

BENJAMIN A. LEVY, PhD

ASSOCIATE PROFESSOR OF MATHEMATICS
Bowdoin College &
Fitchburg State University

QUANTITATIVE RESEARCH SCIENTIST
National Oceanic and Atmospheric Administration

PHONE: (860) 459-4293
EMAIL: blevy1@fitchburgstate.edu
benjamin.levy@noaa.gov

WEBSITE: www.benjaminlevymath.com

PROFESSIONAL EXPERIENCE

2023-present	VISITING ASSOCIATE PROFESSOR Bowdoin College, Brunswick, ME
2021-present	QUANTITATIVE RESEARCH SCIENTIST National Oceanic and Atmospheric Administration (NOAA) Northeast Fisheries Science Center, Woods Hole, MA
2020-present 2016-2020	ASSOCIATE PROFESSOR OF MATHEMATICS (on sabbatical AY 23/24) ASSISTANT PROFESSOR OF MATHEMATICS Fitchburg State University, Fitchburg, MA
2014-2016	GRADUATE RESEARCH ASSOCIATE National Institute for Mathematical and Biological Synthesis (NIMBioS) University of Tennessee, Knoxville, TN
2010-2014	GRADUATE TEACHING ASSOCIATE Department of Mathematics University of Tennessee, Knoxville, TN
2008-2010	MATH & SCIENCE FACULTY Departments of Mathematics and Science Rumsey Hall Junior Boarding School, Washington Depot, CT

EDUCATION

2016	Ph.D in Mathematics, University of Tennessee Thesis: "Modeling Feral Hogs in Great Smoky Mountains National Park" Concentration: Mathematical Ecology Supporting Areas: Numerical Analysis and Differential Equations Advisors: Dr. Suzanne Lenhart and Dr. Charles Collins
2013	M.S. in Mathematics, University of Tennessee
2008	B.A. in Mathematics, Franklin and Marshall College Minor: Philosophy

RESEARCH INTERESTS

Applied Mathematics Mathematical Biology Statistical Modeling	Infectious Disease Modeling Population Modeling Distribution Modeling	Parameter Estimation Fisheries Modeling Undergraduate Research
---	---	--

PUBLICATIONS

IN PROGRESS

Levy, B., Legault, C., Brooks, E., and Miller, T. *Modeling Spatial Preferences and Stock Trends of Atlantic Fish Under the Pressures of Climate Change*. In Progress.

Saucedo, O., Prosper, O., Levy, B., Tang, T., Laubmeier, A., and Asik, L. *Impact of Data Structure, Availability and Noise Distribution on Practical and Structural Identifiability of an SEIR Model*. In Progress.

JOURNAL ARTICLES

Welsh, D., Ludlam, P., Downs, E., Gordon, E., Clark, E., Levy, B., Huang, J., and O'Connor, A. *Stream fish community structure across an urban gradient in a northeastern US watershed*. *Environmental Biology of Fishes*. p. 1-17, (2023)

Edholm, C., Levy, B., Spence, L., Agosto, F., Chirove, F., Chukwu, W., Goldsman, D., Kgosimore, M., and Maposa, M. *A vaccination model for COVID-19 in Gauteng, South Africa*. *Infectious Disease Modelling*. 7.3: 333-345, (2022).

Levy, B., Windoloski, K., and Ludlam, J. *Matrix and Agent-Based Modeling of Threats to a Diamond-backed Terrapin Population*. *Mathematical Biosciences*. p.108672, (2021)

Burton, D., Lenhart, S., Levy, B., Edholm, C., Washington, M., Greening, B., White, J., Lungu, E., Chimbola, O., Kgosimore, M., Chirove, F., and Machingauta, H. *A Mathematical Model of Contact Tracing During the 2014-2016 West African Ebola Outbreak*. *Mathematics*. 9.6: 608-629, (2021)

Levy, B., Lenhart, S., Collins, C., and Stiver, W. *Evidence for Multiple Transmission Routes for Pseudorabies in Wild Hogs*. *Springer Series: Mathematics of Planet Earth, Infectious Diseases and our Planet*. 37-56 (2021)

Levy, B., Correia, H., Ronoh, M., Chimbola, O., Kgosimore, M., Chirove, F., Abebe, A., Machingauta, H., Lenhart, S., and White, J. *Modeling the Effect of HIV/AIDS Stigma on HIV Infection Dynamics in Kenya*. *Bulletin of Mathematical Biology*. 83.5: 1-25, (2021)

Edholm, C., Levy, B., Le Fevre, S., Lenhart S., Marijani, T., Yakubu, A., and Nyabadza, F. *A Risk Structured Mathematical Model of Buruli Ulcer Disease in Ghana*. *Mathematics of Planet Earth*, Springer, Cham: 109-128, (2019).

