



MESSAGE FROM THE PRESIDENT MARCIA G. WELSH, PH.D.

In 2018, East Stroudsburg University celebrated its 125th anniversary. From our humble beginnings as a Normal School in 1893 with a faculty of only 15 serving 320 students, we've grown to become an amazing public University that now serves more than 6,400 students from 32 states and 28 countries offering 57 undergraduate and 22 graduate degree programs!

The growth and success of ESU through the years is also evidenced by our faculty who continue to facilitate a challenging curriculum through rich and innovative academic programming that fosters critical thinking and frequently incorporates collaboration with undergraduate students to perform research. The inclusion of research in an undergraduate curriculum is considered one high-impact practice that fosters better student learning and achievement. We are proud to nurture these academic initiatives at ESU.

From ESU's annual Student Research Symposium held in April to our Summer Undergraduate Research Experience (S.U.R.E.), to individual departmental research days/events, students are given the opportunity to shine. With the mentoring of faculty members, our students are making notable contributions within their fields of study, fully preparing them for their professional careers. I can think of no better way for us to educate our students for their future.

Over the last 125 years, Warriors have proven to be resilient and forward-thinking in educational practices. As we look forward, my hope is that we continue to provide our students with research experiences that will set them apart from others. This report is an impressive snapshot of what we've been able to accomplish in the past year thanks, in part, to our faculty and students who have raised the bar with their

hours of gathering, analyzing and synthesizing data, completing literature reviews, and sharing their findings through conference proposals, journal articles, and presentations. I hope these bodies of work will inspire all of you to continue this legacy in new and innovative ways, continuing to map a bright future for ESU and our students still to come.

Thank you.

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Research, Scholarship, and Creative Activity





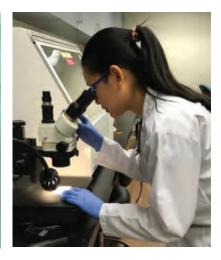


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STUDENT RESEARCHERS

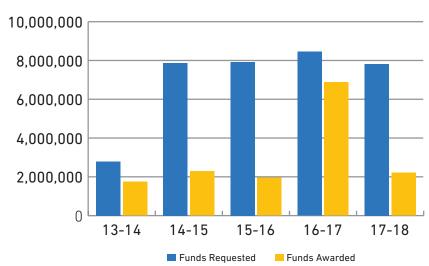
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Annual Research Metrics for Sponsored Projects

The Office of Sponsored Projects and Research, within the Division of Academic Affairs, continues to support the advancement of the research and creative activity enterprise at ESU with a specific focus on the inclusion of undergraduate research in all disciplines.

The University continues to submit a growing number of grant proposals each year, with numbers being consistent over the years, and dollar amounts high. The number of grant submissions has averaged in the range of 57 proposals per year since 2013-2014. The fluctuations in grant awards does differ, with some years seeing big increases due to a large federal or private grant, as was the case in the 2016-2017 fiscal year.

FIVE YEAR OVERVIEW: EXTERNAL GRANTS REQUESTS AND AWARDS

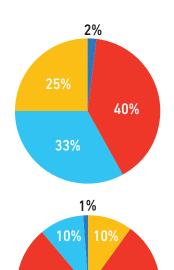


2017-2018 EXTERNAL AWARDS & REQUESTS BY COLLEGE/ DIVISION **Proposals Proposals Proposals Proposals** College/Division **Submitted Awarded** College/Division **Submitted** Awarded **Arts and Sciences** 33 16 College of Health Sciences **College of Business and Management** 0 0 **University Divisions and Affiliates** 14 11 College of Education 55 36 **Business and Management Arts and Sciences Education Health Sciences University Divisions** and Affiliates

University Divisions and Affiliates include: Economic Development & Entrepreneurship, ESU Foundation/Office of University Advancement,

Graduate and Extended Studies, Kemp Library, and Student Affairs

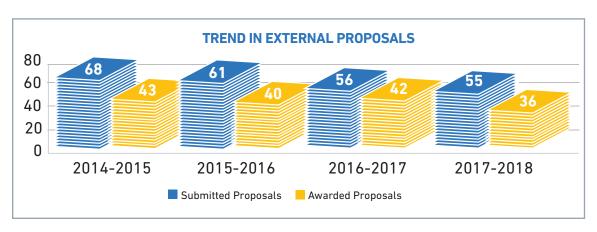
^{* 1} proposal was submitted, supplementary grant was awarded without submission



79%

EXTERNAL GRANT AWARDS	2017-2018	Proposals Awarded
PASSHE	\$39,546	1
Federal	\$889,387	11
State	\$726,361	6
Private	\$559,308	18
SUM	\$2,214,602	36

EXTERNAL GRANT REQUESTS	2017-2018	Proposals Requested
PASSHE	\$39,546	1
Federal	\$6,141,145	16
State	\$820,695	8
Private	\$818,910	30
SUM	\$7,820,296	55



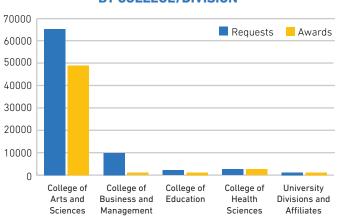
Average Annual # of Proposals Submitted

Faculty Development and Research (FDR) Internal Grants

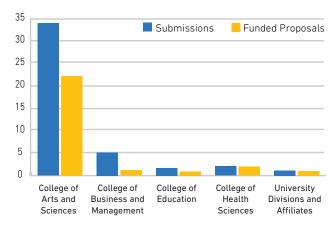
FDR Total Amount \$89,444

FDR Total Amount \$62,601

FDR REQUESTED AND AWARDED FUNDS BY COLLEGE/DIVISION



FDR SUBMISSIONS AND FUNDED PROPOSALS BY COLLEGE/DIVISION



COLLEGE OF

Arts and Sciences



MARGARET BALL



JYH-HANN (JOHN) CHANG



NICOLE CHINNICI



BONNIE GREEN



JEFFREY HOTZ



MARIA KITCHENS-KINTZ (CO-PI)



JEFF RUTH



MATTHEW WALLACE



HOWARD WHIDDEN



PAUL WILSON

External Grants		FDR Grants	
Funds Awarded	\$326,992	Funds Awarded	\$49,851
Funds Requested	\$5,190,749	Funds Requested	\$66,499
Proposals Awarded	16	Proposals Awarded	22
Proposals Submitted	33	Proposals Submitted	34

MARGARET BALL

Theatre

Shakespeare on the Quad

Funding Source: PA Partners in the Arts – Pocono Arts Council

Amount Awarded: \$1,207

A three-week acting and technical training program for high school and college students culminating in a performance of Shakespeare's A Midsummer Night's Dream was held on ESU's campus. Professional faculty and senior students taught classes and staged the production. Classes in voice, movement, acting, and design took place daily. Students were introduced to all aspects of theatre production. The completed show was performed for public audiences.

JOHN CHANG

Psychology

PA Faculty Health and Wellness

Funding Source: PA Faculty Health and Welfare Fund

Amount Awarded: \$1,500

Professor Chang's project followed a previously-funded Healthy Lifestyle Initiative Grant called the Hydration Challenge, awarded in 2015 from the same funding agency. This grant-funded program included an important educational component for faculty on campus to recognize the signs of dehydration and utilized follow-up reminders to encourage cognizance of the importance of staying hydrated.

NICOLE CHINNICI

Northeast Wildlife DNA Laboratory (NEWDL)

Murray State Elk

Funding Source: Murray State University

Amount Awarded: \$1,500

Nicole Chinnici determined the gender of elk through non-invasive sampling. Results of this study contributed to an undergraduate's research project at Murray State University.

New Jersey Bobcat Analysis

Funding Source: New Jersey Division of Fish and Wildlife

Amount Awarded: \$38,579

This project consisted of a three-year population genetic study using non-invasive hair sampling. Results of the study will contribute to understanding the size of the New Jersey population for future wildlife management strategies.

PA Ruffed Grouse Diversity

Funding Source: PA Game Commission

Amount Awarded: \$1,095

In this project the NEWDL determined the genetic diversity of the Pennsylvania grouse population. This is an early stage assay development grant which will lead to a large-scale, state-wide analysis to determine genetic diversity pre- and post- West Nile Virus infection.

Pike County Tick Project

Funding Source: TBD Support Network

Amount Awarded: \$2,500

Nicole Chinnici collected and tested 100 ticks from Milford Borough, Pa. for seven different tick-borne diseases. Ticks were tested using RT-PCR. Total infection rate and co-infection rates were determined. A publication on results is in process.



Adult female American Dog tick questing on a blade of grass during tick collections for Pike County PA study.

Photograph by Nicole Chinnici.

Virginia Elk Genetics

Funding Source: Virginia Game and Inland Fisheries

Amount Awarded: \$4.550

This project consisted of a population genetic analysis on a small localized Elk population using non-invasive sample collections. Results of the study will be used to leverage federal funds to conduct a state-wide population genetics project.

Wisconsin Black Bear Analysis

Funding Source: Wisconsin Department of Wildlife Management

Amount Awarded: \$3,810

This initial grant funding was used to determine methods for Black Bear genetic analysis using hair snares in Wisconsin. Results of this study have contributed to additional funding to determine black bear movements and population estimates over a three-year study.

BONNIE GREEN

Psychology

Gaining Awareness and Readiness for Undergraduate Programs (GEAR UP-3)

Funding Source: United States Department of Education -Pennsylvania's State System of Higher Education

Amount Awarded: \$39.546

Pennsylvania's State System of Higher Education received its fourth GEAR UP (Gaining Awareness and Readiness for Undergraduate Programs) grant from the United States Department of Education. Professor Bonnie Green was again chosen to serve as the external evaluator for this State System program. GEAR-UP 3 is designed to assist underdeveloped school districts with making students' dreams of attending college become a reality. The program ensures that students and their families have access to the resources needed to graduate from high school and succeed at a post-secondary institution.



JEFF RUTH

Modern Languages, Philosophy, and Religion

Salary Assistance for Japanese Language Courses

Funding Source: The Japan Foundation

Amount Awarded: \$27,000

This is the second-year continuation of Professor Ruth's grant to support the initiation of Japanese language courses at ESU. In the last 12 years, Japanese has been a less commonly taught but a more indemand language. The modern languages department believes that conditions are optimal to launch a Japanese language program at ESU.



Stefani Cannon and Leslie Abreu setting up a flight intercept trap for the spotted lanternfly. Photograph by Kelly Murman.

