View Vineyard in Stroudsburg, PA.

IRINA KHUSID

College of Arts and Sciences | Psychology

Credit WI\$E Warriors Program

Funding Source: HIGHER ONE FOUNDATION

Amount Requested: \$3,992

CO-PI: SHEILA HANDY

College of Business and Management | Business Management

CO-PI: JACK TRUSCHEL

University College | Academic Enrichment and Learning

OVERVIEW: The Credit WI\$E Warriors program proposed to provide the necessary knowledge to help incoming students avoid further financial mistakes and provide students with a personal finance skill set. Students will learn how to pay bills on time, develop a budget, balance a checkbook, and use credit cards wisely. Students will gain an understanding of credit card policies, terms of student loans, and fundamentals of interest rates. After completing the Credit WI\$E Warriors program, students will be better equipped to effectively manage their personal finances.

HEON KIM

College of Arts and Sciences | Philosophy and Religious Studies

Attendance at the World Phenomenology Institute's 2015 Cambridge Conference

Funding Source: FDR MINI GRANT

Amount Awarded: \$1,107

OVERVIEW: Attending this conference enhanced Professor Kim's research agenda and enabled him to gain a deeper knowledge of phenomenology for more effective teaching and helped enrich his pedagogical skill-sets based on phenomenological reduction. Professor Kim is now using this deepened phenomenological pedagogy in several of his courses.

THOMAS LADUKE

College of Arts and Sciences | Biological Sciences

Long-Term Population Monitoring of the Timber Rattlesnake in Pennsylvania

Funding Source: PA FISH AND BOAT COMMISSION (PFBC)

Amount Awarded: \$236,239

Undergraduate Student Researchers: Corey Janusz, John Adamski, Eric Januszkiewicz, biology

Graduate Student Researchers: Nikolai Kolba, geography; Kevin Juchno, Sebastian Harris, Kelly Murman, biology



*Kelly Murman
Graduate Student Researcher, biology*

ESU Alumna Researcher: Courtney Farabaugh, biology

OVERVIEW: The timber rattlesnake has been considered a high priority species in need of conservation measures in Pennsylvania. The Pennsylvania Fish and Boat Commission (PFBC) has diligently studied this rattlesnake for the last nine years. These past studies have indicated that this species is more abundant and widespread than previously understood and it has been recommended for de-listing on the basis of these findings by the Pennsylvania Biological Survey Amphibian and Reptile Technical Committee (PABS ARTC). This study proposed to develop protocols for continued monitoring of the species using mark and recapture methods in combination with GIS technology for monitoring of potential threats. Intensive study of a sample of timber rattlesnake populations in Pennsylvania will provide data necessary to estimate detectability parameters that can be used to reliably estimate population size from mark and recapture data with minimal expense.

CARRIE MALONEY

College of Arts & Sciences | Sociology, Social Work & Criminal Justice

Probation Officers' Compliance with the Youth Level of Service Inventory: Case Management Inventory (YLS/CMI)

Funding Source: NATIONAL INSTITUTE OF JUSTICE (NIJ)
Amount Requested: \$37,792

OVERVIEW: The risk/needs assessment (RNA) tools represent the cornerstone of decision-making within the Risk-Needs-Responsivity (RNR) model of human services decision-making, yet little research examines how RNAs are used in practice. Professor Maloney, in collaboration with Rutgers University, is undergoing a two-year project that is examining county operational policies, organizational dynamics, community/jurisdictional context, officer characteristics, and officers' actual use of the YLS/CMI. It will begin with in-depth fieldwork across five diverse counties, selected for variation in size, urbanization, and levels of compliance with the YLS/CMI measured by an earlier statewide survey. The grant offered Professor Maloney a sub-award for her research. This study has the potential to advance the academic knowledge of RNA implementation within a criminal justice context, therefore making a broader contribution to translational criminology and implementation science. Additionally, this research will provide a set of good

practice guidelines to assist policy-makers implementing and using RNAs.

Practitioner Compliance with Risk/Needs Assessment Tools: A Pennsylvania Case Study

Funding Source: FDR MAJOR LEVERAGING GRANT
Amount Awarded: \$7,553

OVERVIEW: This research examined juvenile justice practitioner compliance with the use of structured risk/needs assessment instruments. In Pennsylvania, juvenile justice stakeholders have implemented the Youth Level of Service Inventory (YLS), a youth offender-specific assessment instrument for use in juvenile probation that helps determine a youth's risk to self and community, as well as key areas of "criminogenic need," or those areas consistently linked to re-offending if left untreated. Professor Maloney's research examined Pennsylvania juvenile probation officer compliance with the YLS in depth by administering a survey to all juvenile probation officers across the state, in order to identify key areas of, and reasons for, non-compliance. This research has the potential to create a pathway for later development of intervention strategies that may increase compliance and satisfaction with the YLS in Pennsylvania, and therefore produce more successful outcomes for youth.

ROBERT MARMELSTEIN

College of Arts and Sciences | Computer Science

Automated Strategy Agent for Stock Market Trading

Funding Source: FDR INTERDISCIPLINARY INCENTIVE GRANT
Amount Awarded: \$4,284





Cassie Baun, undergraduate in biology, with a broad-winged hawk

CO-PI: TODD BEHR

College of Business and Management | Economics and Finance

CO-PI: PATTABIRAMAN NEELAKANTAN

College of Business and Management | Economics and Finance

OVERVIEW: Developing automated stock trading algorithms is an extremely active area of academic research. Automated systems that leverage a variety of real-time data sources to make better-than-human decisions have wide application beyond the financial realm, including Defense and Homeland Security. This project seeks to expand the capabilities of a Stock Strategist Agent (SSA) developed by Professor Marmelstein in 2011-2012. The SSA is a program that can make autonomous trading decisions for a given trading strategy based on daily monitoring of the performance of selected stocks. The goal of the SSA is to maximize trading profits over a given time period. Further, with the explosive growth of "Big Data" research and the applications of this technology, the completion of this project will enable the group to compete for grants in the areas of data mining, informatics, and intelligent agents.

TERRY MASTER

College of Arts and Sciences | Biological Sciences

Nesting and Migratory Behavior of Broad-winged Hawks on the Pocono Plateau

Funding Source: FDR MAJOR LEVERAGING GRANT

Amount Awarded: \$7,781

Undergraduate Student Researchers: Randy Farley, environmental studies and Cassie Baun, biology

Graduate Student Researcher: Rebecca McCabe, biology

OVERVIEW: Graduate student Rebecca McCabe began this research project as an intern at Hawk Mountain Sanctuary three years ago. Her coming to ESU to pursue her master's degree in biology provided Professor Master the opportunity to compare nesting observations, habitat use, and migratory behavior between highly fragmented habitat in southeastern Pennsylvania and the more contiguous forested habitats of the Poconos. Nesting observations of six local nests were conducted through direct observation as well as through the use of remote cameras. Migratory behavior is being investigated by affixing solar powered, satellite transmitters to nesting



David Mazure, "New Mythologies"

adults allowing them to be tracked to and from their wintering grounds in Central and South America. The data collected and analyzed by R. McCabe and her research team will highlight conservation needs and form the basis of a management plan for this species whose nesting population has declined in Pennsylvania by 16 percent in the past 20 years.

DAVID MAZURE

College of Arts and Sciences | Art + Design

The Little Mermaid Vinyl Print Series

Funding Source: FDR MINI GRANT

Amount Awarded: \$1,310

OVERVIEW: Professor Mazure's series uses current trends in the art world to re-imagine an old myth, with hopes of making it contemporarily relevant and to propel the art of myth-making forward into the future by shedding fictional, imagined stories with actual events touching upon current societal issues. This project furthered the experiential nature of Professor Mazure's work by including his first-ever color-based experimental, optical illusion floor installation. The Little Mermaid is a 108"W x 144"H, modular, clear

vinyl print series incorporating a repeating pattern affixed to clear 18"W x 24"H Plexiglas sheets. The Plexiglas sheets sit atop a large digital print of a solitary female figure drowning under water. ESU alumna and artist Lindsay Godin participated in the photographic portion of this project. The installation first appeared at a solo exhibition at the Allison Gallery in Greenville, TN and then was moved to the next solo exhibition at the Sordoni Gallery in Wilkes-Barre, PA.

ANNIE MENDOZA

College of Arts and Sciences | Modern Languages

Third Annual Latino Heritage Month Film Festival

Funding Source: PRAGDA SPANISH FILM CLUB

Amount Awarded: \$1,250

Funding Source: ENTREPRENEURSHIP ACROSS THE COLLEGES

Amount Awarded: \$1,000

OVERVIEW: In an effort to bring awareness of the diversity of Hispanics and Latinos to the students and surrounding

communities of ESU and the Poconos, Professor Mendoza has organized a Latin Film Festival for the past three years. Each year ESU celebrates *Latino Heritage Month* between September and October with a variety of cultural and academic events as part of this larger national celebration. The Latino Film Festival helps expand the world view of the racial, ethnic, cultural, linguistic (amongst other identities) and heterogeneity of Latino/Hispanic communities. The films chosen by Professor Mendoza bring forward themes that highlight interrelated issues of gender, sexuality, and class awareness. This film festival was open to the whole ESU community, as well as to the public. The films helped raise awareness of the diverse cultures of Hispanic communities abroad and in the United States. This festival continued to strengthen existing ties that ESU has with the surrounding geographic regions, and in particular with the growing Latino communities of ESU, the Poconos, and other nearby areas.