Levy, B., and A. Odoi. *Exploratory Investigation of Region Level Risk Factors of Ebola Virus Disease in West Africa*. *PeerJ* 6: e5888, (2018).

Levy, B., Edholm, C., Lenhart, S., Gaoue, O., Kgosimore, M., Lungu, E., Nyabadza, F. and Marijani, T. 2017. *Modeling the Role of Public Health Education in Ebola Virus Disease Outbreaks in Sudan*. *Infectious Disease Modelling* 2.3: 323-340, (2017).

Levy, B., Collins, C., Lenhart, S. and Stiver, W. *Evaluating Wild Hog Preferences to Guide Control Strategies in the Great Smoky Mountains National Park*. *Natural Resource Modeling* 30.3: e12132, (2017).

Hujoel, M., Dantzler, A., Parkman, V., Wild, A., Levy, B., Lenhart, S. and Wilkes, R. *Canine Distemper Outbreak Modeled in an Animal Shelter*. *Letters in Biomathematics* 3.1: 13-28, (2016).

Levy, B., Collins, C., Lenhart, S., Madden, M., Corn, J., Salinas, R. and Stiver, W. *A Metapopulation Model for Feral Hogs in Great Smoky Mountains National Park*. *Natural Resource Modeling* 29.1: 71-97, (2016).

JOURNALS REFEREED

- | Mathematics
- | Journal of Theoretical Biology
- | PLOS One
- | SIAM Undergraduate Research Online (SIURO)
- | Problems, Resources, and Issues in Mathematics Undergraduate Studies (PRIMUS)
- | Frontiers in Ecology and Evolution

GRANTS

- 2022 | XSEDE COMPUTING STARTUP REQUEST
Requested 50,000 core-hours and 500 GB of storage for computational work • Awarded
- 2020 | NSF U.S.-AFRICA COLLABORATIVE RESEARCH NETWORK
Senior personnel on the grant • Requested \$250,000 over 3 years • Awarded
- 2020 | FITCHBURG STATE UNIVERSITY SPECIAL PROJECTS GRANT
Requested research-related course release • Awarded
- 2019 | Requested research-related course release • Awarded
- 2017 | Requested \$1760 for student support • Awarded
- 2019 | FITCHBURG STATE UNIVERSITY TRAVEL GRANT
Awarded \$500 towards travel to Malawi in November 2019
- 2017 | Awarded \$300 towards travel to Tanzania in November 2017
- 2019 | AMERICAN MATHEMATICAL SOCIETY AND SIMON'S FOUNDATION EARLY CAREER TRAVEL GRANT
Requested \$4000 for research travel • Denied
- 2017 | Requested \$4000 for research travel • Denied
- 2019 | MARION AND JASPER WHITING FOUNDATION TRAVEL GRANT
Requested \$2350 for research travel • Denied
- 2017 | Requested \$1650 for research travel • Denied
- 2018 | PIF GRANT TO DEVELOP A QUANTITATIVE REASONING COURSE (MATH 1100) AND ITS CO-REQ
Awarded \$3167 from March-August 2018
- 2016-2017 | PROJECT NEXT FELLOWSHIP
Mathematical Association of America
- 2014-2016 | NATIONAL INSTITUTE FOR MATHEMATICAL & BIOLOGICAL SYNTHESIS
GRADUATE RESEARCH ASSISTANTSHIP
NIMBioS at the University of Tennessee

PRESS

- 2020 | Featured in Lowell Sun newspaper article titled "Social separation called our best defense at present"
- 2020 | Fitchburg State Library's Faculty Spotlight for the Month of February
- 2020 | Research trip to Malawi was featured in Worcester Telegram & Gazette newspaper article "Fitchburg State student attends forum in Africa"

TEACHING EXPERIENCE

- 2019 | Mathematical Modeling (Fitchburg State)
- 2018-2022 | Methods of Applied Mathematics (Fitchburg State)
- 2017 & 2021 | Operations Research (Fitchburg State)
- 2018-2020 | Linear Algebra (Fitchburg State)
- 2014-2022 | Calculus I (Tennessee & Fitchburg State)
- 2019 & 2021 | Seminar in Mathematics (Fitchburg State)
- 2014-2022 | Precalculus (Tennessee & Fitchburg State)
- 2016 | ACT Preparation (Tennessee)
- 2011-2012 | Mathematical Reasoning (Tennessee)
- 2010-2011 | Algebra I & II (Rumsey Hall)
- 2008-2010 | 8th Physical Science (Rumsey Hall)
- 2008-2010 | 6th Grade Earth Science (Rumsey Hall)