MATTHEW WALLACE

Biological Sciences

Field Studies on the **Spotted Lanternfly**

Funding Source: United States Department of Agriculture Amount Awarded: \$68,240

This project continued important work towards the discovery and development of effective traps and lures for the Spotted Lanternfly (SLF), and bolstered the eradication efforts through research that ensures the eradication strategy is optimized based on a correct understanding of the SLF biology, such as alternative host plant suitability and dispersal capabilities. The Spotted Lanternfly is highly polyphagous and feeds on more than 80 species of plants in at

least 37 families, and it is a



Spotted lanterfly. Photograph by Stefani Cannon.

serious pest of grapes. The SLF were found in Pennsylvania on treeof-heaven (Ailanthus altissima), and is now in six counties in Pennsylvania.

HOWARD WHIDDEN

Biological Sciences

Continued Monitoring and Management of White-nose Syndrome-affected Bats

Funding Source: United States Department of Interior -

National Park Service

Amount Awarded: \$2.475: \$2.485

Professor Whidden monitored bat populations in the Upper Delaware Scenic and Recreational River Corridor over the summer of 2017 in an effort to protect surviving populations and minimize future threats. His goal was to collect data on bat activity and distribution in the corridor following the appearance of White-nose Syndrome (WNS). Professor Whidden and his students analyzed acoustic data collected by National Park Service personnel, 2017 acoustic-driven transects in the Upper Delaware, conducted emergence counts at the Lackawaxen Post Office, assisted the siting and installation of bat boxes near the post office, and surveyed buildings scheduled for demolition to see if they were used by roosting bats. Professor Whidden also monitored bat populations in the Delaware Water Gap National Recreation Area an effort to protect surviving populations and minimize future threats. Professor Whidden and his students sampled driven transects using a bat detector to record bat echolocation calls using a window-mounted AR125 detector. They compared locations of recorded calls with the numbers and locations of calls recorded in the past years. The information gathered helped to identify areas in the park that still support significant numbers of bats.

PAUL WILSON

Biological Sciences

Phase II of the Delaware River Watershed Initiative

Funding Source: William Penn Foundation – The Nature Conservancy

Amount Awarded: \$125,505

This grant is a continued collaboration with The Nature Conservancy and other partners in the Pocono Kittatinny Cluster (PKC) to monitor headwater quality and educate students to do the same. The overall goal of the PKC is to protect the abundant forests, wetlands, intact floodplains, and associated ecosystem services that are critical to protecting water quality and quantity in the Delaware River



Phase II of the Delaware River Watershed Initiative. Pictured are Krista Reeves and Paul Wilson.

Watershed. It was Professor Wilson's responsibility to coordinate contractors, receive, catalog, and forward data to the Academy of Natural Sciences (ANS), request data and analysis from ANS, and provide monitoring data to cluster members. The water quality monitoring plan for the PKC fulfilled its educational objective by including participation of ESU students in classes in Stream Ecology and Limnology (the study of inland waters). ESU students took part in monitoring activities.

Stroud Water Research Center: DRWI Sensor Stations, Sampling, and Data

Funding Source: Stroud Water Research Center

Amount Awarded: \$4.500

The grant included the award of three automated environmental sensor stations and related support in addition to the \$4,500 award. Data was streamed continuously via a cell phone link and can be viewed at the following web site

(http://drwisensors.dreamhosters.com/). These stations were added to Professor Wilson's two existing stations, expanding his ability to investigate water quality and aquatic habitats in north east Pennsylvania. In addition to supporting his research, the stations supported both student research and classroom activities.



JEFFREY HOTZ

English

PENG ZHANG

Physical Education Teacher Education

PA Faculty Health and Wellness

Funding Source: Pennsylvania Faculty Health and Welfare Fund

Amount Awarded: \$1.500

This is a continuation of a previous project on which professors Zhang and Hotz collaborated. This project encouraged walking and physical activity for approximately 15-20 ESU faculty members in spring 2018. Each participant received a gift card from zappos.com to purchase athletic shoes. The program included a 10-minute presentation, eight walks, reading six health handouts, and pre- and post-surveys.

INTERNAL GRANTS

FDR MINI GRANTS

ABDALLA ALDRAS

Biological Sciences

Alpha-Gal Allergy to Red Meat, Induced by Lone Star Tick (Amblyomma americanum)

Amount Awarded: \$1,200

MARGARET BALL

Theatre

Tectonic Theatre Company-Devising "Moment" Workshop for Theatre Students

Amount Awarded: \$1,200

Theatrical Intimacy Education

Amount Awarded: \$1,096

DONGSHENG CHE

Computer Science

Online Training of Deep Learning Specialization

Amount Awarded: \$245

ROBERT COHEN

Physics

"Discover the NGSS Train-the-Trainer" Workshop

Amount Awarded: \$600

ESTHER DAGANZO-CANTENS

Modern Languages, Philosophy, and Religious Studies

2018 Modern Languages Undergraduate Student Conference

Amount Awarded: \$1,124

JOHN ELWOOD

Physics

Single Photon Detector for Single Photon Experiment at ESU

Amount Awarded: \$1.200

DARLENE FARRIS-LABAR

Art + Design

Planet Consciousness: Interactive 3D Printed Flowers and Micro Nervous Systems on Display at the Whitney Museum of Art

Amount Awarded: \$1,200

STEPHANIE FRENCH

Theatre

Theatre of the Oppressed

Amount Awarded: \$1,200

BONNIE GREEN

Psychology

Oppositional Mindset: A New Variable Associated with

Success?

Amount Awarded: \$1,200

JAMES HUNT

Biological Sciences

Initiation of Student-Centered Aquaculture Research

Projects

Amount Awarded: \$1,200

LAURA KIESELBACH

English

National Writing Project Conference

Amount Awarded: \$1,200

IRINA KHUSID

Psychology

National Teaching Institute and Workshop Attendance

at the APS Conference

Amount Awarded: \$1,200

JOSHUA LOOMIS

Biological Sciences

Susceptibility of Staphylyococcus Aureus to Phage Infection When Grown within Mixed Species Biofilms

Amount Awarded: \$1,192

ADAM MCGLYNN

Political Science

Proving Patriotism: The Latino Military Experience

from Recruit to Veteran Amount Awarded: \$388

JONI OYE-BENINTENDE

Art + Design

Clay and Technology High and Low

Amount Awarded: \$1,007

Expanding Techniques for Clay Sculptures

Amount Awarded: \$1,200

EMILY ROLLINSON

Biological Sciences

Plant Community Structure and Biological Invasions Along Small Streams of the Delaware Watershed

experiment in collaborative mapping as a source of community

community and residents of the area, produced large scale maps of

the Stroudsburg/East Stroudsburg region and then exhibited them

engagement. Professor Mazure's project engaged the ESU

as a traveling exhibition sponsored by ESU.

CO-PI: DARLENE FARRIS-LABAR

YOSHINORI TANOKURA

Crossing Over Scenography

Amount Awarded: \$1,200

XUEMAO ZHANG

Mathematics

Attending Causal Inference and Big Data 2018 Summer Institute

Amount Awarded: \$1,200

FDR INTERDISCIPLINARY INCENTIVE GRANTS

LAURENE CLOSSEY

Sociology, Social Work, & Criminal Justice

Mental Health Recovery Model Education in Higher Education to Prepare Future Professionals

CO-PIs: GINA SCALA

Special Education & Rehabilitation and Human Services

GENE WHITE

Physical Education Teacher Certification

Amount Awarded: \$8,000

The Mental Health Recovery Model has been transforming mental health systems of care for the past two decades. It represents a social movement and treatment philosophy that seeks to empower consumers, offer hope of recovery, and decrease social stigma against the mentally ill. The project offered Recovery Model education to future practitioners during their college years. Professor Clossey introduced training modules in Mental Health Recovery to ESU students in social work education and psychology. The modules were integrated into existing classes.

Art + Design

Theatre

Amount Awarded: \$7,974

Professor Tanokura conducted research and curated the works of a renowned scenographer, Pamela Howard OBE, and brought her artworks to campus for an exhibition at the Madelon Powers Gallery at ESU. He worked to establish the presence and raise awareness of scenography as an art and profession to ESU students.

DAVID MAZURE

Art + Design

Stroudsburg Area Map Room Project

CO-PIs: MICHELLE DONLINReference & Instruction Librarian

FAITH WATERS, Association of Pennsylvania State College &

University Retired Faculty (APSCURF)

Amount Awarded: \$7,575

The Stroudsburg Map Room Project was inspired by the Office of Creative Research's St. Louis Map Room Project which was an



Pamela Howard Exhibit in the Fine and Performing Arts Center.

Photograph by ESU University Relations.

EXTERNAL GRANT SUBMISSIONS

NICOLE CHINNICI, Northeast Wildlife DNA Laboratory

- · ARIZONA SPRINGSNAIL, Funding Source: Arizona Game and Fish Division, Amount Requested: \$9,230 pending
- GENETIC ANALYSIS OF OTTERS, Funding Source: Michigan Technological University, Amount Requested: \$3,500 pending
- GENETIC SEQUENCE OF DOG TICKS, Funding Source: Cell Systems 3D, Amount Requested: \$5,000 pending
- GREAT BASIN SPRINGSNAIL, Funding Source: The Great Basin Institute, Amount Requested: \$9,000 pending
- PIKE COUNTY TICK PROJECT PART 3, Funding Source: Pike County Commissioners, Amount Requested: \$40,000 pending
- REU SITE: INTERDISCIPLINARY RESEARCH IN WILDLIFE BIOLOGY, EMERGING INFECTIONS AND CONSERVATION STUDIES Funding Source: National Science Foundation, Amount Requested: \$287,059 pending
- SLIDE PREPS OF TICKS, Funding Source: PA Lyme Resource, Amount Requested: \$288 pending
- SPRINGSNAIL GENETICS, Funding Source: Wildlife Resource Consultants, Amount Requested: \$3,250 pending
- WISCONSIN BOBCAT ANALYSIS, Funding Source: Wisconsin Department of Wildlife Management, Amount Requested: \$1,850 pending

LAURENE CLOSSEY, Sociology, Social Work, & Criminal Justice

UNIVERSITY-BASED RECOVERY MODEL TRAINING, Funding Source: The Marion E. Kenworthy-Sarah H. Swift Foundation Amount Requested: \$30,631 not funded

BONNIE GREEN, Psychology

DRK-12: MINDFUL MATH: IMPROVING STEM WITH PSYCHOLOGICALLY INFORMED INSTRUCTION

Funding Source: National Science Foundation, Amount Requested: \$335,536 not funded

IUSE: SCHOLARSHIP OF TEACHING AND LEARNING IN STEM: A MODEL FOR CHANGE

CO-PI: JOHN CHANG, Psychology

Funding Source: National Science Foundation, Amount Requested: \$2,913,512 not funded

MICHELLE JONES-WILSON, Chemistry

S-STEM: DIRECT PATH TO BACHELOR'S DEGREE COMPLETION

CO-PI: BONNIE GREEN, Psychology

Funding Source: National Science Foundation, Amount Requested: \$999,816 pending

PATTABIRAMAN NEELAKANTAN, Political Science and Economics

THE ROLE OF FOREIGN-BORN RESIDENTS IN PENNSYLVANIA'S ECONOMY, Funding Source: Center for Rural PA, Amount Requested: \$90,429 not funded

JONI OYE-BENINTENDE, Art + Design

FAUNA, FERAL, FLORAL, Funding Source: PA Council on the Arts, Amount Requested: \$2,500 pending

VENTUREWELL FACULTY GRANTS, Funding Source: VentureWell, Amount Requested: \$30,000 not funded

JEFF RUTH, Modern Languages, Philosophy, and Religion

DIGITAL HUMANITIES GRANT: ¡ESPAÑOL ABIERTO!, Funding Source: National Endowment of the Humanities, Amount Requested: \$99,578 pending

 $^{^{1}}$ Pending refers to all external grants that were pending approval as of June 30, 2018, the last day in the 17-18 fiscal year.