JONI OYE-BENINTENDE

College of Arts and Sciences | Art + Design

5 in 3-D

Funding Source: POCONO CHAPTER PA GUILD OF CRAFTSMEN
Amount Requested: \$1,300

This grant will fund the art exhibition 5 in 3-D at ESU's Madelon Powers Art Gallery in the Fine and Performing Arts Center in spring semester of 2016. The exhibit features five artists/designers who use 3-D printing processes in their work: Darlene Farris-LaBar, associate professor in ESU's art + design

program, Doug Bucci, Bathsheba Grossman, Kacie Hultgren, and Sophie Kahn. These artists represent diverse visions in their creative use of the technology most associated with industrial uses.

3-D Printing Workshop with Kacie Hultgren

Funding Source: ENTREPRENEURSHIP ACROSS THE COLLEGES
Amount Awarded: \$1,400

CO-PI: DARLENE FARRIS-LABAR

College of Arts and Sciences | Art + Design

CO-PI: YOSHINORI TANOKURA

College of Arts and Sciences | Theatre

OVERVIEW: This 3-D printing workshop was open to the community and served over 50 ESU students and 50 community members. The purpose of the workshop was to introduce, inform, and educate ESU students and the community about 3-D printing: the uses, the design software, and the possible entrepreneurial opportunities. Art + Design and Theater students received instruction tailored to their specific career interests. Both groups learned how K. Hultgren parlayed her interest in 3-D printing into a business model encompassing, not only a marketable product, but also an educational service.

New York City 3-D Print Show

Funding Source: ENTREPRENEURSHIP ACROSS THE COLLEGES
Amount Awarded: \$1,821

CO-PI: DARLENE FARRIS-LABAR

College of Arts and Sciences | Art + Design

CO-PI: CHRISTINE HOFMEISTER

College of Arts and Sciences | Computer Science

OVERVIEW: This print show and education seminar offered 48 ESU students the opportunity to see the latest developments in 3-D printing and associated digital technologies. The show also offered the opportunity for these students to participate in presentations from a wide range of entrepreneurs, designers, and researchers who use the technology in product design, architectural modeling, data visualization, fine art, large manufacturing, and biomedical advancements. Non-art + design majors learned how this new technology can enhance the work they do in their own majors, exposing them to broader career options.

JEFF RUTH*College of Arts and Sciences | Modern Languages***Developing Student Entrepreneurs:
Coding Language Learning Apps****Funding Source:** ENTREPRENEURSHIP ACROSS
THE COLLEGES**Amount Awarded:** \$500**CO-PI: CHRISTINE HOFMEISTER***College of Arts and Sciences | Computer Science***Graduate Student Researcher:** Aakashdeep Goyal,
computer science

OVERVIEW: This funding aided several students in developing coded language-learning apps for use on smartphones. These apps provide a niche learning experience for language learners. In addition to this core area of project activity, a full-day workshop was developed for language educators and ESU students. Called "Digital Games in the Language Classroom," this workshop was led by a prominent researcher, Professor Julie Sykes (director of the national foreign language center CASLS) and allowed participants to experience gamified language learning via a number of online apps, as well as create the base for their own apps. The collaborative interdisciplinary work between Modern Languages and Computer Science, fostered because of this grant, continues.

HOWARD WHIDDEN*College of Arts and Sciences | Biological Sciences***Assessment of Bat Populations in the Upper
Delaware Scenic & Recreational River Corridor****Funding Source:** NATIONAL PARK SERVICE**Amounts Awarded:** \$12,000; \$2,480

OVERVIEW: Bat populations in the Upper Delaware have been monitored since 2007 and continued monitoring is imperative to ensure that best management practices can be implemented to protect and conserve the bat species and the bat colonies present in the park corridor. The Upper Delaware, in cooperation with ESU, used funding for acoustic monitoring in the park, bat educational programs, emergence counts at known bat roosts, and installation of bat boxes. The results from previous years were used in comparison to detect changes in species diversity, spatial distribution, and colony size.

JENNIFER WHITE*College of Arts and Sciences | Biological Sciences***Female Reproductive Morphology of
Pennsylvania Bats****Funding Source:** FDR MINI GRANT**Amount Awarded:** \$1,344**Graduate Student Researcher:** Shelby Giblin, biology

OVERVIEW: This funding contributed to Professor White's ongoing studies of the reproductive morphology of three species of tree-roosting migratory bats native to Pennsylvania. Increased understanding of reproductive behaviors in migratory bats may assist in the formation of effective conservation strategies. Professor White's study contributes to the limited knowledge about breeding patterns and timing of reproductive events in North American temperate bats, which have suffered from population decline in recent years.

**PAUL WILSON***College of Arts and Sciences | Biological Sciences***Envision for Success****Funding Source:** NATIONAL SCIENCE FOUNDATION (NSF)**Amount Requested:** \$377,661**CO-PI: CHRISTINE HOFMEISTER***College of Arts and Sciences | Computer Science***CO-PI: MICHELLE JONES-WILSON***College of Arts and Sciences | Chemistry***CO-PI: MARY ANN MATRAS***College of Arts and Sciences | Mathematics*

OVERVIEW: Lehigh Carbon Community College, in partnership with Bloomsburg University, ESU, and Penn State Hazleton proposed to implement a regional collaborative approach to generate sustained interest in targeted STEM disciplines through activities designed to increase students' self-efficacy and their ability to envision themselves in a STEM career. *Envision for Success*, an NSF Engaged Student Learning Design and Development Level I and II project, aims to improve undergraduate STEM education through five major activities:

employer engagement, embedded career exploration modules, integrated real-world mathematics applications specific to STEM disciplines, expanded undergraduate research and experiential learning opportunities, and an annual career pathways event.

YOSHINORI TANOKURA

College of Arts and Sciences | Theatre

Participation in Prague Quadrennial 2015

Funding Source: FDR MINI GRANT

Amount Awarded: \$1,355

Student Involvement: Madison Petro and Christopher Robinson, theatre

OVERVIEW: The Prague Quadrennial (PQ) has been a major factor in shaping the direction of world theatre and live performance for the past forty years. Professor Tanokura attended the Quadrennial and observed how much world theatre, particularly in Europe, has integrated site specific art and performance to produce non-traditional theatre performances in non-traditional spaces. The “site specific performances” have been one of Professor Tanokura’s research and lecture topics. Attending the PQ helped him gather first hand examples of this form of art and provided him with ideas for future projects and lectures. Two current students and four theatre alumni students accompanied Professor Tanokura and Professor Margaret Ball on the trip. The students learned unique approaches at the PQ that will help distinguish them from other theatre students around the world.



One of the Tribes (Moving Costume Installation) Street of Prague

COLLEGE OF Health Sciences



LuAnn Batson-Magnuson



Alberto Cardelle



Kevin Casebolt



Steve Godin



Mihye Jeong



Clare Lenhart



Steve Shive



Chad Witmer



Peng Zhang

Collab

External Grants

Health Sciences

Total Amount Funds Requested	\$824,144
Total Amount Funds Awarded	\$354,633
Number of Proposals Requested	16
Number of Proposals Awarded	11

FDR Grants

Health Sciences

Total Amount Funds Requested	\$12,574
Total Amount Funds Awarded	\$10,639
Number of FDR Proposals Requested	5
Number of FDR Proposals Awarded	4

LUANN BATSON-MAGNUSON

College of Health Sciences | Speech-Language Pathology

Publication of Scholarly Article in Psychology and Education Journal

Funding Source: FDR MINI GRANT

Amount Awarded: \$348

OVERVIEW: This grant covered publishing costs for an article associated with Professor Batson-Magnuson's research, "A Comparison of the Predictive Validity of DIAL-R and DIAL-3 for Subsequent Special Education Eligibility" in the Psychology and Education Journal.

ALBERTO CARDELLE

College of Health Sciences | The Institute for Public Health Research and Innovation

CAPP Program

Funding Source: CENTERS FOR DISEASE CONTROL (CDC) – CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)

Amount Awarded: \$8,000

OVERVIEW: Professor Cardelle provided technical assistance to the Community Asthma Prevention Program (CAPP), which

offers free asthma education classes in familiar environments, such as schools, churches, daycare centers and community centers throughout Philadelphia. Classes are structured so both caregivers and children with asthma can learn simultaneously. Professor Cardelle provided technical assistance to CAPP staff and other collaborative partners throughout the contract period to enhance stakeholders' ability to conduct evaluation, to improve program planning and implementation, and to increase outcomes and accountability.

Mental Health Services Needs Assessment

Funding Source: POCONO MEDICAL CENTER

Amount Awarded: \$2,750

OVERVIEW: Behavioral Health for All (BHFA) commissioned a study to conduct a community mental health and addiction needs assessment for Monroe County. The purpose was to determine the current needs, strengths, and gaps in the local mental health system with the intention to aid community stakeholders in understanding priority areas that should be addressed to create a mental health system that meets the needs of the community. Additionally, information gathered through the process will also serve as an education tool regarding the types of services provided in the region.