UNDERGRADUATE MENTORING EXPERIENCE

- 2022 | Davis, C.
A Zoonotic Compartmental Model for Visceral Leishmaniasis Disease
Faculty mentor for senior honors project.
- 2022 | Mathews, K.
A Mathematical View of the Supply and Demand of Product Industries During Covid-19
Faculty mentor for senior honors project.
- 2019 | Foster, M.
Modeling the Role of Stigma on HIV/AIDS Dynamics in Kenya
Matt and I traveled to the Masamu Advanced Study Institute in Blantyre, Malawi.
- 2019 | Melus, E. & Titus, O.
Modeling Contaminants in the Nashua River Watershed
Distribution modeling project started during summer and continued into school year.
Work was presented to community and will be included in future publication.
- 2018 | Windoloski, K.
Matrix and Agent Based Modeling of Diamondback Terrapins
Project funded by internal grant and results were published in *Mathematical Biosciences*.
- 2017 | Windoloski, K. & Cochran, A.
Comparing Optimal College Student Budgets
Project started in Operations Research class, completed following semester & presented at undergraduate conference.
- 2017 | Taylor, C. & Ryan, S.
An Optimization Problem to Determine the Flattest 5k at Fitchburg State University
Project started in Operations Research class, completed over the summer & presented at undergraduate conference.
- 2015 | Hujoel, M., Dantzler, A., Parkman, V., & Wild, A.
Canine Distemper Outbreak Modeled in an Animal Shelter
NIMBioS Summer Research Experience for Undergraduates. Resulted in publication.

INVITED PRESENTATIONS

- 2024 (upcoming) | *A Simulation Study to Analyze the Impact of Climate Change on Fishery-Independent Surveys,*
JOINT MATHEMATICS MEETINGS AMS SPECIAL SESSION ON DYNAMICS AND MANAGEMENT IN DISEASE OR ECOLOGICAL MODELS,
San Francisco, CA
- 2023 | *How might climate change affect indices of abundance? A simulation study starting point.,*
MASAMU ADVANCED STUDY COLLOQUIUM,
Held Virtually
- 2022 | *Modeling Spatial Preferences and Stock Trends of Atlantic Fish Under the Pressures of Climate Change,*
THE CHRISTIE LECTURE AT THE MAA NORTHEASTERN SECTION FALL MEETING,
Keene, NH
- 2022 | *A Vaccination Model for COVID-19 in South Africa,*
SIAM CONFERENCE ON THE LIFE SCIENCES SESSION ON ADVANCES IN EPIDEMIOLOGY,
Pittsburgh, PA
- 2022 | *Using Data to Address the Health Challenges of the Future,*
FITCHBURG STATE FACULTY SCHOLARSHIP COLLABORATIVE RESEARCH PRESENTATION,
Fitchburg, MA
- 2022 | *A Vaccination Model for COVID-19 in South Africa,*
JOINT MATHEMATICS MEETINGS SPECIAL SESSION ON DYNAMICS OF INFECTIOUS DISEASES: ECOLOGICAL MODELS ACROSS MULTIPLE SCALES, Held Remotely
- 2021 | *Modeling the Effect of HIV/AIDS Stigma on HIV Infection Dynamics in Kenya,*
SAMSA-MASAMU VIRTUAL COLLOQUIA SERIES, Held Remotely
- 2021 | *Modeling the Effect of HIV/AIDS Stigma on HIV Infection Dynamics in Kenya,*
JOINT MATHEMATICS MEETINGS SPECIAL SESSION ON ADVANCES IN MODELING THE ECOLOGY OF INFECTIOUS DISEASES, Held Remotely
- 2020 | *An Introduction to Disease Modeling with an Application to the HIV/AIDS in Kenya,*
ITHACA COLLEGE MATHEMATICS SEMINAR, Ithaca, NY and Remotely
- 2020 | *An Introduction to Disease Modeling with an Application to the Ebola Virus Disease,*
CONNECTICUT COLLEGE SENIOR MATHEMATICS SEMINAR, New London, CT
- 2018 | *A Discrete Data-Driven Pseudorabies Model for Feral Hogs,*
SIAM CONFERENCE ON MATHEMATICS OF PLANET EARTH SESSION ON ONE HEALTH: CONNECTING HUMANS, ANIMALS, AND THE ENVIRONMENT, Philadelphia, PA
- 2018 | *Using Mathematics to Locate Wild Boar in Great Smoky Mountains National Park,*
PI MU EPSILON INDUCTION CEREMONY, Fitchburg, MA
- 2018 | *Modeling Behavior Change to Limit an Ebola Outbreak in Sudan,*
JOINT MATHEMATICS MEETINGS AMS SPECIAL SESSION ON MATHEMATICS IN NATURAL RESOURCE MODELING, San Diego, CA
- 2017 | *Modeling Feral Hogs in Great Smoky Mountains National Park to Evaluate Control Efforts and Analyze the Population's Niche,*
FRANKLIN AND MARSHALL COLLEGE PI MU EPSILON INDUCTION CEREMONY, Lancaster, PA
- 2016 | *A Canine Distemper Outbreak Modeled in an Animal Shelter,*
SIAM CONFERENCE ON MATHEMATICS OF PLANET EARTH SPECIAL SESSION ON DATA DRIVEN INFECTIOUS DISEASE MODELS AND APPLICATIONS, Philadelphia, PA