COLLEGE OF

Business and Management

	FDR Grants	
\$0	Funds Awarded	\$1,200
\$0	Funds Requested	\$10,195
0	Proposals Awarded	1
0	Proposals Submitted	4
	\$0	\$0 Funds Awarded \$0 Funds Requested 0 Proposals Awarded

INTERNAL GRANTS

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FDR MINI GRANTS

RICHARD OTTO

Digital Media Technologies

NAB NYC: Professional 4k Lighting Workshop and

Tradeshow

Amount Awarded: \$1,200

COLLEGE OF Education



JANINE HYDE-BRODERICK



MARYANNE KASH, CO-PI

External Grants		Internal FDR Grants	
\$400,555	Funds Awarded	\$7,700	
\$428,480	Funds Requested	\$8,900	
2	Proposals Awarded	2	
1	Proposals Submitted	3	
		\$400,555 Funds Awarded \$428,480 Funds Requested 2 Proposals Awarded	

JANINE HYDE-BRODERICK

Upward Bound

CO-PI: MARYANNE KASH

Upward Bound

Funding Source: US Department of Education **Amount Awarded:** \$389,843; \$10,712

Since 1974, Upward Bound has been advancing the ideal of equal opportunity in post-secondary education. ESU believes that students from all segments of the population should have an opportunity to achieve academic excellence at the high school and college levels. The

mission of ESU's Upward Bound program is to promote intellectual curiosity and academic excellence, to acquire the ability to engage, make prudent choices, and develop the technical skills necessary to succeed in their secondary and post-secondary education. To fulfill this mission, the federal grant enabled the Upward Bound faculty and staff to provide academic instruction in subject areas supportive of the high school curriculum, group counseling, cultural programs and career guidance. Students are exposed to people, places, and events that deepened their dreams and broadened their life vision while they learned how to identify, establish, and achieve goals discovered on their journey.

INTERNAL GRANTS

FDR MINI GRANTS

MAUREEN MCLAUGHLIN

Reading

Literacy Research Association 2017 Conference

Amount Awarded: \$1.200

FDR COURSE RELEASE GRANT

BETH SOCKMAN

Professional and Secondary Education

Writing a Grant Proposal for Neuroscience **Connections in Secondary Education**

Funding Source: FDR Course Release Grant

Amount Awarded: \$6,500

Professor Sockman was awarded this grant to write a grant proposal to be submitted to the National Science Foundation (NSF). The proposal is for the NSF Discovery Research PreK-12 Grant solicitation, which aligns with the expertise of those at ESU, provides a strong foundation for implementation and research and encourages meaningful collaboration with area schools.

ENTREPRENEURSHIP ACROSS THE CAMPUS

NURUN BEGUM

Early Childhood Education

The World of Ticks - An Educational **Activity Book for Children**

CO-PI: NICOLE CHINNICI

Northeast Wildlife DNA Laboratory

Amount Awarded: \$2,500

Lyme disease is the fastest growing and most reported vectorborne illness, with Pennsylvania having the most confirmed

cases among all states. Children ages 5-12 are at the

highest risk for exposure to Lyme disease. Because of this, a multidisciplinary student development team created an educational activity book on ticks and Lyme disease for children.



Children at a school in Liberia. Photograph by Stephanie McCall.

ONCE IN A LIFETIME GRANT

STEPHANIE MCCALL

Professional and Secondary Education

Girls' Schools in Liberia

Amount Awarded: \$3.000

Professor McCall traveled to Liberia to work with a non-profit organization which oversees all-girls' schools there. This organization invited her to visit their schools to understand the current landscape of educational opportunity, specifically for girls, in Liberia, and in their schools. They asked for assistance building their capacity to understand and implement quality teaching, learning and curricular interventions for their contextual strengths and limitations. Her trip to Liberia was to better understand the non-profit's needs and how her skills and knowledge as a researcher and scholar could support their efforts to scale their success.

COLLEGE OF Health Sciences



MIHYE JEONG, CO-APPLICANT



CLARE LENHART



DENISE SEIGART



STEVE SHIVE



PENG ZHANG



KRISTINA ZWOLENIK

External Grants		Internal FDR Grants	
\$425,932	Funds Awarded	\$2,350	
\$574,952	Funds Requested	\$2,350	
7	Proposals Awarded	2	
7	Proposals Submitted	2	
		\$425,932 Funds Awarded \$574,952 Funds Requested 7 Proposals Awarded	

CLARE LENHART

Health Studies

Live Healthy PA

CO-PI: KRISTINA ZWOLENIK

Health Studies

Funding Source: Centers for Disease Control and Prevention -

Pennsylvania Department of Health **Amount Awarded:** \$228,313

In this multi-year, ongoing grant, Professor Lenhart and her research team served as external evaluators in a state-wide effort aimed at reducing the impact of chronic disease. This wide-ranging project encompassed the Pennsylvania Healthy Corner Store Initiative, Pennsylvania WalkWorks, assessments of the Diabetes Education Program and Diabetes Self-Management Education projects, and more. Fulfillment of funding requirements involved collaboration with stakeholders across the state, development of individual evaluation plans (IEPs) for each strategy, and quantitative, qualitative and GIS-based analysis to inform policy decision makers about the replication of similar activities across various chronic diseases.

Health Resources and Service Administration Dual Degree Program

Funding Source: Health Resources and Service Administration -

Geisinger Commonwealth School of Medicine

Amount Awarded: \$13,273

Professor Lenhart, in collaboration with Geisinger Commonwealth School of Medicine (formerly The Commonwealth Medical College), administered the final year of a dual degree MD-MPH program aimed at promoting a clinical workforce well versed in population health needs. Medical students interested in either the Graduate Certificate in Public Health or the Master of Public Health degree took specialized courses with ESU faculty. Many are now engaged in innovative research and field-based experiences, applying their knowledge to relevant clinical and community needs.

Comprehensive Asthma Control Through Evidencebased Strategies and Public Healthcare Collaboration

Funding Source: Centers for Disease Control and Prevention – Pennsylvania Department of Health

CO-PI: KRISTINA ZWOLENIK

Health Studies

Amount Awarded: \$11,734; \$62,800

In this multi-year project, Professor Lenhart's research team evaluated the impact of Pennsylvania's statewide asthma control efforts with emphasis on evaluation of the Pennsylvania Asthma Partnership (PAP), expansion of the Community Asthma Prevention Program (CAPP), and implementation of clinical, practice-based quality improvement efforts to enhance asthma care. Additional research was also conducted to highlight areas of disparity in asthma need versus asthma services and funding in order to advocate for underserved regions moving forward.

DENISE SEIGART

Health Sciences

Prescription Drug Monitoring Program's System User Training

CO-PI: WILLIAM BAJOR

Academic Affairs | Graduate and Extended Studies

Funding Source: Pennsylvania Department of Health

Amount Awarded: \$99,512

Dean Seigart, together with Dr. William Bajor, promoted, scheduled, and delivered the Pennsylvania Department of Health, Prescription Drug Monitoring Program's System User Training to community-based controlled substance prescribers and other interested health professionals in Monroe and other counties lying within the Pennsylvania Department of Health Northeast District (Carbon, Lackawanna, Luzerne, Lehigh, Northampton, Pike,

and Wayne). Workshops were held in the Innovation Center and at the Lehigh Valley campus. This program was designed to help address the Opioid epidemic currently plaquing communities throughout the state.

STEVE SHIVE

Health Studies

Susquehanna

Sodium Reduction Plan: Development of a Communication Plan

Funding Source: Centers for Disease Control and Prevention -

Temple University

Amount Awarded: \$8,800

This sodium reduction project provided assistance to the Center for Asian Health in collaboration with and support of the Center for Disease Control REACH program, a national initiative designed to reduce racial and ethnic health disparities. Professor Shive's work sought to increase access to environments with healthy food or beverage options among Asian-Americans in the Philadelphia, Pennsylvania and Cherry Hill, New Jersey metropolitan areas.





Tanya Claudio, Tamara Dennie, Elizabeth Gordon and Stephanie Huff undertaking field work near Kisumu, Kenya.

EXTERNAL GRANT SUBMISSIONS

CLARE LENHART, Health Studies

DRIVING BACK TO HEALTH, Funding Source: AstraZeneca Health Care Foundation,

Amount Requested: \$149,554 not funded

INTERNAL GRANTS

FDR MINI GRANTS

KEVIN CASEBOLT

Physical Education and Teacher Education

Mindful Practices for Students

Amount Awarded: \$1,200

LORI PIERANGELI

Nursing

Purchase a Missouri Community Action Poverty Simulation Kit

Amount Awarded: \$1.150

ONCE IN A LIFETIME GRANT

ELAINE RODRIGUEZ

Health Studies

Kenya Orphans and Vulnerable Children Caregiver Household Research Study

Amount Awarded: \$3,000

Elaine Rodriguez and four of her Health Studies students - Tanya Claudio, Tamara Dennie, Elizabeth Gordon, and Stephanie Huff - traveled to Kisumu, Kenya and its surrounding countryside to work with a non-profit organization that does community development. Elaine and her students conducted a health household research study, analyzed the data and worked with the non-profit to better design health prevention and education programs for the community which it serves. Each student received a stipend of \$750 to help with expenses related to the trip.