Live Healthy PA

Funding Source: CENTERS FOR DISEASE CONTROL AND PREVENTION (CDC) – PA Department of Health (PA DOH)

Amounts Awarded: \$177,827; \$40,000, \$10,000

CO-PI: STEVEN GODIN

College of Health Sciences | Health Studies | The Institute for Public Health Research and Innovation

Graduate Student Researchers: John Turella, Jessica Sikora, and Marissa Modica, health sciences

OVERVIEW: This grant was a continuation of the original *Live Healthy PA* grant. Drs. Cardelle and Godin identified partners and contractors in an effort to begin the development of an individual evaluation plan (IEP) which allows the Pennsylvania Department of Health and all its interested stakeholders to determine the meeting of objectives, improvement of program implementation, provide accountability to funders, community and stakeholders, and inform policy decisions about the replication of similar type of activities across various chronic diseases.

Comprehensive Asthma Control Through Evidence-based Strategies and Public Health-Health Care Collaboration

Funding Source: CENTERS FOR DISEASE CONTROL AND PREVENTION (CDC) – PA DEPARTMENT OF HEALTH (PA DOH)

Amounts Awarded: \$19,649; \$4,555; \$1,888

OVERVIEW: ESU's Graduate School of Public Health has implemented the CDC's approved evaluation plans for the Asthma Control program, including: development of data collection tools; collection and analysis of relevant data; assessment of programmatic impact; monitoring and analysis of changes in policy and environmental conditions; and production of reports and publications to disseminate results, findings and key recommendations.



Steven Godin and Alberto Cardelle

KEVIN CASEBOLT

College of Health Sciences | Athletic Training

Attending a Workshop at Presentation at National SHAPE Convention, Seattle, WA

Funding Source: FDR MINI GRANT

Amount Requested: \$1,500

STEVEN GODIN

College of Health Sciences | Health Studies | The Institute for Public Health Research and Innovation

Academic-Community Partnership Conference Series: Monroe Partnerships for Health: Building Organizational Capacity to Prevent Adult and Child Obesity

Funding Source: NATIONAL INSTITUTES OF HEALTH (NIH)

Amount Requested: \$88,725

CO-PI: ALBERTO CARDELLE

College of Health Sciences | The Institute for Public Health Research and Innovation

OVERVIEW: This proposal sought funding for an academic-community partnership project to build organizational capacity to prevent adult and child obesity in Monroe County. The proposed approach was evidence-based, addressing workforce development along with parental/caretaker behaviors,

concurrent with the behaviors of toddlers and pre-school children. Critical elements in obesity prevention efforts include: increasing breast feeding, increasing fruit and vegetable intake while reducing energy dense foods, reducing intake of sugar-sweetened drinks, reducing portion sizes, reducing snacking, increasing water intake, monitoring child's appropriate amounts of sleep, and changes in daily recreation activities and household routines (i.e., reduced sedentary TV watching while increasing physical activities).

HRSA Dual Degree Program

Funding Source: HEALTH RESOURCES AND SERVICES ADMINISTRATION – THE COMMONWEALTH MEDICAL COLLEGE (TCMC)

Amount Awarded: \$70,000

Graduate Student Researchers: Shalane Vitris, Kanika Sharma, Eva Marie Poliquin, Kristina Zwolenik, and Vanessa Kehr Wheeler, health sciences

OVERVIEW: Professor Steven Godin worked with The Commonwealth Medical College (TCMC) to recruit students for the 3rd year cohort of this program and developed an internship database for students ready to complete the internship requirement of the Public Health Certificate. He will continue to work closely with the TCMC Principal Investigator to ensure that TCMC medical students are integrated into ESU courses. Professor Alberto Cardelle provides assistance to Professor Godin regarding overall grant administration.

Transforming a Medical School into a Community Hub of Cancer Prevention

Funding Source: NATIONAL INSTITUTES OF HEALTH (NIH) – THE COMMONWEALTH MEDICAL COLLEGE

Amount Requested: \$14,582

CO-PI: CLARE LENHART

College of Health Sciences | Health Studies

OVERVIEW: This project would include Cancer Awareness and Prevention (CAP) mentors to be trained during an intensive nine-week summer session. They would then deliver awareness programs during the following academic year, and nine months afterwards return to The Commonwealth Medical College (TCMC) for a “reunion day” and debriefing. The program would include training in cancer biology, screening, responsible conduct of

research, nutrition, physical activity, motivational psychology, leadership, and communication skills. The five-year program would train over 140 CAP mentors and result in over 700 CAP presentations, events, and surveys organized by our trainees.

MIHYE JEONG

College Health Sciences | Physical Education Teacher Education

Attendance at Statistics: Research Methods Workshops

Funding Source: FDR MINI GRANT

Amount Awarded: \$1,112

OVERVIEW: Structural Equation Model (SEM) is a powerful, multivariate analysis technique to test conceptual or theoretical models. Professor Jeong attended several workshops, learning a technique to use and manipulate the SPSS AMOS software program, which strengthened her knowledge of SEM. Having advanced methodological knowledge in statistics will help Professor Jeong publish more research manuscripts.

Eliminating Health Disparities among People with Disabilities: Physical Activity

Funding Source: FACULTY PROFESSIONAL DEVELOPMENT COUNCIL (FPDC)

Amount Requested: \$7,050

STEVE SHIVE

College of Health Sciences | Health Studies

Hypertension among Midlife Koreans: Risk Factor Identification and Intervention for Enhanced Dietary and Physical Activity Regimen Adherence

Funding Source: NATIONAL INSTITUTES OF HEALTH (NIH)

Amount Requested: \$350,354

OVERVIEW: This project would develop and pilot a new culturally-tailored hypertension preventive intervention leading to an increase in self-efficacy and regimen adherence by identification of non-cognizant opportunities for physical activity of daily living and healthy nutritive intake among Koreans ages 50-64.



IDEAL

Funding Source: TEMPLE UNIVERSITY

Amount Awarded: \$11,000

OVERVIEW: Professor Shive received a contract with Temple University to provide services in the frame of a CDC REACH funded program, the IDEAL project, which seeks to increase access to environments with healthy food or beverage options among Asian Americans in the Philadelphia Metropolitan area from 0 percent to 75 percent by September 2017.

State Lead Program

Funding Source: PA DEPARTMENT OF HEALTH (PA DOH)

Amount Awarded: \$8,964

OVERVIEW: This grant supported a project to educate current and potential renters who may have little or no knowledge on the subject of lead poisoning and other potential hazards in the home by supporting education seminars with a dual curriculum:

one for adults and one for elementary school-aged children with written materials in both English and Spanish, as well as outreach materials. The project was conducted in Monroe County and South Bethlehem.

Use of Simulaid and Moulage in Emergency Care Education

Funding Source: ENTREPRENEURSHIP ACROSS THE COLLEGES

Amount Awarded: \$762

OVERVIEW: Moulage is the art of applying mock injuries for the purpose of training Emergency Response personnel. Studies have shown that the more realistic emergency care scenarios are, the higher participant self-confidence and competency is when confronted with the initial real emergency situation. This project fostered innovation and entrepreneurship by cultivating students' ability to see examples of simulated wounds and to be creative in making their own; additionally, the activity was

incorporated into the course, Health Emergencies. Through the utilization and promotion of simulated wounds, students became desensitized to the sight of blood and other bodily deformities. In addition, students taking the Health Emergencies course as part of the Health and Physical Education Teacher Certification program, learned how to use moulage and simulated wounds in first aid lessons that they may teach in the future. This course serves five programs and five departments: Health Studies (Health and Physical Education teacher certification; Public Health), Athletic Training, Rehabilitation Services, Recreation Services Management, and undeclared students considering a health related field.

PENG ZHANG

College of Health Sciences | Exercise Science

Exercise is Medicine at the 6th World Congress, San Diego, CA

Funding Source: FDR MINI GRANT

Amount Awarded: \$1,355

OVERVIEW: Exercise is Medicine is a multidisciplinary, multi-organizational initiative that strives to make physical activity an integral part of health care and disease prevention around the globe. Attending this workshop significantly contributed to Professor Zhang's professional development on research and service in the area of exercise science. The experience resulted in innovative research ideas in physical activity promotion among youth as well as in disease prevention through physical activity. These ideas can be applied to initiate new service programs on ESU's campus in terms of improving campus wellness.

Development and Evaluation of a Mobile Fitness App to Promote Physical Activity in a Young Adult College Population

Funding Source: FACULTY PROFESSIONAL DEVELOPMENT COUNCIL (FPDC)

Amount Requested: \$8,800

CO-PI: STEVE GODIN

College of Health Sciences | Health Studies

Validation of the Apple Watch as an Instrument in Measuring Physical Activity

Funding Source: FDR MAJOR LEVERAGING GRANT

Amount Awarded: \$7,824

CO-PI: STEVE GODIN

College of Health Sciences | Health Studies

CO-PI: CHAD WITMER

College of Health Sciences | Exercise Science

CO-PI: DONGSHENG CHE

College of Arts and Sciences | Computer Science

Graduate Student Researchers: Matt Owens and Tom Casey, exercise science

OVERVIEW: The goal of this collaborative research was to validate the Apple Watch Workout Application for its measurement accuracy on physical activity. Specifically, the study examined the caloric expenditure recording system of Apple Watch by comparing the metabolic data from calorimeter, the golden standard. The research consisted of three stages. The first stage included data collection on 30 participants using the Apple Watch measurement versus the calorimeter on energy expenditures including 'expired gas analysis' in two physical activities: walking and running. Both were performed on a timed treadmill in the Applied Physiology Lab in Koehler Fieldhouse. Stage two involved data analytic procedures to compare and correlate energy expenditures for data collected using the Apple Watch and portable calorimeter. The final stage examined the criteria related validity by comparing these estimates derived from the Apple Watch to those to the criterion measurements derived from calorimeter. The research deliverables of this leveraging grant include the future submission of a National Institute of Health (NIH) proposal.