INVITED PRESENTATIONS CONTINUED...

- 2016 | *Modeling Feral Hogs in Great Smoky Mountains National Park to Evaluate Control Efforts and Analyze the Population's Niche,*
JOINT MATHEMATICS MEETINGS AMS SPECIAL SESSION ON MATHEMATICS IN NATURAL RESOURCE MODELING, Seattle, WA
- 2016 | *Modeling Feral Hogs in Great Smoky Mountains National Park to Assess the Importance of a Control Program,*
SOCIETY FOR MATHEMATICAL BIOLOGY ANNUAL CONFERENCE SESSION ON DISCRETE POPULATION MODELS WITH MANAGEMENT FEATURES, Atlanta, GA
- 2014 | *Modeling as a Means of Informing Management Strategies,*
MATHEMATICS SEMINAR AT MARYVILLE COLLEGE, Maryville, TN
- 2014 | *Modeling Feral Hogs in Great Smoky Mountains National Park,*
SIAM ANNUAL MEETING SPECIAL SESSION FOR STUDENT RESEARCH, Chicago, IL

CONTRIBUTED PRESENTATIONS

- 2023 | *How might climate change affect indices of abundance? A simulation study starting point.,*
INTERNATIONAL COUNCIL FOR THE EXPLORATION OF THE SEAS (ICES) ANNUAL MEETING, Bilbao, Spain
- 2023 | *How might climate change affect indices of abundance? A simulation study starting point.,*
NOAA NATIONAL STOCK ASSESSMENT WORKSHOP, Providence, RI
- 2023 | *Simulating the impact of climate change on survey indices of abundance.,*
SOCIETY FOR MATHEMATICAL BIOLOGY (SMB) VIRTUAL MINI-CONFERENCE, Held Virtually
- 2021 | *Modeling the Effect of HIV/AIDS Stigma on HIV Infection Dynamics in Kenya,*
FITCHBURG STATE UNIVERSITY SPEAKER SERIES
- 2020 | *Modeling the Effect of HIV/AIDS Stigma on HIV Infection Dynamics in Kenya,*
SOUTHERN AFRICA MATHEMATICAL SCIENCES ASSOCIATION ANNUAL CONFERENCE, Held Remotely
- 2019 | *Evaluating Threats to Diamondback Terrapins in a Coastal Carolina Salt Marsh,*
SOUTHERN AFRICA MATHEMATICAL SCIENCES ASSOCIATION ANNUAL CONFERENCE, Blantyre, Malawi
- 2019 | *Matrix and Agent-Based Modeling of Diamondback Terrapins,*
SPRING DEVELOPMENT DAY, Fitchburg State University, Fitchburg, MA
- 2018 | *Constructing a Habitat Suitability Model for Wild Boar in Great Smoky Mountains National Park Using Environmental Predictors and Presence Only Data,*
SPRING DEVELOPMENT DAY, Fitchburg State University, Fitchburg, MA
- 2016 | *Modeling the Role of Education in Limiting a Future Outbreak of Ebola,*
SOUTHERN AFRICA MATHEMATICAL SCIENCES ASSOCIATION ANNUAL CONFERENCE, Pretoria, South Africa
- 2015 | *Modeling Canine Distemper Virus in an Animal Shelter,*
SOUTHERN AFRICA MATHEMATICAL SCIENCES ASSOCIATION ANNUAL CONFERENCE. Windhoek, Namibia,
- 2014 | *Modeling Feral Hogs in Great Smoky Mountains National Park,*
SOUTHERN AFRICA MATHEMATICAL SCIENCES ASSOCIATION ANNUAL CONFERENCE, Victoria Falls, Zimbabwe
- 2014 | *Modeling Feral Hogs in Great Smoky Mountains National Park,*
INTERNATIONAL SYMPOSIUM ON BIOMATHEMATICS & ECOLOGY: EDUCATION & RESEARCH, Harvey Mudd College, Claremont, CA