University Divisions and Affiliates

Economic Development and Entrepreneurship

ESU Foundation and Office of University Advancement

Graduate and Extended Studies

Kemp Library

Student Affairs





LIANNA DESANTIS



SHARONE JONES



CATHERINE KLINGLER



MARY FRANCES POSTUPACK



RICHARD SANTORO



LAURA SUITS



DOREEN TOBIN

External Grants		FDR Grants	
Funds Awarded	\$1,061,123	Funds Awarded	\$1,500
Funds Requested	\$1,626,115	Funds Requested	\$1,500
Proposals Awarded	11	Proposals Awarded	2
Proposals Submitted	14	Proposals Submitted	2

ESU FOUNDATION

ESU FOUNDATION

Community Athletic Complex Improvement Project

Funding Source: Mount Airy Foundation

Amount Awarded: \$20,000

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

3D Metal Desktop Printer

Funding Source: R. Dale and Frances M. Hughes Foundation

Amount Awarded: \$215,110

The funding enabled ESU's Art + Design Department to purchase a Desktop Metal 3D printer to support the continuing success of the school's G3D Super Lab. The Desktop Metal 3D printer is the first safe, high-speed, and cost-effective 3D printer in the world that produces 3D prints in stainless steel, copper, iron, bronze, titanium, and other

metals. This printer uses the same metal injection molding materials of high-end alloys and is not only capable of creating detailed and complex prints, but can do so in mass quantity with no loss of precision.

Student Scholarships

Funding Source: R. Dale and Frances M. Hughes Foundation

Amount Awarded: \$50,000

The East Stroudsburg University Foundation requested \$50,000 from the R. Dale and Frances M. Hughes Foundation to increase the current R. Dale and Frances M. Hughes Endowed Scholarship from \$226,500.12 (as of June 30, 2017) to \$276,500.12.

Swim & Gym Program

CO-APPLICANT: MIHYE JEONG

Physical Education Teacher Education

Funding Source: Pocono Health Foundation Dr. Alberta Finch

Children's Health Endowment Fund

Amount Awarded: \$1,000

This grant supported East Stroudsburg University's Physical Education Teacher Education Swim and Gym Program. The funds



Baseball-Softball Groundbreaking Ceremony at Creekview Park in Stroud Township, Pa.

supported the acquisition of new equipment that provided both children ages 3-18 with disabilities and the students within the Physical Education Teacher Education program a hands-on educational experience.

Student Scholarships

Funding Source: William T. Morris

Foundation

Amount Awarded: \$5,000

This grant supported 5 scholarships for incoming freshmen attending ESU.



CO-PI: MARIA KITCHENS-KINTZ

Biological Sciences

Funding Source: Sanofi Pasteur Amount Awarded: \$80,000

This grant supported scholarship funds to offer annual scholarships to science majors with a preference on transfer students from community colleges majoring in the Biological Sciences.

SHARONE JONES

Economic Development and Entrepreneurship | Workforce Development

WEDnet PA

Funding Source: Pennsylvania Department of Community and

Economic Development **Amount Awarded:** \$328,266

WEDnetPA training program funds are provided through the Department of Community Economic Development. As a certified partner, ESU is responsive to the needs of Pennsylvania's business community and administers funds to support essential skills and advanced technology training to qualified employers. The training allows companies to stay competitive in a global economy.

CATHERINE KLINGLER

Economic Development and Entrepreneurship | Schisler Museum and McMunn Planetarium

Museum Assessment Program for the Heritage Collection at East Stroudsburg University

Funding Source: Institute of Museum and Library Services

Awarded: Technical Assistance valued at \$6,000

The Museum Assessment Program is a technical assistance program that helps museums attain excellence in operations and planning

EXTERNAL GRANT SUBMISSIONS

ESU Center for Research and Economic Development

PLANNING FOR THE FUTURE: ALIGNING STRATEGIES FOR COMMUTERS, MILLENNIALS, ENTREPRENEURS, AUTOMATION AND QUALITY OF LIFE IN MONROE COUNTY, PENNSYLVANIA

Funding Source: USDA, Amount Requested: \$89,955 not funded

ESU Foundation

REU FOR STEM MAJORS (INTERDISCIPLINARY RESEARCH IN WILDLIFE BIOLOGY, EMERGING INFECTIONS, AND CONSERVATION STUDIES)

CO-PI: NICOLE CHINNICI, Northeast Wildlife DNA Laboratory

Funding Source: PPL Foundation, Amount Requested: \$53,880 not funded

KEITH MODZELEWSKI, Economic Development and Entrepreneurship | Business Accelerator I-CORPS SITE PROGRAM

Funding Source: National Science Foundation, Amount Requested: \$498,911 pending

 $\textbf{LAURA SUITS,} \ \textit{Student Affairs} \ | \ \textit{Wellness Education and Prevention}$

GENERATION RX UNIVERSITY IMPLEMENTATION GRANTS

Funding Source: The Higher Education Center for Alcohol and Drug Misuse Prevention and Recovery

Requested Amount: \$1,000 pending

INTERNAL GRANTS

FDR MINI GRANTS

MEGAN SMITH

Kemp Library

Creative Commons Course to Foster Copyright and Open Education Resources (OER) Understanding and Use

Amount Awarded: \$300

LINDA VAN METER

Student Affairs | Counseling and Psychological Services

Youth Mental Health First Aid: Preparing Innovative Educators to Respond to Mental Health Challenges in the Classroom

Amount Awarded: \$1,200

through a cooperative process of self-study and peer review. MAP is part of the Continuum of Excellence and is administered by the American Alliance of Museums.

MARY FRANCES POSTUPACK

Economic Development and Entrepreneurship

Hazard Mitigation Grant Program

Funding Source: Pennsylvania Emergency Management Agency

Amount Awarded: \$360,000

This award supported the funding of a generator and electrical infrastructure to support the ESU Megashelter at Koehler Fieldhouse. The Pennsylvania Emergency Management Agency designated ESU as a Megashelter site during Hurricane Sandy in 2012. The generator will provide critical back-up electrical power to support building systems for Koehler Fieldhouse during a disaster when the Fieldhouse serves as a PEMA Megashelter for the region.

LAURA SUITS

Student Affairs | Wellness Education and Prevention

It's On Us PA

Funding Source: Pennsylvania Department of Education —

Office of Postsecondary and Higher Education

Amount Awarded: \$26,993

ESU is committed to improving its campus culture by increasing awareness about sexual violence and reducing any barriers that negatively impact survivors and the reporting process. This award

supported the beginning of the It's on Us campaign at ESU. Goals of the campaign included: improving awareness, prevention, reporting, and response systems regarding sexual violence at ESU, reducing barriers that prevent survivors of sexual violence from reporting, and demonstrating significant, proactive, and sustainable leadership to change campus culture by pledging to improve ESU's climate.

Seeds of Hope: Warrior Pathway

Funding Source: Transforming Youth Recovery

Amount Awarded: \$1,000

This award helped fund the creation of an on-campus recovery program. Funding went toward training students to become Warrior Pathways Student Mentors. In-depth training helped students become Mental Health and First Aid certified. Training equipped student mentors with the ability to help students in recovery develop a sense of connection and consistency.

DOREEN TOBIN

Student Affairs

Family Planning Service

Funding Source: Maternal and Family Health Services

Amount Awarded: \$23,754

University Health Services provided ESU students with 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.



National Science Foundation Clear Path S-STEM Grant



The Clear Path National Science Foundation S-STEM grant was awarded in September 2016. With more than two years of lessons learned and working through implementation, the grant program is now running smoothly with expert project implementation on behalf of the team: Michelle Jones-Wilson, Chemistry, Primary Investigator, Olivia Carducci, Mathematics, Co-PI and Bonnie Green, Psychology, Co-PI with support from John Darsinos, Adjunct Professor, and Kathi Morris, Clear Path Coordinator.

Since its inception, *Clear Path* has awarded 72 scholarships, 59 to students who have already transferred to ESU in STEM disciplines. The first cohort of students entered ESU in the fall of 2017 and will graduate in spring of 2019!

With two years in, some of the program's earliest scholars were asked about their experiences.

What **experiences** will you take from this academic school year that will **impact your future** in education, research, or professional career?

What do you consider your greatest achievement?

What is your personal and/ or professional **motto?**

Clear Path Scholars:



WILL BONASERA

Computer Security

Senior

My greatest achievement has been working together in a team and competing in a computer security competition and winning.

My personal motto is: Hard work pays off!



LYNN DEPHILLIPO

Mathematics

Senio

The academic experience that has impacted my future is my actuary preparation for exam P, which will help me tremendously in reaching my professional and career goals.

My personal motto is: Always try your best at everything in life because you never know what the outcome will be.



WALTER ESPINOZA PAZ

Biochemistry

Senior

The academic experience that has impacted my life is being able to prioritize time properly when faced with multiple responsibilities such as school work, tutoring, research and socializing.

My greatest achievement is being the first member of my family to attend college, earn an Associate's Degree, Bachelor's Degree and continue to seek graduate education.

My personal motto is: It is better to know something and not need it, than to need it and not know it.



CHRISTA REEVES

Environmental Science

Senior

I am most proud of the culmination of my years of hard work, and persistence in my field, which led me to be a contributor to the Montclair State Passaic Institute 5-year study of microbial inputs into the Musconetcong River in New Jersey and

to be a part-time researcher with the Stroud Water Research Center in Pennsylvania.



KRISTEN ROTH

Environmental Science

Senior

The academic experience that has impacted my future is getting an A on my Organic Chemistry exam!

My personal motto is: Just keep pushing!

STUDENT RESEARCHERS

SUMMER UNDERGRADUATE RESEARCH EXPERIENCE (S.U.R.E)

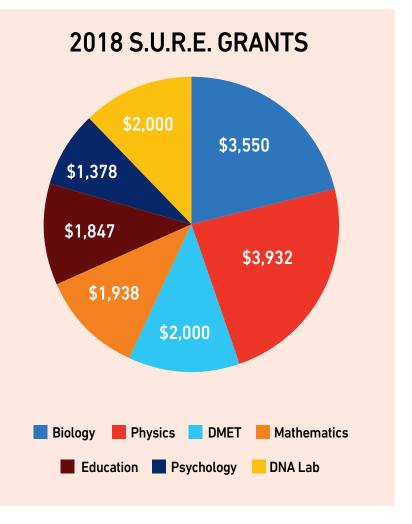
In spring 2018, the Office of the Provost in conjunction with the Office of Sponsored Projects and Research continued with the Summer Undergraduate Research Experience grant program (S.U.R.E.). The program is designed to provide funding to support undergraduate students to complete research with a faculty member as their mentor over the summer months. The S.U.R.E. program was modeled after similar funding initiatives implemented at other State System universities and serves as a critical step in creating a more robust culture for undergraduate research at ESU.

This year, the S.U.R.E. committee received 14 applications, totaling \$24,764.78. Of these 14, nine applications (64%) were funded in the amount of \$16,645. The nine awarded faculty/student partnerships represented seven academic departments at ESU: psychology, biological sciences, physics, digital media technologies, mathematics, education, and the Northeast Wildlife DNA Laboratory.