COLLEGE OF Business and Management



Todd Behr



Li-Ming "Stanley" Chiang



Richard Donnelly



*Robert Fleischman
CO-PI, p. 43*



*Sheila Handy
CO-PI, p. 15*



Jaedeock Lee

inV



Pattabiraman Neelakantan



Daisy Wang



Weichu Xu

**Not pictured: Qian Xie*

External Grants

Business and Management

Total Amount Requested	\$30,000
Total Amount Awarded	\$30,000
Number of Proposals Requested	2
Number of Proposals Awarded	2

FDR Grants

Business and Management

Total Amount Funds Requested	\$23,990
Total Amount Funds Awarded	\$0
Number of FDR Proposals Requested	4
Number of FDR Proposals Awarded	0

BUSINESS ECONOMIC RESEARCH GROUP (BERG)

TODD BEHR

College of Business and Management | Economics and Finance

CONSTANTINOS CHRISTOFIDES

College of Business and Management | Economics and Finance

PATTABIRAMAN NEELAKANTAN

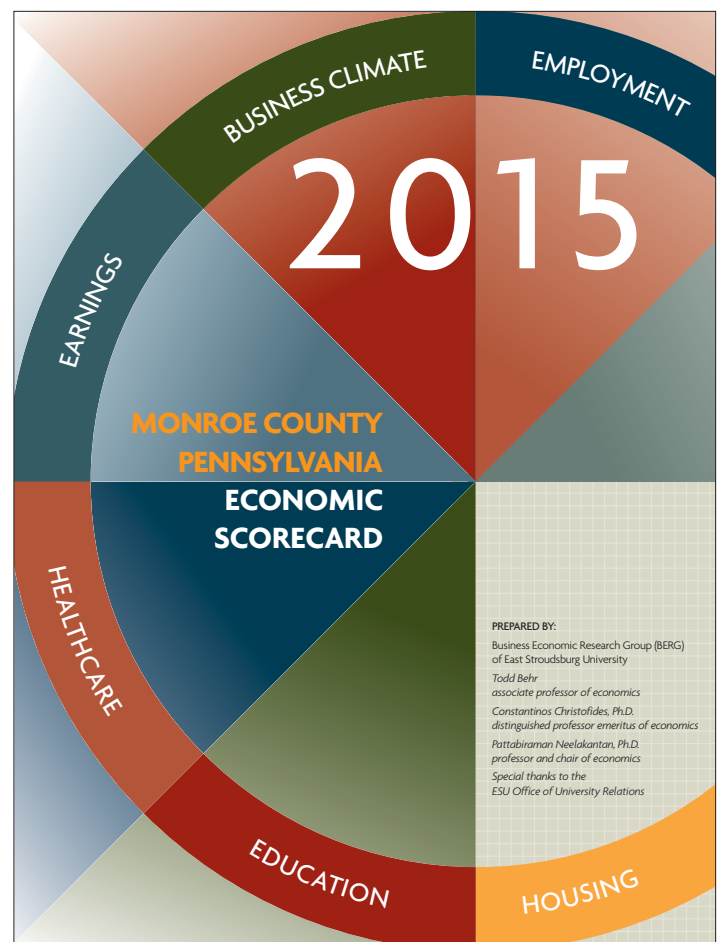
College of Business and Management | Economics and Finance

Monroe County Economic Scorecard

Funding Source: ESU'S CENTER FOR RESEARCH AND ECONOMIC DEVELOPMENT (CFRED)

Amount Awarded: \$15,000

OVERVIEW: This funding enabled members from ESU's BERG to research, analyze, and write the Monroe County Pennsylvania Economic Scorecard which addressed the following: employment, earnings, education, healthcare, and housing with a comparison of Monroe County to five counties: Pike, Northampton, Lehigh, Luzerne and Lackawanna over a ten-year comparative timeframe; and the inclusion of an Industry Cluster analysis. The Scorecard was distributed at the Economic Outlook Summit themed Leading Change – Thinking Outside the Box on Friday, September 11, 2015 held in ESU's Mattioli Center.



TODD BEHR

College of Business and Management | Economics and Finance

Economic Outlook for Rural Pennsylvania over the Next 10 Years

Funding Source: CENTER FOR RURAL PENNSYLVANIA

Amount Awarded: \$15,000

CO-PI: PATTABIRAMAN NEELAKANTAN

College of Business and Management | Economics and Finance

OVERVIEW: This research looked at forecasts of national, state, and local area data that were modified to generate economic forecasts for industry, employment, wages, and education and skill needs for Pennsylvania's rural counties. The researchers examined state policies and initiatives to determine their impact on economic growth. Additionally, state education and training programs were analyzed to consider their ability to provide future industry and workforce needs.

LI-MING "STANLEY" CHIANG

College of Business and Management | Hotel, Restaurant, and Tourism Management

A Comprehensive Analysis of Tourism Motivation and Market Segmentation in the Pocono Mountains

Funding Source: FDR MAJOR LEVERAGING GRANT

Amount Requested: \$7,290

CO-PI: RICHARD DONNELLY

College of Business and Management | Hotel, Restaurant, and Tourism Management

CO-PI: QIAN XIE

College of Business and Management | Business Management

DAISY WANG

College of Business and Management | Business Management

International Entrepreneurship Studies in Africa

Funding Source: FDR MAJOR LEVERAGING GRANT

Amount Requested: \$8,000

Applying Supply Chain Management to Professional Sports

Funding Source: FDR INTERDISCIPLINARY INCENTIVE GRANT

Amount Requested: \$4,350

CO-PI: JAEDEOCK LEE

College of Business and Management | Sport Management

CO-PI: LI-MING "STANLEY" CHIANG

College of Business and Management | Hotel, Restaurant, and Tourism Management

WEICHU XU

College of Business and Management | Business Management

Design Mobile APP to Manage Documents

Funding Source: FDR INTERDISCIPLINARY INCENTIVE GRANT

Amount Requested: \$4,350

CO-PI: DONGSHENG CHE

College of Arts and Sciences | Computer Science

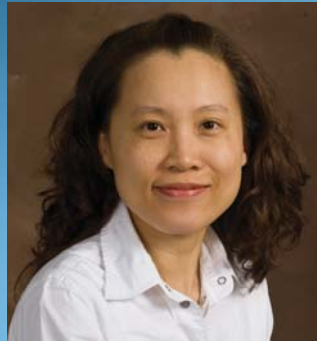
COLLEGE OF Education



Nurun Begum



Domenico Cavauiolo



Yi-Hui Huang



Richard Otto



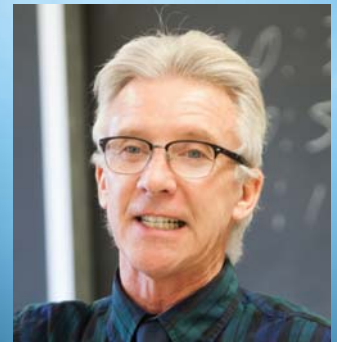
Beth Sockman



Rhonda Sutton



Carol Walker



Craig Wilson

Insp

External Grants**Education**

Total Amount Funds Requested	\$40,479
Total Amount Funds Awarded	\$22,000
Number of Proposals Requested	4
Number of Proposals Awarded	2

FDR Grants**Education**

Total Amount Funds Requested	\$9,587
Total Amount Funds Awarded	\$6,946
Number of FDR Proposals Requested	5
Number of FDR Proposals Awarded	4

NURUN BEGUM*College of Education | Early Childhood and Elementary Education***Urban Education Thematic Interest Group, University College in Copenhagen (UCC), Copenhagen, Denmark****Funding Source:** FDR MINI GRANT**Amount Awarded:** \$1,355

OVERVIEW: The European Teacher Educator Network has an Urban Education Thematic Interest Group that includes researchers from different European countries and the United States. With this grant, Professor Begum attended the conference to recruit academic writers for chapters of her book *Urban Education Around the World* which has emerged from her research interest in cultural diversity and urban education in America. Professor Begum expanded her research to focus on the nature of urban education in countries with high immigrant populations, the challenges each country faces, and the initiative the countries have taken to deal with the challenges.

Factors that Influence Minority Enrollment in Rural College: A Qualitative Analysis**Funding Source:** FDR INTERDISCIPLINARY INCENTIVE GRANT**Amount Awarded:** \$3,637**CO-PI: ESTHER DAGANZO-CANTENS***College of Arts and Sciences | Modern Languages***OVERVIEW:** This research investigated the factors that influence

minority students in choosing ESU as their preferred institution of higher education. The study proposed to identify factors that influence this decision, the factors that positively influence the minority students to continue their education at ESU, and the challenges that minority students face at ESU. The researchers also inventoried the minority students' suggestions for ESU in helping minority students succeed and feel comfortable in the university setting.

DOMENICO CAVAIUOLO*College of Education | Special Education and Rehabilitation***Access to College-Employment Success (ACES) for Career Independent Living and Learning Studies (CILLS)****Funding Source:** D.R.E.A.M. PARTNERSHIP**Amount Requested:** \$50,000, *Reflected in Student Affairs metrics***CO-PI: DARIA WIELEBINSKI***Student Affairs | Career Development Center*

OVERVIEW: ESU's CILLS program, sponsored by the College of Education, Department of Special Education & Rehabilitation, the Career Development Center and Conference Services, is a three-year program where individuals with intellectual disabilities gain a college experience and develop skills to enhance their abilities to live and work within their communities. It is a standalone certificate program and not a degree program. CILLS sought funding to successfully continue

its existing program, offer scholarships, and expand its employer transition services in response to the D.R.E.A.M Partnership's request for proposals to create high-quality, inclusive model, postsecondary education (PSE) programs for students with intellectual disabilities at two or four year colleges or universities in Pennsylvania. The proposed outcomes of the proposal included academic enrichment, enhanced socialization, increased independent living skills, and the attainment of competitive employment.

YI-HUI HUANG

College of Education | Digital Media Technologies

Photographic Project: Documenting Hometown, New Taipei City, Taiwan

Funding Source: FDR MINI GRANT

Amount Awarded: \$1,305

OVERVIEW: Due to rapid changes occurring in Professor Huang's hometown, the Hsinchuang District of New Taipei City, Taiwan, including civil developments, urban landscapes, and growth of population, Professor Huang knew the importance of photographing and documenting these historical transitions. This grant helped fund this project that she will share with her students.

BETH SOCKMAN

College of Education | Digital Media Technologies

Classroom-Community-Collaboration: The 3 C'S Solve Real Problems Across Disciplines

Funding Source: FPDC INNOVATIONS IN TEACHING

Amount Requested: \$8,678

RHONDA SUTTON

College of Education | Reading

National Writing Project-Assignments Matter

Funding Source: BILL AND MELINDA GATES FOUNDATION | NATIONAL WRITING PROJECT

Amount Awarded: \$2,000

OVERVIEW: This grant opportunity introduced a large number of teachers to the Literacy Design Collaboration (LDC) and its tools for making and sharing writing assignments. Specifically, teachers were introduced to the LDC task bank and jurying rubric, tools meant to support teachers in creating clear and meaningful writing prompts. ESU received this grant to support local, on-site work plus travel support to send an ESU site



liaison to the 2014 Annual Meeting, the 2015 Spring Meeting, and the 2015 Annual Meeting of the National Writing Project.

Professional Development in a High-Need School

Funding Source: US DEPARTMENT OF EDUCATION

Amount Awarded: \$20,000

OVERVIEW: The Northeastern Pennsylvania Writing Project (NPWP) supports and develops teacher leaders as a central focus of their work. This includes the recruitment of and support for new teacher leaders through invitational institutes and continuing support for Teacher Consultants. This grant expanded and developed teacher leadership to improve the teaching of writing and learning in the nation's schools. The goal of this funding was to provide new learning opportunities for a minimum of twenty teacher leaders in Northeast Pennsylvania over the course of the two-year grant. The leadership opportunities equip teachers to be inquiry-focused and active participants in an educational landscape of new standards and technological innovation.

RICHARD OTTO

College of Education | Digital Media Technologies

2014 Content and Communications World (CCW) Conference and Tradeshow, New York, NY

Funding Source: FDR MINI GRANT

Amount Awarded: \$648

OVERVIEW: The CCW is the largest and most powerful media, entertainment, video and communications technology conference and exposition on the East Coast of the United States. This robust training program is designed for digital media professionals including editors, producers, directors, graphic artists, motion graphics designers and new media specialists in production and post, commercial video, distribution and delivery, and independent films. Because of this funding, Professor Otto was able to interact with technology professionals displaying cutting edge production equipment that ESU students will be using in the coming years. Additionally, Professor Otto participated in professional training in Future Media Concepts, a complicated software used in creative production, taught by industry professionals from all across the country.



CAROL WALKER

College of Education | Digital Media Technologies

Motivating Learning and Differentiating Instruction Using Web 2.0 Content Curating Tools

Funding Source: FDR MINI GRANT

Amount Requested: \$1,500

CRAIG WILSON

College of Education | Early Childhood and Elementary Education

The Effects of Manipulative-Based Instruction on the Achievement and Attitudes of Fourth and Fifth Grade Students

Funding Source: FACULTY PROFESSIONAL DEVELOPMENT COUNCIL (FPDC) GRANT

Amount Requested: \$9,800

University College



Fernando Perez



Uriel Trujillo



Jack Truschel
CO-PI, p. 15

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External Grants

University College

Total Amount Funds Requested	\$647,103
Total Amount Funds Awarded	\$647,103
Number of Proposals Requested	2
Number of Proposals Awarded	2

FERNANDO PEREZ

University College

TRIO Student Support Services

Funding Source: US DEPARTMENT OF EDUCATION

Amount Awarded: \$238,496

OVERVIEW: The goal of the Student Support Services program is to increase the number of disadvantaged, low-income, first-generation or disabled college students in the U.S. who successfully complete a program of study at the postsecondary level. The program has a three-pronged approach inducing academic, counseling, and socio-cultural activities to engage and assist students.

URIEL TRUJILLO

University College | Upward Bound

Upward Bound

Funding Source: US DEPARTMENT OF EDUCATION

Amount Awarded: \$416,000

OVERVIEW: As part of the Federal TRIO programs, Upward Bound provides academic services and experiences to individuals from disadvantaged backgrounds beginning in middle school. These funds helped provide academic tutoring, college preparation, instruction in core subjects, and other education-related assistance.

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University Divisions and

Academic Affairs, Administration and Finance,
Research and Economic Development,
Student Affairs, ESU Center for Research
Economic Development, ESU Foundation



Michael Gildea



Sharone Glasco



Maria Hackney



Jennifer Serowick



Kelly Smith

Affiliates



Lianna DeLuise



Gerald Ephault



Alyson Patascher



Mary Frances Postupack



Richard Santoro



Daria Wielebinski
CO-PI, p. 33



Linda Van Meter

External Grants

University Divisions and Affiliates

Total Amount Funds Requested	\$5,154,972
Total Amount Funds Awarded	\$913,535
Number of Proposals Requested	21
Number of Proposals Awarded	9

ESU FOUNDATION AND UNIVERSITY ADVANCEMENT

Community Athletic Improvement Project

Funding Source: THE R. DALE AND FRANCES M. HUGHES FOUNDATION

Amount Awarded: \$250,000

OVERVIEW: The funding supported renovations and upgrades to the Sarah Cole Hughes Athletic Complex located in Stroud Township. The enhancements, including the installation of artificial turf, will expand the usage of the Athletic Complex to include both the Stroudsburg Little League, Inc. and ESU's NCAA Division II baseball and softball teams.

ESU Student Scholarships

Funding Source: THE WILLIAM T. MORRIS FOUNDATION

Amount Awarded: \$20,000

Overview: This generous contribution represents the continued support from the William T. Morris Foundation for student scholarships at ESU.

Greenways, Trails, and Recreation Program: Community Athletic Improvement Project Phase I

Funding Source: PA DEPARTMENT OF COMMUNITY AND ECONOMIC DEVELOPMENT (DCED)

Amount Requested: \$250,000

Community Athletic Improvement Project

Funding Source: PNC FOUNDATION

Amount Requested: \$250,000

Endowment (ESU Scholarships)

Funding Source: THE R. DALE AND FRANCES M. HUGHES FOUNDATION

Amount Requested: \$50,000

Third Annual Latino Heritage Month Film Festival

Funding Source: PA COUNCIL ON THE ARTS

Amount Requested: \$1,525

CO-PI: ANNIE MENDOZA

College of Arts and Sciences | Modern Languages

3-D Printer for ESU's Art + Design Program

Funding Source: THE R. DALE AND FRANCES M. HUGHES FOUNDATION

Amount Awarded: \$202,000

CO-PI: DARLENE FARRIS-LABAR

College of Arts and Sciences | Art + Design

CO-PI: JONI OYE-BENINTENDE

College of Arts and Sciences | Art + Design

OVERVIEW: This grant allowed for the purchase of a color 3-D printer meant to enhance collaboration with other disciplines at ESU and to provide increased services to the university, community and regional businesses. The integration of 3-D design into the curriculum and student production of printed objects increased dramatically with the acquisition of equipment purchased through a generous grant from The R. Dale and Frances M. Hughes Foundation in 2014. That grant supported the purchase of a security system for the lab, Rhino 3-D design software for all student laptops and classroom computers, and two Makerbots, semi-portable "plug and play" 3-

D printers. All new 3-D printing initiatives will contribute to the growth of the Art and Design Department and recruitment of students.

GERALD EPHAULT

*Research and Economic Development
Entrepreneurial Leadership Center*

PASSHE Student Business Plan Coordinator

Funding Source: PENNSYLVANIA'S STATE SYSTEM OF HIGHER EDUCATION

Amount Awarded: \$30,000

OVERVIEW: This grant funded the coordinator of the system-wide Student Business Plan Competition for the 2014-15 academic year. The coordinator implemented the fourth year of the competition in accordance with procedures established in prior competitions in addition to advising the Steering Committee representing the 14 State System universities.

Student Business Plan Contest Award Ceremony

Funding Source: PENNSYLVANIA'S STATE SYSTEM OF HIGHER EDUCATION

Amount Awarded: \$800

OVERVIEW: This grant helped fund the fourth annual State System's Student Business Plan Competition and award ceremony in April 2015.