The core criteria for awarding the grants was: clarity of the proposal, clear research goals and learning outcomes for the summer, and the degree to which the proposed aligned with ESU's Strategic Plan Students First:

Empowering Innovation through Collaboration 2017-2020.

The successful applications clearly revealed the high-impact experience for the student researchers which included hands-on work in the field and the laboratory, immersive research in various areas, and opportunities to publish research findings.





S.U.R.E Award Recipients



< KARL BOHNENBERGER

Physics, Junior

> FACULTY MENTOR: JERRY ROSS Physics

Amount Awarded: \$1,978



ESU Jet Engine

A "Turbojet" style jet turbine was made out of miscellaneous automotive and custom fabricated parts. This was a great opportunity for the student to gain hands-on experience in engineering research and explore his intellectual curiosity.



Cole Davis using a device called a densitometer. Cole measured the canopy cover at the field site (i.e., how much of the location is covered by shade from trees).

Photograph by Emily Rollinson.



< COLE DAVIS

Environmental Studies,

Junior

> FACULTY MENTOR: EMILY ROLLINSON Biological Sciences

Amount Awarded: \$2,000



Effects of Invasive Plants on PA Streams

This project consisted of conducting floristic surveys of local riparian areas throughout the summer, to document the diversity of the plant community and the invasive species present in these habitats. The student conducted a field experiment to determine the resource quality of leaf litter from native and invasive riparian plants for stream macroinvertebrates. The student was provided with excellent hands-on research experience coinciding with future goals.



< JOSE FELIX
Digital Media Technologies,
Freshman

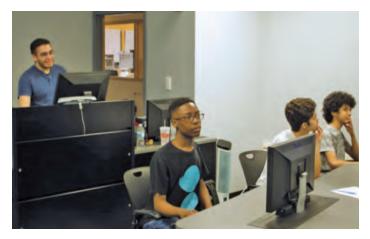
> FACULTY MENTOR: JASON ENGERMAN Digital Media Technologies

Amount Awarded: \$2,000



Digital Warriors and the Age of Experience

This project focused on developing digital competencies at the intersection of STEM and authentic Esports activities, which helped to impart a unique set of technical skills for the Experience Age that will benefit students. The student researcher delved into scientific methods of empirical and peer reviewed research through design, collection, analysis and reporting. This was a great opportunity for the student to build his skills in web design and graphics.



Jose Felix presented his web design and graphics to ESU students.

Photograph by Jason Engerman.

ALYSSA FITZGERALD

Psychology, Junior

> FACULTY MENTOR: JOHN CHANG

Psychology

Amount Awarded: \$1,378



Compassion of Others' Lives Research

The goal for the summer research program was to create a short form version of the Compassion for Others Lives scale, by condensing the scale from 26 to 8 items and to publish two papers based on research from the COOL Scale. Professor Chang and his student worked together by conducting literature reviews, gathering and analyzing data, and utilizing new statistical methods.



> DOREEN LWANGA

Elementary Education

< FACULTY MENTOR: BETH SOCKMAN

Professional and Secondary Education

Amount Awarded: \$1,847

Potential for Student Growth and Development

Doreen used the funding to examine teachers' identity change and how they experience this change when creating a student-centered classroom when every student has a computer.

MINH HANH NGUYEN

Biological Sciences

> FACULTY MENTOR: NICOLE CHINNICI

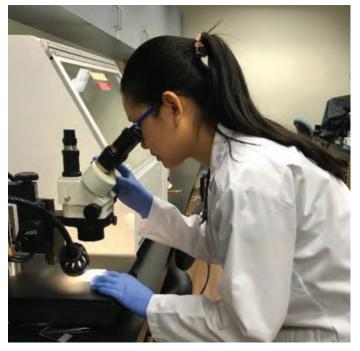
Northeast Wildlife DNA Laboratory

Amount Awarded: \$2,000



Prevalence of Tick Borne Pathogens in Ticks Collected from Elk in PA

In the United States, tick borne diseases have the greatest number of cases per year than any other infectious disease. This project allowed Minh Hanh Nguyen and Nicole Chinnici to determine the pathogen prevalence of ticks collected from elk and pathogen prevalence within Pennsylvania elk.



Using a Dichotomous key, Minh Hanh identified ticks to determine between species of Dermacentor. Photograph by Nicole Chinnici.

DREW SOLONOSKI

Physics

> FACULTY MENTOR: JOHN ELWOOD

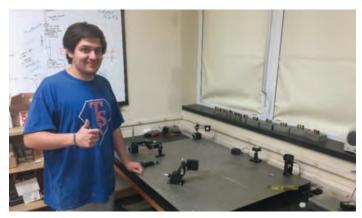
Physics

Amount Awarded: \$1,954



Single Photon Experiment at ESU

Drew and Professor Elwood designed, constructed, and saw "first-light" in a single photon set-up in their lab. The student conducted background research, inventory, purchasing, experimental design, construction, and troubleshooting. It was an excellent experience for the student to gain practical knowledge of different devices used in a laboratory setup.



Drew is posing next to a Mach-Zehnder interferometer that he constructed during his summer research experience. Photograph by John Elwood.



< ARIEL TUCCI

Psychology

> FACULTY MENTOR: BONNIE GREEN Psychology

Amount Awarded: \$2,000



(the implementation of this award took place in summer 2018, although the award was first given in 2017)

Measuring Implicit Attitudes Void of Contamination from Social Desirability

This project focused on the problem of socially desirable responses. The lab in which Ariel worked was previously able to show that the most famous and currently only really acceptable way of measuring implicit attitudes, the Implicit Association Test, is prone to participants being able to fake responses on it only following one completion of the measure. Following the analysis of the data

Professor Green and her student collected, they made further tweaks to their current measure to attempt to minimize the variability and increase the participant's ability to follow directions.

REANNON ZANGAKIS

Biological Sciences

> FACULTY MENTOR: HOWARD WHIDDEN

Biological Sciences

Amount Awarded: \$1,550

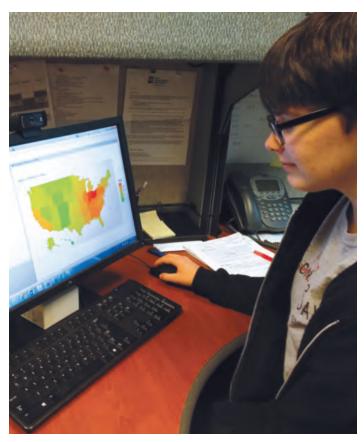


Reproductive Success in a Maternity Colony of Little Brown Bats

Reannon and Professor Whidden were able to make a detailed study of a maternity colony located in a church. They worked to assess reproduction in the colony because understanding reproductive success in this species is critical for helping to ensure its long-term survival and recovery.



Reannon, holding an acoustic detector used for monitoring bat echolocation calls, gathered data on the reproduction of a maternity colony. Photograph by Howard Whidden.



Using a programming language of data science, Allyson analyzed a big data set.



< ALLYSON ZELIENKA Mathematics

FACULTY MENTOR: XUEMAO ZHANG

Mathematics

Amount Awarded: \$1,938

Big Data Analysis

Allyson analyzed a big air data set under supervision of Professor Zhang. The data analysis included data manipulations, data summarization and inference by numerical methods, and data visualizations using a leading programming language of data science. This was an excellent opportunity for the student to gain experience with programs often used in data analysis.

GRADUATE STUDENT RESEARCH ASSISTANTS

In fall 2017, the Graduate College together with the Office of Sponsored Projects and Research reacted to an opportunity - identifying the possibility of pairing vacant graduate student-funded positions with the opportunity to provide graduate research positions to those that wanted to work closely with faculty members. Thus, the Graduate Student Research Assistant position was created. Its first students were funded in spring 2018 and due to its success, the program has continued.

The Research Assistant is responsible for assisting the mentoring faculty member in a variety of non-administrative tasks which may include preparing resources, equipment, materials for the research and documenting results. Research projects are ideally related to the student's area of study. The research project is intended to provide the opportunity to learn proper research procedures and techniques. The supervising faculty is responsible for providing ongoing feedback and a formal assessment at the conclusion of the assistantship. The supervising faculty determines the research goals and supervises the student in achieving those goals.



EMILY BOYLE, Spring 2018 *Professional and Secondary Education*

FACULTY APPLICANT: BETH SOCKMAN
Funding Source: East Stroudsburg University Graduate College

Amount Awarded: \$1,500

Researching the Neuroscience Connections in Secondary Biology Education

Emily researched concepts of neuroscience to be integrated into the discipline of biology in secondary schools. In addition, she identified the overlap in the Next Generation Science Standards, Pennsylvania Biology Standards, and California Biology Standards to determine which science standards would align.

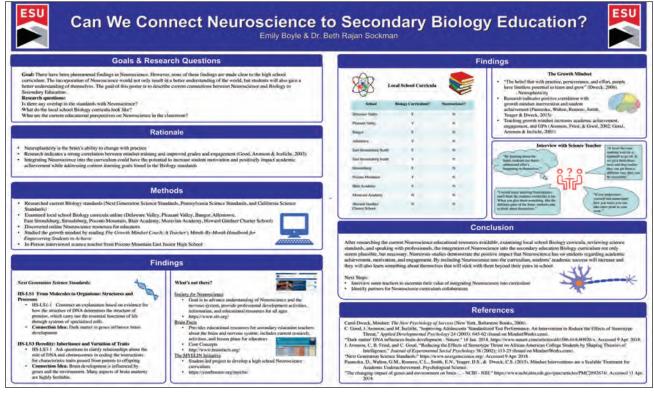


NICOLE LANGAN, Spring 2018 Professional and Secondary Education

FACULTY APPLICANT: STEPHANIE MCCALL
Funding Source: East Stroudsburg University Graduate College
Amount Awarded: \$1,500

Scholars and Virgins: Discourses of Gender and Sexuality through Curricular Knowledge in Religious All-Girls School Book Chapter

Nicole assisted Professor McCall in conducting a literature review as well as in prewriting a chapter to be included in a book for publication. The chapter was invited as part of an edited book about the intersection of religion and literacies in K-12 education.



Poster by Emily Boyle

HONORS RESEARCH SYMPOSIUM

In December 2017, Honors students presented semester-long research projects from different disciplines. Most of the students were first-semester freshmen who were engaged in a project-based learning component of their First-Year Experience course. Recent data shows that participation in projects that take a semester or longer to complete is a key factor in student engagement both in college and beyond. The Honors Research Symposium was organized by Dr. Timothy Connolly, Co-Department Chair of Modern Languages, Philosophy, and Religion. There were 23 student presenters from 11 different majors.