MICHAEL GILDEA

*Research and Economic Development
Business Accelerator*

Growth Accelerator Fund

Funding Source: SMALL BUSINESS ASSOCIATION (SBA)

Amount Requested: \$50,000

OVERVIEW: The ESU Business Accelerator proposed to expand its J-1 Visa Program to allow international entrepreneurs to come to the U.S. for up to five years to develop new businesses. The project was initiated by the French-American Chamber of Commerce, Philadelphia Chapter in partnership with the Welcoming Center for New Pennsylvanians, the PA Department of Community and Economic Development (DCED), and ESU.

SHARONE GLASCO

*Research and Economic Development
Office of Workforce Development*

WEDNet FY 2014-2015

Funding Source: PA DEPARTMENT OF COMMUNITY AND ECONOMIC DEVELOPMENT (DCED)

Amount Awarded: \$340,842

OVERVIEW: Funds provided through the Workforce and Economic Development Network of Pennsylvania (WEDnetPA) provide qualified employers the ability to train new and existing employees in essential skills and advanced technology. These funds are primarily distributed to advanced manufacturing and information technology companies throughout Pennsylvania.

MARIA HACKNEY

Student Affairs | University Health Services

Family Planning and STD Prevention

Funding Source: MATERNAL AND FAMILY HEALTH SERVICES, INC.

Amount Awarded: \$11,186

Overview: University Health Services provides ESU students with free reproductive health care, including STD screening, treatment, counseling and education through the Maternal Family Health Services federal grant at no, or low, cost for students. The MFHS grant provided services to 434 students.

UNIVERSITY POLICE

Online Bulletproof Vest Partnership

Funding Source: US DEPARTMENT OF JUSTICE – PA STATE POLICE

Amount Requested: \$5,779

Overview: This grant proposal was submitted to keep the ESU Police force's bulletproof vests up to date and in compliance with modern technology and new requirements for safety.

MARY FRANCES POSTUPACK

Research and Economic Development

Strengthening the Entrepreneurial Ecosystem in NEPA

Funding Source: PA DEPARTMENT OF COMMUNITY AND ECONOMIC DEVELOPMENT (DCED) - TECBRIDGE

Amount Awarded: \$40,500

Overview: This grant was a sub-award from tecBridge, and provided resources to promote entrepreneurship and bioscience initiatives in northeastern Pennsylvania through: ESU's Entrepreneurship Across the Colleges grant programs; entrepreneurial workshops; student internships; and the J-1 Entrepreneurial Ventures Program in the Pocono Mountains Keystone Innovation Zone.

JENNIFER SEROWICK

Academic Affairs | Extended Learning | Office of the Provost

First In The World (FITW): East Stroudsburg PARENT University (E.S.ParentU.)

Funding Source: US DEPARTMENT OF EDUCATION

Amount Requested: \$1,626,136

Overview: This project proposed to support a parent-focused, college literacy and enrollment program that would maximize ESU's existing adult-oriented programs and partnerships with higher education and community organizations to offer a solution to increase attainment for at-risk adults and their children. Workshops geared towards parents were intended to increase college degree attainment and literacy as well as increase the likelihood that their children would complete post-secondary credentials. The first workshop, "University 101," targets parents with high school-aged children; while the second workshop, "Parent Orientation," targets parents with children already in college. The program would require two graduate assistants to help with the administration and evaluation of the project.

KELLY SMITH

Kemp Library | Archives and Special Collections

General Preservation Assessment of the Special Collections at East Stroudsburg University

Funding Source: NATIONAL ENDOWMENT FOR THE HUMANITIES (NEH)

Amount Requested: \$5,900

Overview: Funding was requested to hire a professional consultant to conduct a general preservation assessment of two special collections in the Kemp Library: the Al Cohn Memorial Jazz Collection (ACMJC), and the Sterling Strauser Collection. In addition to being the only jazz music repository in the Pocono region, ESU also houses the largest collection of Sterling Strauser's art in the Pocono region. The assessment would include recommendations related to storage and display, equipment, lighting, temperature and relative humidity, policies, collection management, and security based on current conditions, as well as a set of recommendations for safely moving the collections to a new building. After a site visit, the consultant would provide a written report allowing ESU to set short-term and long-term preservation goals.

ALYSON PATASCHER

Student Affairs | Health Education and ATOD Prevention Services

Grant to Reduce Underage and Dangerous Drinking

Funding Source: PA LIQUOR CONTROL BOARD

Amount Awarded: \$18,207

OVERVIEW: This grant is in its second year and supported activities to reduce underage drinking among students. Activities included a social norms campaign which was facilitated by the Peer Education Alcohol Team using data from student surveys. Campus sweeps and party patrols by campus police were also funded through this grant and finally, an evaluation team was born in order to address the effectiveness of the programs.

Grant to Reduce Underage and Dangerous Drinking: PARTY Smart Means Staying Healthy

Funding Source: PA LIQUOR CONTROL BOARD (PLCB)

Amount Requested: \$39,152

OVERVIEW: This grant would increase student's awareness in regards to underage and dangerous drinking, by giving them the tools to use alcohol in a safe and responsible manner or abstain from alcohol use. The project would cover five areas that create a comprehensive environmental management approach to prevention, including: education, enforcement, community, training, and evaluation.

NCAA Innovations in Practice and Research - Step Up ESU!

Funding Source: NATIONAL COLLEGIATE ATHLETIC ASSOCIATION (NCAA)

Amount Requested: \$9,944

CO-PI: UNIVERSITY POLICE

OVERVIEW: This project proposed to implement bystander intervention at ESU. Bystander intervention is a simple and effective way to protect others in suspicious situations. Teaching young adults to intervene when they suspect high risk behavior or situations where incidents such as sexual assault or violence may occur is an important tool in reducing such crimes on college campuses and can be effective in other situations, when needed. Bystander intervention programs can be utilized as a

vital prevention program to reduce crimes and save lives, and can teach young people how to spot suspicious behavior and what to do about it.

LINDA VAN METER

Counseling & Psychological Services

The World of Post Secret: How Social Entrepreneurship Transformed a Community Art Project into a Global Phenomenon on Humanity

Funding Source: ENTREPRENEURSHIP ACROSS THE COLLEGES

Amount Awarded: \$2,500

CO-PI: JOHN KRAYBILL-GREGGO

College of Arts and Sciences | Sociology

CO-PI: ROBERT FLEISCHMAN

College of Business and Management

OVERVIEW: This project used Frank Warren's PostSecret movement and books as the focal point for student engagement and the popular author and entrepreneur visited ESU as a guest speaker. The primary objectives of this project was: 1) to introduce ESU students to an example of 'social entrepreneurship'; and how a business model of entrepreneurship can be used to identify a problem, utilize resources, and develop an innovative solution to influence positive social change; 2) to contribute to an entrepreneurial culture on campus demonstrating the positive impact of social entrepreneurship; and 3) to influence a campus culture that encourages help-seeking behaviors in students, the ability to develop resiliency, and promote behaviors that foster mental health wellness.

Where in the World...



RICHARD OTTO
New York, N.Y.

Digital Media Technologies



DARLENE FARRIS-LABAR
New York, N.Y.

Art + Design



JONI OYE-BENINTENDE
New York, N.Y.

Art + Design



CHRISTINE HOFMEISTER
New York, N.Y.

Computer Science



GLENN GEISER-GETZ
Chicago, Ill.

Communication Studies



YEVGENIY GALPERIN
Boston, Mass.

Mathematics



HEON KIM
Cambridge, Mass.

Philosophy & Religious Studies



PENG ZHANG
San Diego, Calif.

Exercise Science



STEVEN GODIN
New Orleans, La.

Health Studies



JAMES HUNT
Greenbackville Md.

Biology



JOHAN ELIASSON
Washington, D.C.



TIMOTHY CONNOLLY
San Francisco, Calif.

Philosophy & Religious Studies



ALBERTO CARDELLE
Atlanta, Ga.

College of Health Sciences

did grants take them?



JOHAN ELIASSON

Brussels, Belgium

Political Science



YOSHINORI TANOKURA

Prague, Czech Republic

Theatre



MIHYE JEONG

Seoul, South Korea

Phys. Ed. Teacher Certification



NURUN BEGUM

Copenhagen, Denmark

Early Childhood and Elementary Ed.



YI-HUI HUANG

New Taipei City, Taiwan

Digital Media Technologies

Student Research and Creative Activity Symposium, 2015

The Student Research and Creative Activity Symposium began in conjunction with the inauguration of Dr. Maria G. Welsh, ESU's 13th president, during the spring of 2013. The symposium, chaired by Bonnie Green, Ph.D., professor of psychology, and Kevin Quintero, graduate admissions coordinator, showcases the qualitative and quantitative research as well as the arts and innovative projects of undergraduate and graduate students in all of ESU's academic departments.



The third annual symposium was held April 23, 2015. The keynote speaker was Debra A. Fischer, Ph.D., an astrophysicist and professor of astronomy at Yale University, who discussed detection and characterization of exoplanets. She was a member of the team that discovered the first known multiple-planet system.

At the 2015 symposium, 189 students from virtually every major and department submitted projects. This was a 41 percent increase from 2014, and more than a 102 percent increase from the first year. The 2015 presentations were sponsored by 44 faculty and staff members.

Dr. Fischer inspired students with her knowledge and innovative approach to research.