Biology

Rebecca Birnbaum Kasey Bresadola Erika Cruver Franco Falcon Chelsea Gamble Mustafa Kalaycioglu Kassandra Kase Lindsay Sherwood Lindsey Topper

Communication

Jaymie D'Heron

Communication Sciences

& Disorders

Emma Skilton

English

Li Yan

Exercise Science

Marlene Bassett Brittany Carratura

Hospitality, Recreation & Tourism Management

Eric Carey

Marine Science

Leah Bergman Breanna Cheatham

Physics

Zachary Bordigon Jessica Geiger

Psychology

Zoe Mass

Public Health

Xuanxuan Zhu

Theatre

Katherine French

Undeclared

Kayla Mecca



2018 STUDENT RESEARCH AND CREATIVE ACTIVITY SYMPOSIUM

The 2018 Student Research and Creative Activity Symposium was held on Wednesday, April 18 in the Hoeffner Science and Technology Center. The keynote speaker was Carol Muller, Ph.D., an ethnomusicologist and professor of music at the University of Pennsylvania. Dr. Muller's talk, titled "Coming to Know our Neighbors and Ourselves through Academically based Community Engagement" focused on civic engagement, community partnering and student research.

This year 165 undergraduate and graduate students presented at the symposium. The

students represent 26 departments across campus and were sponsored by 62 faculty members. The symposium event included the Sigma Xi research forum competition and a special presentation highlighting student teachers and their experiences in the field. Oral and poster presentations included topics on Hunger on College Campuses, Lyme Disease, Turbojet Engines and Police Diversity Leadership.

The Research and Creative Activity Symposium helps to enhance student experiences by creating a space where students actively learn by applying research and testing methods in real world contexts. The university is proud to provide a platform where undergraduate and graduate students can showcase their research and findings.

Art + Design

Laila Andujar
Evelyn Baron
Anthony Caprario
Amy Corradino
Loretta DiDonato Thomas

Aisling Kerr Rachael Swartz Kristina Turtiello

Athletic Training

Nathan Sheneberger

Biological Sciences

Jonathan Adamski Elizabeth Barcellona Kristine Bentkowski Jessica Burns Kacie Chern Justin Clarke Samantha DeVivo Will Jones Brina Marcellus

Samantha Pelletier Kristina Roy

Joseph Schell Clay Steber Danielle Swingle

Gabryella Wilder

Biotechnology

Zachary Buss Abigail Onufer Deveney Young

Business Management

Darrell Costenbader Dylan Evert Samantha Lamont Sebastian Wielgolaski

Chemistry

Samantha Miller Conrad Richman

Communication

Amanda Beal Christopher Benson Adam Creighton Jonathan Mostafa Breonna Smith Irvin Zuzic

Computer Science

Duaa Alrasheed Alexander Chaffers Tim Kelly William Luttmann Kurt O'Leary Joseph Ryan Pu Tian

Criminal Justice

Sierra Keegan Martin Ksepka Carly Moran Saige Osterhout Ciera Romero-Wright Stefanie Sandt

Digital Media Technologies

Stefanie Stricker

Early Childhood & Elementary Education

Melissa V Burns Ashley Gungor Makenzie Hamilla Kelly Howiszak Nicole Karch Alyssa Kelly Stan Kuczawa Danielle Laub Lindsey Leahy





Katherine Liedberg
Kaitlyn Mack
Stephanie Manhart
Kaitlyn Meany
Rebecca Owens
Pat Radice
Brianna Ragonese
Rebecca Samson
Dakota Sarbaugh
Kimberly Skorski
Taylor Snyder
Maria Stuebing
Brianna Sullivan
Victoria Villani
Julian Von Barbier

English

Ariel Mickey Melissa Schneider Sydney Thorsen Miranda Tripus

Exercise Science

Alexy Bantel
Jenna Rose Bilancia
Katherine Cygan
Chris Esposito
Marc Gaudet
Jon Hummer
Kelly Lydon
Jessica Miller
John O'Grady
Jarred Rose

Ryan Samuels

Christian Silva Aden Tully Gus Turonis Dana Yanvary PJ Zwack

Health Studies

Elizabeth Hawley Misozi Houston Jennifer Medina Xuanxuan Zhu

History

Elaine Letki

Marine Science

Leah Bergman

Mathematics

Michael Burns

Modern Languages

Danielle Cloward Taina Moore Thomas Stocker Melissa Vicenty

Physical Education

Chris Gallagher Daniel Malvey Shane McGrath

Physics

Timothy Beery
Karl Bohnenberger
Austin Cavanaugh
Christian
Josephs-Spaulding

James McMahon Jamie Reese Ben Schamloffel

Political Science

Elijah Brown
Michael Chung
Joseph Givens
Edward Ingenito
Shelby Jimcosky
Steven Montgomery
Sarah Pomales
Sabrina Regan
George Searfoss
Justin Watts

Professional & Secondary Education

Elizabeth Armstrong Zane Bettinger Michael Blair **Emily Boyle Emily Brady** Jessica Bruch Carmen Cespedes Danielle Cloward Victoria Collins Michelle Cook Adam Eisenberg Mackenzie Feldman Sonia Figueroa-Pagan Angela Fish Michael Fleming Samantha Girod

Devin Hefferman
Stash Heinrich
Trevor Hunt
Kaitlynn Keiper
Kathryn Kolar
Amy Kucheruck-Keller
Thomas Leeds
Migdalia Lira
Alicia Lowry
Jessica McKeown
Jennifer Meck
Lily Moresco

on

Travis Ressler
Tanayia Robinson
Christine Romano

Levi Murphy

Mariel Novak

Madison Pope

Kathy Post

Michelle Shoeneberger Kathleen Siekonic

Caitlin Simpson

Allison White Christopher Wolfington

Samantha Zeruth

Psychology

Dominic Brown Amanda Capp Lisa Cerenov Alyssa Fitzgerald Christopher Galanti Peyton Robicheau Anthony Savercool Ariel Tucci

Public Health

Irakli Kakaurdize

Social Work

Tamar Cato Trent George Jack Morris

Sociology

Angela Marzuoli Nicole Plavin Kennedy Sheeley

Speech Pathology

Carly Gregas
Sophia Messner
Rachel Neff
Megan Reinert
Kelsey Saylor
Emma Skilton
Samantha Ward
Sarah Yinger

Sport Management

Justin Besz Eric Bohem Megan Carroll Faith Robinson

Theatre

Tyrell Clark
Katherin French
Samuel Kashefska
Madison Petro
Natasha Smith
Joshua Weidenbaum
Alison Wieder









eve grants taken them?

ENTREPRENEURSHIP AND INNOVATION

ESU innovators, creators and entrepreneurs continue to influence the learning environment at ESU. Driven by the possibility of what could be, ESU students, faculty and staff seek innovative solutions that inspire cross-disciplinary collaboration, risk taking and entrepreneurship. Together, they are breaking down boundaries, reaching new heights and charting the course for new academic pathways and competitive global opportunities.

PRESIDENT'S DISTINGUISHED ENTREPRENEUR SPEAKER SERIES



Restance Service Servi

The President's Distinguished Entrepreneur Speaker Series brings entrepreneurs to campus to discuss the challenges they've faced as well as life experiences and educational opportunities that have guided them on their journey. The series premiered in April 2017 and continued with speakers R. Sam Niedbala '82, Ph.D., and Steve Somers.

Dr. Sam Niedbala is an ESU alumnus and CEO of CryoConcepts, LP, one of the fastest growing technology companies in the field of cyro-based products for

esthetics and medical use. Dr. Niedbala began his entrepreneurial endeavors in 1979 by launching OraSure Technologies, Inc. which developed the first rapid HIV test in the United States that was approved for use with blood and saliva, and OraQuick, an overthe-counter version of the same test.

Steve Somers is the owner/president of Vigon International. Vigon emerged as one of the flavor and fragrance industry's fastest-growing companies, expanding from a nine-person \$5 million company in 1998, to the 87-person, \$100 million entity it is today. Somers attributed the company's growth in large part to the unique partnerships that Vigon established with its customers, community, and the world's premier flavor and fragrance manufacturers.

BUSINESS PLAN COMPETITIONS

Pennsylvania's State System of Higher Education Student Business Plan Competition: Amanda Layden, a senior at ESU, won Second Place and the \$5,000 award for Organtick, a direct-to-consumer, all-natural tick repellent containing sunscreen protection.

ESU computer science majors Zach Waldman and Nick Neely won Third Place in the competition and \$2,500 for Falchion Systems, LLC., a next-generation cyber security platform that protects users from phishing attacks. ESU also won First Place in the Student Choice Award - Video Category with ESU graduate student Marc Gaudet, founder of Verified Elite Training Systems, winning the Student Choice Award and \$500 for the most viewed video on YouTube with 1,239 views.

Lehigh Valley Collegiate Business Pitch Summit: Waldman and Neely also won First Place and \$2,000 in the Lehigh Valley Collegiate Business Pitch Competition competing against finalists from Lehigh University, Lafayette College, Muhlenberg College, Lehigh Carbon Community College and Northampton Community College.



TecBridge Business Plan Competition: Joseph Sinclair, owner of Solid Dynamics, a company participating in the ESU Business Accelerator, won First Place, and \$100,000 in in-kind services and cash, in the non-collegiate division of the TecBridge Business Plan Competition. Solid Dynamics is a rapid prototyping service provider that utilizes the latest techniques in manufacturing to design and produces quality products through the use of 3D Printing. Solid Dynamics was one of five businesses to compete in the non-collegiate division.

NATIONAL SCIENCE FOUNDATION (NSF) SMALL BUSINESS INNOVATION RESEARCH (SBIR) PHASE-0 GRANT

The continued success and company growth of Organtick, an all-natural tick repellent containing sunscreen protection, and Falchion Systems, LLC., a next generation cyber security platform, resulted in both companies securing \$25,000 SBIR grants from the NSF I-Corps Program. The grants supported business model development and customer discovery.

WARRIOR LAUNCHPAD

The Warrior LaunchPad, a student incubator, took off at East Stroudsburg University with eight student businesses. The program is sponsored by the ESU Business Accelerator and located in the ESU Innovation Center. The Warrior LaunchPad helps prepare student entrepreneurs to grow their companies and collaborate with other passionate innovators across the university and community. The program provides resources and support to all students who are actively pursuing the launch and growth of a business.

ENTREPRENEURSHIP ACROSS THE CAMPUS

The Entrepreneurship Across the Campus grant program supports faculty and staff initiatives that infuse entrepreneurial topics and activities in the classroom. The program encourages entrepreneurial approaches in instructional delivery or curriculum and/or using



innovative techniques to inspire critical thinking in and outside of the classroom. Since the 2016-2017 academic year, two proposals were funded. Using Cutting Edge Technology in STEM at ESU supported the acquisition and integration of cutting-edge technology – a drone and virtual glasses – for use by several of ESU's departments: Physics, Digital Media Technologies and Geography. The World of Ticks - An Educational Activity Book for Children promoted entrepreneurship among students, engaging them in project development, collaboration with outside organizations, and networking between college disciplines in the development of a Tick Activity Booklet.



BIZZY AWARDS – Greater Pocono Chamber of Commerce

Blaise Delfino '17, the CEO and founder of Fader Plugs, LLC, a company he created while attending ESU as a speech pathology major, received the Innovator of the Year Award honoring an Outstanding Entrepreneur participating in the ESU Business Accelerator Program. The award was presented by ESU President Marcia G. Welsh, Ph.D. at the BIZZY Awards Dinner on September 28, 2017 at Acquatopia. Fader Plugs developed the world's first patent-pending adjustable earplug that allows users to control how much sound enters the ear.

POCONO MOUNTAINS KEYSTONE INNOVATION ZONE

In July 2017, the Pennsylvania Department of Community and Economic Development (DCED) approved new boundaries for the Pocono Mountain Keystone Innovation Zone (PMKIZ) to include 3,466

acres in Monroe County and 220 acres in Wayne County. The Pennsylvania Department of Community and Economic Development established the Keystone Innovation Zone Program to create innovative



technologies and new entrepreneurs – utilizing the Commonwealth's world-class colleges and universities. The KIZs are geographically-designated zones designed to foster innovation and create

entrepreneurial opportunities by aligning the combined resources of educational institutions with public and private partnerships. The Pocono Mountains Keystone Innovation Zone was approved in December 2004.

ESU BUSINESS ACCELERATOR WELCOMES NEW COMPANIES

The Business Accelerator achieved 86% occupancy and welcomed four new early-stage companies: Falchion Systems, LLC; Learnics, LLC; Accura Techtoniq, LLC (since left); and Solid Dynamics, LLC (merged) – bringing the total number of companies to 15: 13 early-stage companies, one anchor company, and one university initiative. An additional 16,000 sq. ft. of Business Accelerator space was completed in July 2018 and includes offices, 1,300 sq. ft. of coworking space, two conference rooms and two Bloomberg Terminals.

ENTREPRENEURIAL WORKSHOP SERIES

The Entrepreneurial Workshop series featured seven speakers: Jonathon Weber, James R. McDaniel Esq., Cheryl Milson, Joe Hackett, Liz Sigety, Michael Tepedino, and Lyz Klein. Topics included highperformance skills needed for startup success, how to pitch, tasks for starting businesses, social media marketing, and startup salaries. The series is sponsored by the ESU Entrepreneurial Leadership Center. The Center accelerates the practice of student entrepreneurship by providing emerging student entrepreneurs with access to events, workshops, mentoring, and competitions that enable them to learn, test, and refine their entrepreneurial skills.

BLOOMBERG FINANCE LAB GRAND OPENING

ESU celebrated the Grand Opening of the Bloomberg Finance Lab on April 21, 2018. The Lab, located in Gessner Hall room 117, includes 10 terminals. Two terminals are also located in the Innovation Center for business and industry use. The Lab is equipped with licensed terminals that allow students, faculty, staff and the greater community access to global analytics, real-time data, public and private market driven financial information and research. The Bloomberg Lab was made possible by a grant from the Appalachian Regional Commission and matching funds contributed by ESU's Center for Research and Economic Development. The Office of Career and Workforce Development collaborated with key faculty and staff to create the new innovative learning space.



NEW MIND DESIGN

New Mind Design (NMD), a student-run design agency, services ESU organizations and local, regional, and national businesses. NMD's client outreach efforts have resulted in a pipeline of customers including the Eastburg Community Alliance, Monroe County Planning Commission, and ESU's Northeast Wildlife DNA Laboratory. NDM

continues to employ cutting-edge technology to meet their clients' needs and incorporates 3-D design into their portfolio through state-of-the-art 3D printers including 3-D head scanning, and product design. The NMD team presented at the fall 2018 Future Business Leaders of America (FBLA) workshop held at ESU.



G3DESIGN LAB/STRATASYS SUPER LAB

During FY 17-18, the G3 Design Lab Stratasys Superlab received funding that supported equipment acquisitions including a CNC router and through the generosity of the R. Dale and Frances Hughes Foundation, a metal 3D printer. Faculty and students continue to work with the community from local to international to design, 3D print, laser cut, CNC and also provide lab tours and 3D printing workshops. Some of the services involved creating 3D prints for Wellington University of Victoria in New Zealand's Avatar props and research, a



Whitney Museum, vessels orbs and plants. Photograph by Darlene Farris-LaBar.

Determination Water Jet Cleaning Product, 3D printed art that was represented at the Whitney Museum of Art, a top secret automotive product design, a one-of-a-kind calibration device for a chemotherapy machine, a 3D full-color print of a pineapple for Stratasys, an East Stroudsburg School District Gifted Program student collaboration, Brodhead Watershed Association dinner centerpieces, a digital foundry collaboration with Alfred State University, high-end multimaterial trophies for the Pocono Arts Council, new faculty gifts for ESU Human Resources Department, a CNC topographic map for Evergreen Nature Preserve, Girl/Boy Scouts laser items and tours, a 3D design and metal printed presidential award, and so much more.



NORTHEAST WILDLIFE DNA LAB: CUTTER Lyme Disease Tick Test

On July 20, 2017, ESU and EPA Enterprises, Inc. announced the launch of the Cutter™ Lyme Disease Tick Test – the first nationally-recognized brand-name product developed at ESU. This new, affordable and convenient test kit provides individuals who find a tick on themselves, their children, or pets with fast, 99.9% accurate DNA test results determining if the submitted tick is a carrier of Lyme disease. All tick testing is done by ESU students and staff in the ESU Northeast Wildlife DNA Lab located in the Innovation Center. The Cutter™ Lyme Disease Tick Test began as Lyme-Aid, a tick testing kit for people and pets, developed in the Northeast Wildlife DNA Lab in 2012.

CREATIVE EXHIBITS

DARLENE FARRIS-LABAR

Art + Design

Radiation: The Borderless Anthropocene

University of Leicester Environmental Communication, Leicester, England, June 29 – July 2 2017

Professor Farris-LaBar designed 3D printed barn swallows in full color to showcase the radiation effects of the birds in Chernobyl in collaboration with sculptor Yvonne Love and scientist Timothy Mousseu. This work was presented to hundreds of Environmental Communicators from around the world.



Swallow. Photograph by Darlene Farris-LaBar.

The Surrounding Planet for Imagens da Natureze, for International Conference of Art and Nature

Sao Paulo, Brazil, September 2017

Farris-LaBar combined art, science and futuristic 3D technology in the form of 3D printing and immersive reality to engage a diverse audience on the critical issue of ecosystem sustenance and corresponding effects on the natural environment. She presented a new perspective of how to capture naturally-engineered earthly forms by using full-color 3D printing and digital technology. Additionally, she offered an immersive experience through the use of 3D virtual and augmented holographs that accompanied a digital database of 3D plant and flower specimens.



3-D printed flowers displayed at an art show in Brazil. Photograph by Darlene Farris-LaBar.

The Surrounding Planet: Rematerialized

British Museum, London, June 2018

Farris-LaBar presented her various work at the British Museum regarding how she re-materialized the actual live plants through the use of 3D digital modeling, 3D scanning, 3D printing, and uses of augmented and virtual reality technology.

3D Printed Seeds and their Embryos for the 12 Shouts for the 10 Forgotten Heavens by Sibyl Kempson

The Whitney Museum of Art, New York, April 2018

This new body of work presented at the Whitney Museum involved a collaboration in a performance surrounding the theme of the Spring Solstice written and directed by renowned playwrite

Sibyl Kempson. This work showcased connections of plant seeds to other living species through revealing the seed embryo in clear resin seed replicas. This newer series of works presented not only the actual flowers but the roots as well. The roots will poetically be created from 3D data of human nervous systems taken from CT scans.



Seed Embryos.
Photograph by Darlene Farris-LaBar.



Whitney Museum, vessels orbs and plants.

Photograph by Darlene Farris-LaBar.

Planet Consciousness: Interactive 3D Printed Flowers and Micro Nervous Systems for the 12 Shouts for the 10 Forgotten Heavens by Sibyl Kempson

The Whitney Museum of Art, New York, June 2018

This new body of work presented at the Whitney Museum involved a collaboration in a performance surrounding the theme of the Summer Solstice written and directed by renowned playwright Sibyl Kempson. It showcased connections of plants to the world at the micro level and how it connects to culture as a whole. This newer series of works presented not only the actual flowers but the roots as well. The roots will poetically be created from 3D data of human nervous systems taken from CT scans.

ELIZABETH GIBBONS

Theatre

Dance Pedagogy in China

Beijing, China, June 2018

Professor Gibbons was invited by Beijing Sport University to present a weeklong series of workshops for their competitive dance/cheer majors. Topics included the physics of turns and balance, intermediate/advanced ballet technique, and motif writing. She was also invited by Beijing Dance Academy, China's premier university for classical Chinese dance, to present the spectrum and participate in a roundtable discussion of contemporary dance pedagogy.



Students from the competitive dance team at Beijing Sport University. They are creating dances with the Units of Action in Motif Writing.

Photograph by Elizabeth Gibbons.



Design for SITE by David Mazure

DAVID MAZURE

Art + Design

SITE Branding Campaign and SITE Hallway Installation

ESU, August 2017

SITE (Scholarship, Innovation, Teaching, and Entrepreneurship) branding (including the cloudscape hallway installation) connects to ESU and Professor Mazure's scholarship. SITE is a major component of ESU's strategic plan; therefore, making SITE visible on- and off-campus is very important. Professor Mazure teaches

design and is a practicing designer.

1st Gen Initiative Button & Clear Path Logo

ESU, August 2017

Working with the Office of the Provost, Professor Mazure designed the 1st Gen initiative buttons/logo and re-designed the Clear Path logo (and designed t-shirts) for the Clear Path scholarship.





Clear Path logo design by David Mazure





AFA Gallery exhibit. Photo and design by David Mazure.

Figurative Group Show at the AFA Gallery

AFA Gallery, Scranton, Pa., September 2017

Professor Mazure was invited to exhibit three of his drawings and prints in the annual AFA (Artists for Art) Gallery in Scranton, Pa.

New Mythologists: With Great Power

AFA Gallery, Scranton, Pa., August 2017

This was a solo exhibition at the Artists for Art gallery located in Scranton, Pa.