Art + Design

Evelyn Barone
Paul Burke
Amy Corradino
Shanice Dailey
Kevina DiNicola
John Easton
Alexandra Farley
Joseph Fitzgerald
Christy Flynn
Quincy Graham
Aisling Kerr
Maryruth Maichin
Cedric Mann
Patrick McPartland
Ed Nufrio
Bailey O'Leary
Abbey Ovadia
Kaila Parkin
Tabitha Patrick
Jeff Reitz
Alisha Rohrer
Victoria Salvadge
Alyssa Seiders
Sarah Shiner
Sean Smith
Julian Tabb
Morgan Weissbach

Athletic Training

Steven Malvasi

Biological Sciences

Rebecca Jasulevicz
Raymond A. Macik

Chemistry and Physics

Michael Montone
Daniel Vagie
Tony Westpy

Communication Studies

Bari Antell
Kelly Granillo
Jessica Haasz
Danielle Nicole Perez
Melissa Valentovic

Computer Science

Kelly Cappello
James P. Carson
Nicholas DiFeo
Rudolf Geosits
Christopher L. Hauer
Justin Moore
Rick Ramgattie
Timothy Walter

Digital Media Technologies

Eman Albuhamud
Olivia Marchesani
Julie J. O'Leary
Rehab Saadoun

Economics

Ryan Adhari
Greg Chervin
John Domasiewicz
Adam Hendrickson

English

Katelin Delano
Ariel Mickey
Amanda Schreck
Crystal Smith

First Year Experience

Danae Pugh
David Waiters

Geography

Wenyue Chen
Peiyu Gao
Bingjie Han
Jingling Hu
Nan Jiang



Students replicated a Star Wars spacecraft using 3D printing technology.

Xiaoyang Qin
Li Wei
Zhaxicairang

History

Ryan Clauser

Mathematics

Alan Daher
Katie Eaton
Nathan Fegley

Erick Garcia
Liam Gibbons
Thomas Grillo
Sarah Helwa
Nicolas Joyal
Muhamadou Kaba
Philip Kreig
Alek Liskov
Daniel Macrae
Ryan McCullough
Andrew Rispin
Raymond Shiue
Kyleigh Walsh
Brianna Weaver

Modern Languages

Kelly Cappello
Valeria Echeverry
Belinda Nguyen
Debbie Della Ragione
Thomas Zayac

Political Science

Aisha Abdus-Sabur
Frederick Ackerman
Roberto Albano
Margaret Barksdale
Nichole Burkhart
Meghan Clearie
Jim Dimitriou
Chantal Fulgencio
Mary Haggerty
Kacey Jennings
Alexis Lutz
John Martocci
Liam Polinski
Anthony Ruiz
Allison Simon
Colleen Sullivan
Mathilde Tank-Munier

Professional & Secondary Education

Gabrielle Gombos

Psychology

George Abdouche
Jacqueline Cassaro
Maggie Chase
Jordan Dardas
Kaitlyn Dietrich

Savannah Doyle
Emily Fitzsimmons
Theresa Gehring
Alejandra Gomez
Sean Hall
John Herrmann
Shakeemah Hilaire
Omari Lewis
Elizabeth Mills
Kaseem Parsley
Aisha Prodani
Samantha Reilly
Alyssa Sandoval-Coscia
Carolyn Scarponi
Allan Smith
Vincent Stella
Sam Suranofsky
Adannia Ufodu

Speech-Language Pathology

Emily R. Doll
Megan Hau

Sport Management

Joseph DeMattia
Laura Flynn
Michael Paul Gabriel
Elizabeth Graeber
Thomas M. Janz
Monica Martinek
Maureen Ordnung
Brandon Phillips
Andrew Stevens
Dana Wieller

Theatre

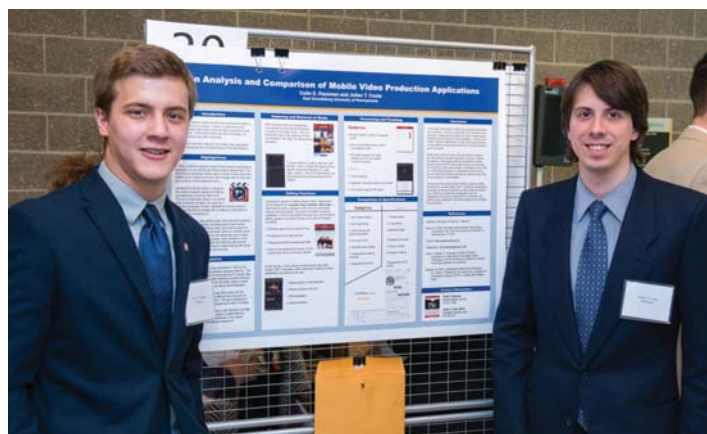
Gregory M. Alexander
Jannel Armstrong
Emily A. Botke
Asia Burnett
Eric Caulfield
Tyrell G. Clark
Ashleigh C. Coles
Dontel Ducksworth
Luis A. Feliciano
Hunter Fogel
Gabrielle M. Gombos
Michael A. Hinton
Rongze Ji
Jamil Joseph

Christopher Kusiappouh
John Lauri
Zack Lee
Ciara A. Logan
Yesu Mou
Sara R. O'Donnell
Kaseem E. Parsley
Madison C. Petro
Katherine R. Reardon
Rebecca Regina
Michelle Reyes
Christopher W. Robinson
Rebecca G. Roeber
Ayuana Rosario
Cherval S. Royster
Briana C. Schell
Andrew T. Scoggin
Brian M. Silva
Naomi Snyder
Sophia G. Thompson
Zhane A. Warner-Duncan
Destiny Washington
Yi Yu
Yanjun Zhan
Meijun Zhou

Student and Faculty Presenters

Kimberly A. Arendt
Ryan Baldwin
Meaghan Bird
Zachary D. Brennan
Jeffery Carroll
Jacqueline Cassaro

Kacie Chern
Drew Costenbader
Savannah Doyle
Ryann Fiascki
Emily Fitzsimmons
Zachary Gotthardt
Kyle Hoffman
Dawna Houser
Jane Huffman
James Hunt
Corey Janusz
Nan Jiang
Michelle Jones-Wilson
Kevin Juchno
Nikolai Kolba
Shannon Krieg
Devon Lukow
Yuan Ma
Briana Magistro
Xiang Mao
Andrew Million
Lukasz Niemoczynski
Scott O'Donnell
Cassandra Powell
Christopher Powers
Aisha Prodani
Meghan Rabon
Shaquil Roberts
Thomas Rounsville
Nelvia Ruano
Megan Santiago
Alexa Strelecki
Jennifer L. White
Taihao Zheng



Colin Passman and Julian Costa present their analysis of mobile video production applications at the 2015 Student Research and Creative Activity Symposium.

Entrepreneurship and Innovation

C.R.E.A.T.E. LAB

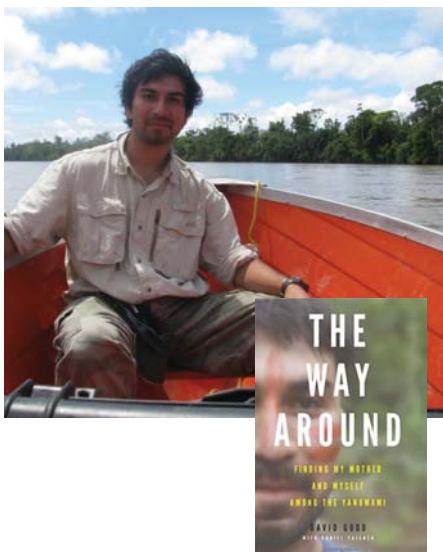


The C.R.E.A.T.E. Lab, located in Stroud Hall, brings together ESU students, faculty, and the larger community to explore materials, ideas, objects, and feelings from diverse imaginative perspectives in a unique space designed for playful engagement and meaningful innovation. The Lab was co-founded by Patricia Pinciotti, Ed.D. and Diane Cavanagh, Ed.D. C.R.E.A.T.E. stands for: Connect ideas, feelings and people through playful collaborative inquiry; Realize the curious and creative potentials within and across individuals and disciplines; Engage body, mind, heart and hands to communicate powerful, innovative ideas about teaching and learning; Attend to the aesthetic, sustainable and imaginative qualities of natural and global environment; Transform thinking through critical and creative problem posing and problem solving; Expand possibilities by listening, documenting and curating our discoveries through multiple literacies and technologies.



G3DESIGN LAB

The ESU G3Design Lab, located in the Fine and Performing Arts Center, features state-of-the-art advanced manufacturing and 3D printing technologies including 3D printers, 3D scanners, CNC laser cutter and milling machines. The Lab provides interdisciplinary opportunities for faculty, students, staff and regional businesses to explore the world of 3D printing, develop prototypes, 3D modeling and design. The art and design department has integrated the technology into course offerings with an eye toward development of a product and object design concentration.



THE GOOD PROJECT

David Good, who earned a bachelor's degree in biology from ESU in 2011 and a master's in biology from ESU in 2015, is the president and founder of The Good Project, a nonprofit humanitarian endeavor located in ESU's Innovation Center. The Good Project serves as a trustworthy bridge between remote indigenous groups and the influences of increasing contact from outsiders. The organization collaborates with existing, non-governmental organizations (NGOs), social programs and local government bodies, to provide social services such as humanitarian aid, health care assistance, and access to fair-trade initiatives. Good's inspiration came from his roots and his relationship with his mother. Good and his mother, Yarima, are members of the Yanomamo tribe residing in the Amazonas territory of southeastern Venezuela. This tribe has been syndicated internationally and has been the subject of much research among social scientists over the past half-century as it was considered to be one of the remaining groups still living in a society with relatively minimal or no contact with the outside world.

THE INSTITUTE FOR PUBLIC HEALTH RESEARCH AND INNOVATION

In March of 2014, Alberto Cardelle, dean of the college of health sciences, and Steven Godin, professor of health studies, opened the Institute for Public Health Research and Innovation (IPHRI) within the Innovation Center at ESU. The mission of the IPHRI is to create inter-organizational collaboration oration to harness the knowledge and skills of the area's health services professionals to develop solutions to the region's health challenges. The IPHRI seeks to address community health needs by improving existing infrastructure and building capacity of local organizations to identify the region's public health issues and to develop innovative interventions and prevention initiatives. The IPHRI provides opportunities for several graduate students to engage in research and help advance the mission of the Institute.



LYME-AID

Professor Jane Huffman of ESU's biological sciences department and ESU alumna Melissa Shaw are co-founders of LYME-AID, a tick-testing kit for people and pets that represents the commercialization of the first faculty-student research project. The testing is done in the Northeast Wildlife DNA Laboratory. LYME-AID kits are intended to provide individuals with a convenient means of properly removing ticks, and to offer them the option to have any ticks they discover on themselves or on pets tested for the presence of the bacteria that causes Lyme disease. LYME-AID kits are unique because they are associated with accurate molecular laboratory testing that directly identifies the DNA of the pathogen associated with Lyme disease infections.



MARATHON STUDIOS, INC.

Knowledge, Delivered.

Marathon Studios, Inc., located in ESU's Innovation Center, was founded and is managed by Jonathan Weber, ESU alumnus and first-ever winner of the State System's Student Business Plan Competition in 2012. The company manages a network of web properties, apps and services used by millions of people around the world every month. The company specializes in creating modern applications designed to help make the Web a more useful place for their visitors. Marathon Studios also provides a range of development, design, cybersecurity, and consultation services for clients nationwide.





NEW MIND DESIGN

Student Design Agency



New Mind Design is a student-run business entity serving the local and regional communities. Students work with a business or other entity on 2-D and 3-D design projects. A state-of-the-art facility at ESU's Innovation Center houses the student design agency and provides the student team with the latest design hardware and software in a professional business setting. Faculty mentors Joni Oye-Benintende, Darlene Farris-LaBar, and David Mazure provide guidance as students learn through experience by overseeing each project from conception to completion.



NORTHEAST WILDLIFE DNA LABORATORY

The Northeast Wildlife DNA Laboratory is located in ESU's Innovation Center and is an integrated service of the Department of Biological Sciences. The scientists and team in the lab utilize state-of-the-art genotyping equipment which is maintained in a controlled and secure environment. The DNA Laboratory offers complete genotyping services focused on genetic applications for wildlife conservation, management, research, and forensics. The melding of staff at the laboratory and the faculty in the Department of Biological Sciences provides the experience and knowledge base that gives the laboratory the "tools" needed to help clients succeed with their wildlife genetic projects.



SITUATIONAL AWARENESS SYSTEMS (SAS) FD SOFTWARE ENTERPRISES (FDSE)

Founded and operated by Professors Mary DeVito and Robert Marmelstein of ESU's computer science/computer security programs, FD Software Enterprises and Situational Awareness Systems, located in ESU's Innovation Center, specializes in developing advanced information systems for the Defense, Homeland Security, and Medical domains. The company's mission is to create software that delivers the right information, in the right form, at the right time. The resulting solutions provide their users with the situational awareness to make the best possible decisions for any contingency. In time critical, life and death situations, this ultimately translates into saving lives and protecting property while securing company data.



TICKCHEK.COM

Tickcheck.com, a startup company founded by Jonathan Weber, is dedicated to providing laboratory-quality tick testing to people in high-risk areas for Lyme and other tick-borne diseases nationwide. The company offers PCR-based tick testing that is 99.9 percent accurate and can detect the presence of seven diseases beyond simply Lyme. Unlike traditional laboratories' complicated test requisition forms, TickChek.com has a simple, easy to use interface for ordering tick tests. Customers order their tests, mail their tick to ESU's Northeast Wildlife DNA Laboratory within the Innovation Center, and the results are ready within 72 hours of lab receipt - guaranteed.

ESU's Creative Exhibits

DARLENE FARRIS-LABAR

SOLO EXHIBITIONS

"Field Guides to the 3rd Dimension", Art Lab Space, Columbia University, Columbia, Georgia – November, 2014

"At Last Which Thrives," Madelon Powers Gallery Fine and Performing Arts Center Fine and Performing Arts Building, East Stroudsburg University – September, 2014

GROUP EXHIBITIONS

"Picture Perfect", SOHO in the Burg, Stroudsburg, PA – March 2015

"Bridging Divides IECA", University of Boulder, Colorado – June 2015

"3D Print Show London", London's Historic Brewery Building, London, England - June 2015

"3D Print Show New York", Center 548- Dia Art Center's prior building, New York – April 2015

"Earth Speaks", Pocono Arts Council, Stroudsburg, PA – April 2015

"The Uncommon Denominator II", E.O. Bull Center, Westchester University, Westchester, PA – October 2014

DAVID MAZURE

College of Arts and Sciences | Art + Design

SOLO EXHIBITIONS

"New Mythologists: The Three Horsemen of the Apocalypse (and another)", Madelon Powers Gallery, East Stroudsburg University, East Stroudsburg, PA – October 3 - November 3, 2014

"New Mythologists: The Two Horsemen of the Apocalypse" University Gallery, Ophelia Parrish Art Complex, Truman State University, Kirksville, MO - March 3 - April 13, 2015

"Altruism w/-1/2 Spin" (Hallway wall, lenticular print), Sanofi-Pasteur Swiftwater Campus, Swiftwater, PA - March 20, 2015 - present



*clockwise from top:
David Mazure;
Joni Oye-Benintende;
Darlene Farris-LaBar*



GROUP EXHIBITIONS

"M(i)(A)cro: A Contemporary Drawing Exhibition", The Lawrence Center for the Arts, Lawrence, KS - May 16 - July 5, 2014

"Miniprint Kazanlak", a Bulgarian traveling print exhibition, Stara Zagora and Sofia, Bulgaria – July 2 – 14, 2014

JONI OYE-BENINTENDE

College of Arts and Sciences | Art + Design

SOLO EXHIBITIONS

"Recent Work", AFA Art for Artists Gallery, Scranton, PA - August 2014

"Meditations", Sykes Gallery, Millersville University of PA - Jan. 20 - Feb. 26, 2015

"Earth Speaks", Pocono Arts Council gallery, Artspace, Stroudsburg, PA - April, 2015

ESU Faculty Published Books

SANDRA ECKARD

*College of Arts and Sciences
English*

***Yin and Yang in the English Classroom:
Teaching with Popular Culture Texts***

Rowman & Littlefield

English studies today are driven by demanding curriculum, but this need is often met with unenthusiastic students. "Fun" work—like movie days or projects—is often seen as what to do after the real work is finished. But what if instructors could blend the two pieces together more effectively, motivating students with interesting material while still achieving curriculum goals? This text attempts to fuse the pieces in to a cohesive philosophy.



ROB MCKENZIE

*College of Arts and Sciences
Communication Studies*

***Rounding Some Corners—
Observing Life's Oddball Ironies***

Self-published on Amazon Create Space

This book is a collection of newspaper columns Professor McKenzie wrote over a three year period for the Pocono Record. The columns take life's seemingly mundane circumstances to give readers a laugh or provoke them into considering their values.



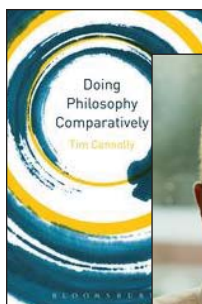
TIMOTHY CONNOLLY

*College of Arts and Sciences
Philosophy and Religious
Studies*

Doing Philosophy Comparatively

Bloomsbury Academic

Critics have argued that comparative philosophy is inherently flawed or even impossible. *Doing Philosophy Comparatively* is the first comprehensive introduction to the foundations, problems, and methods of comparative philosophy. Presenting a basic tool-kit for doing philosophy at the cross-cultural level, this textbook draws on many examples from the past and present of comparative philosophy and engages readers in sustained reflection on how to think comparatively.



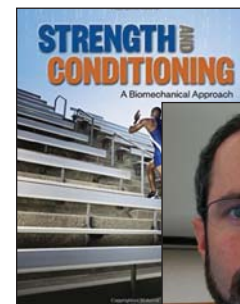
GAVIN MOIR

*College of Health Sciences
Exercise Science*

***Strength and Conditioning:
A Biomechanical Approach***

Jones & Bartlett Learning

Written for both the undergraduate/graduate level student as well as practitioners in the field, this text incorporates all programming aspects of strength and conditioning including training methods to develop muscular strength and power, flexibility, and the development of effective warm-up regimens. Performance analysis techniques in sport are introduced while the constraints-led approach to motor skills acquisition is presented as a framework that can guide the development of practices for the strength and conditioning practitioner. The biomechanical and motor skill acquisition concepts introduced in the text are then applied to fundamental movements including jumping, landing, and sprint running.



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