Solo Exhibition at AFA.
Photograph by David Mazure

The Horror A4 Comic Book Lettering

February 2018

As part of David Mazure's professional practice, he provided lettering and sound effects for the independently published comic book, The Horror A4.



Cover of the Horror A4 Comic Book. Lettering by David Mazure.

Stroudsburg Area Map Room Project

Stroudsburg, Pa., April 2018

The Stroudsburg Area Map Room Project, inspired by the Office for Creative Research's (https://ocr.nyc/) St. Louis Map Room Project, is an experiment in mapping as a source of community engagement. Thirty diverse groups from the East Stroudsburg/Stroudsburg area



Map created by diverse groups. Photograph by David Mazure.

were invited to participate in this project. This process provided a picture into how different groups interpret their hometown and how their description of the area might be a reflection of their individual and collective interactions within the spaces.

JONI OYE-BENINTENDE

Art + Design

Earth Speaks: Fourth National Juried Exhibition

Pocono Arts Council, April 2018

This national juried art exhibition focused on issues and concerns about climate change and its effects on the Earth.

YOSHINORI TANOKURA

Theatre

Scenic Design for "Moon Over Buffalo" at People's Light Theatre Company

Malvern, Pa., July - August 2017

Professor Tanokura teaches scenic and costume design at ESU. In the summer of 2017, he designed the set for Ken Ludwick's comedy called "Moon over Buffalo." This madcap comedy centers on two fading stage actors who may have one last shot at stardom if they can just keep their act, and relationship, together. The importance of working with an established theatre company like People's Light & Theatre Co. is the ability to develop internship opportunities for his students.



Yoshinori Tanokura's design for "Moon over Buffalo".

Photograph by Yoshi Tanokura.

PUBLISHED BOOKS BY MEMBERS OF THE ACADEMIC COMMUNITY

This section includes books that were published from 2014-2018 that were not previously recognized.

ALBERTO ALEGRE

College of Education | Early Childhood & Elementary Education

Cómo desarrollar la inteligencia emocional de los niños: Estrategias para padres.

(Developing children's emotional intelligence: Strategies for parents)

Published by Editorial Pirámide (Madrid, Spain), 2018

Spanish:

Muchos padres y madres deseamos educar a nuestros hijos de forma que estos desarrollen su inteligencia emocional, pero con frecuencia tenemos dudas de cómo hacerlo. Oímos hablar del tema en los medios de comunicación y en conversaciones informales, pero ¿tenemos las ideas claras? Este libro pretende clarificar esas dudas y proveernos de un arsenal de estrategias altamente efectivas no solo para el desarrollo de la inteligencia emocional de nuestros hijos, sino también para su educación y el gozo de una convivencia armoniosa con ellos.

English:

Parents want to help their children develop their emotional intelligence, but often they do not know how to do it. They hear about emotional intelligence in the media and in informal conversations, but do they really have a clear understanding as to how to help their children? This book aims to clarify these doubts and provide parents with an arsenal of highly effective strategies that will not only develop their children's emotional intelligence, but will also promote a harmonious coexistence between parent and child.

Los malos jefes: como progresar a pesar de ellos utilizando la inteligencia emocional

Bad Bosses: How to Advance Despite Them by Using Your Emotional Intelligence

Published by Editorial Pirámide (Madrid, Spain), 2016

Spanish:

Muchos trabajamos o hemos trabajado en algún momento con un jefe que no nos gusta y al que consideramos un mal jefe. En el libro Los malos jefes, Cómo progresar a pesar de ellos utilizando la inteligencia emocional se hace una clasificación de cinco tipos de malos jefes: El ausente, el omnipresente, el protector, el frívolo, y el perverso. Cada tipo posee características específicas, y los autores, a lo largo de su amplia experiencia como directivos, consultores e investigadores, han comprobado que se repiten en muchas empresas. Esos jefes causan estragos en las organizaciones en las que tienen responsabilidades de liderazgo y pueden hundir a cualquiera que trabaje con ellos. Un mal jefe, sea del tipo que sea, daña la autoestima del empleado, su capacidad de aportar a la empresa, sus posibilidades de promoción, su creatividad y, en definitiva, su carrera profesional. Sin embargo, un mal jefe no es un destino. Por ello en esta obra se ofrecen al lector ideas de cómo utilizar las habilidades de la inteligencia emocional para progresar con ellos,

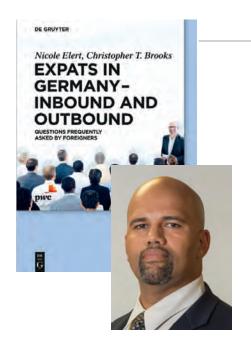
Enalish:

Many of us have worked at some time with a boss that we did not like and that we considered a bad boss. In the book Bad Bosses: How to Advance Despite Them by Using Your Emotional





Intelligence, bad bosses are classified into five types: the absent boss, the omnipresent boss, the protector, the frivolous boss, and the evil boss. Each type has specific characteristics, and the authors, throughout their extensive experience as managers, consultants and researchers, have proven that they can be found in many companies. Those bosses wreak havoc on organizations in which they have leadership responsibilities and can sink anyone who works with them. A bad boss, whatever the type, damages the employee's self-esteem, the ability to contribute to the company, the opportunities for promotion, creativity and, ultimately, the employee's professional career. However, a bad boss is not a destination. Therefore, in this work the reader is offered ideas on how to use the skills of emotional intelligence to progress with bad bosses and succeed.



CHRISTOPHER BROOKS

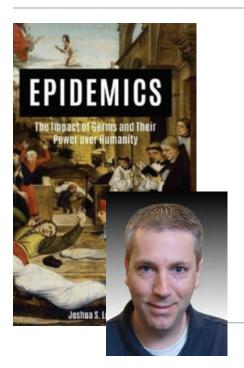
College of Arts and Sciences | History

Expats in Germany - Inbound and Outbound: Questions frequently asked by foreigners

Published by De Gruyter, 2017

The increasing internationalization of business leads to a cornucopia of differing cross-border exchanges in one's daily work. Participants and other beneficiaries of this internationalization include not only multi-national companies but also SMEs (small and mid-sized enterprises), for which the increased global market access offers substantial opportunities.

In order to be certain that sending employees to or from Germany on work assignments can take place as smoothly and efficiently as possible, relevant questions asked by companies and workers need to be taken into consideration. This text does just that with a focus on answering common expat-relevant questions posed by professionals. It is a reference work for those foreigners subject to and applying German law.



JOSHUA LOOMIS

College of Arts and Sciences | Biological Sciences

Epidemics: The Impact of Germs and Their Power over Humanity

Published by Praeger, 2018

This book comprehensively reviews the 10 most influential epidemics in history, going beyond morbid accounts of symptoms and statistics to tell the often forgotten stories of what made these epidemics so calamitous.

Unlike other books on epidemics, which either focus on the science behind how microbes cause disease or tell first-person accounts of one particular disease, *Epidemics: The Impact of Germs and Their Power over Humanity* takes a holistic approach to explaining how these diseases have shaped who we are as a society. Each of the worst epidemic diseases is discussed from the perspective of how it has been a causative agent of change with respect to our history, religious traditions, social interactions, and technology. In looking at world history through the lens of epidemic diseases, readers will come to appreciate how much we owe to the oldest and smallest parasites.

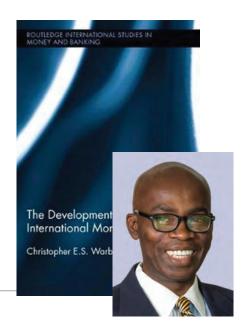
CHRISTOPHER E.S. WARBURTON

College of Arts and Sciences | Political Science and Economics

The Development of International Monetary Policy

Published by Routledge, 2017

The Development of International Monetary Policy traces the development of international monetary policy from mercantilism to quantitative easing. It analyzes some of the pressing issues in international monetary relations involving currency valuation, inflation, exchange rates, and regional monetary policy. It presents international monetary law as a basis for understanding the concept of monetary sovereignty and the limits of state autonomy in an interdependent world of legal arrangements. As a scholarly rendition of international monetary policy, the book provides didactic and practical insights into the study of economics and international monetary policy in order to enrich the educational experience of ESU students while providing researchers an opportunity to delve deeper into the evolution and contemporary arguments of international monetary policy.



CRAIG WILSON

College of Education | Early Childhood and Elementary Education

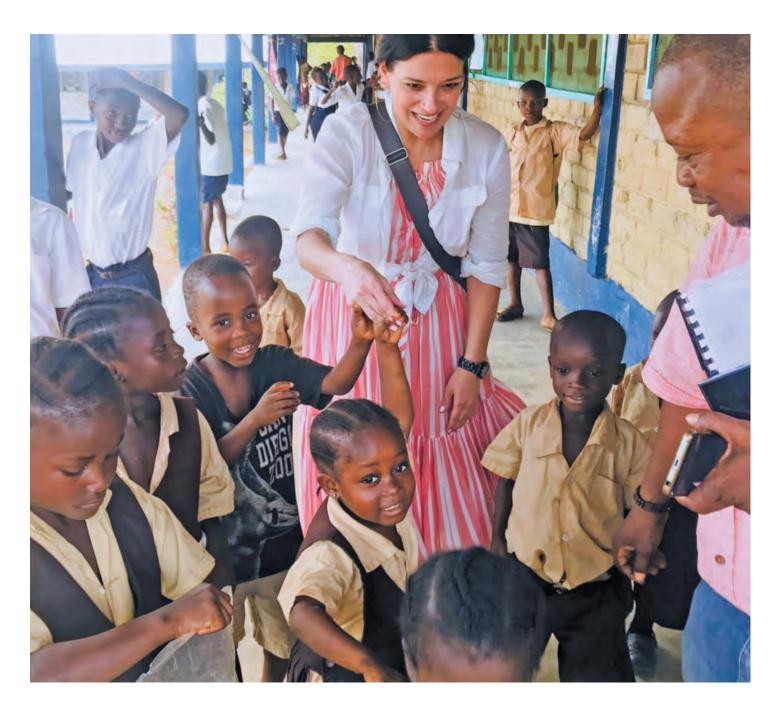
Passing the State Science Proficiency Tests: Essential Content for Elementary and Middle Level Teachers

Published by University Press of America, 2014

Passing the State Science Proficiency Tests presents essential content for elementary and middle level school teachers who want to improve their science content background in order to enhance their classroom instruction and/or pass the state science proficiency tests. This book addresses different aspects of the physical, life, and earth sciences and is organized based on the 168 topics that are assessed on the Middle Level Science Test. Each chapter was written by a science content expert and includes review questions with an accompanying answer key.



NOTES



Girls' Schools in Liberia

ONCE IN A LIFETIME GRANT, STEPHANIE MCCALL

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