POSTER PRESENTATIONS

- 2018 | *Modeling Feral Hogs in Great Smoky Mountains National Park*,
5TH ANNUAL SCIENCE SYMPOSIUM., Fitchburg State University Fitchburg, MA
- 2017 | *Modeling Feral Hogs in Great Smoky Mountains National Park*,
4RD ANNUAL SCIENCE SYMPOSIUM., Fitchburg State University Fitchburg, MA
- 2018 | *Modeling Feral Hogs in Great Smoky Mountains National Park*,
46TH ANNUAL JOHN H. BARRETT MEMORIAL LECTURES, University of Tennessee, Knoxville,
TN
- 2016 | *Evaluating Multi-Sensory Learning and Relationship Building through STEmpunk: a Reverse
Science Fair*,
WOMEN IN STEM RESEARCH SYMPOSIUM., University of Tennessee Knoxville, TN
- 2015 | *Modeling Feral Hogs in Great Smoky Mountains National Park*,
MATHEMATICS OF PLANET EARTH WORKSHOP ON EDUCATION FOR THE PLANET EARTH OF
TOMORROW, NIMBioS, Knoxville, TN
- 2015 | *Modeling Feral Hogs in Great Smoky Mountains National Park*,
MATHEMATICS OF PLANET EARTH WORKSHOP ON MANAGEMENT OF NATURAL RESOURCES,
Howard University, Washington D.C.

ADDITIONAL CONFERENCES ATTENDED

- 2023 | JOINT MATHEMATICS MEETING. Boston, MA
- 2020-21 | SOCIETY FOR MATHEMATICAL BIOLOGY ANNUAL MEETING. Held remotely
- 2017 | SOUTHERN AFRICA MATHEMATICAL SCIENCES ANNUAL MEETING, Arusha, Tanzania
- 2017 | MATHEMATICAL ASSOCIATION OF AMERICA'S MATHFEST, Chicago, IL
- 2017 | MASSACHUSETTS PROJECT KALEIDOSCOPE REGIONAL SUMMER MEETING, Fitchburg MA
- 2017 | JOINT MATHEMATICS MEETING, Atlanta, Georgia
- 2016 | MATHEMATICAL ASSOCIATION OF AMERICA'S MATHFEST, Columbus, OH
- 2015 | MAA SOUTHEASTERN SECTION MEETING. UNIVERSITY OF NORTH CAROLINA, Wilmington, NC
- 2014 | AMS SECTIONAL MEETING, University of Tennessee, Knoxville, TN
- 2013 | SOUTHEAST-ATLANTIC REGIONAL CONFERENCE ON DIFFERENTIAL EQUATIONS, Knoxville, TN
- 2013 | RESOURCE MODELING ASSOCIATION ANNUAL MEETING, Cornell University, Ithaca, NY

SERVICE TO THE DISCIPLINE

- 2020 | Judge for *Undergraduate Challenge Using Differential Equations Modeling Challenge*
SIMIODE, Held remotely
- 2019 | Co-Organizer of *STEM Workshop for high school teachers*
SAMSA ANNUAL CONFERENCE, Blantyre, Malawi
- 2019 | Local Organizing Committee for *MAA Northeast Section Meeting*
MATHEMATICAL ASSOCIATION OF AMERICA, Fitchburg, MA
- 2017 | Presenter in *STEM Workshop for high school teachers*
SAMSA ANNUAL CONFERENCE, Arusha, Tanzania
- 2017 | Co-organizer of a panel session titled *Where are the math majors? Broadening scope by increasing mathematics enrollment*
MATHEMATICAL ASSOCIATION OF AMERICA'S MATHFEST, Chicago, IL

AWARDS

- 2016 | GRADUATE STUDENT ACHIEVEMENT AWARD
Department of Mathematics, University of Tennessee
- 2015 | SIAM AWARD FOR EFFORT AND ACHIEVEMENT
Society for Industrial & Applied Mathematics
- 2013 | DOROTHEA & EDGAR D. EAVES TEACHING AWARD
Department of Mathematics, University of Tennessee

PROFESSIONAL SOCIETIES

- | American Mathematical Society (AMS)
- | Society for Mathematical Biology (SMB)
- | Mathematical Association of America (MAA)
- | Society for Industrial and Applied Mathematics (SIAM)
- | Southern Africa Mathematical Sciences Association (SAMSA)

WORKSHOPS AND CERTIFICATE PROGRAMS

- 2020- Present | *The Faculty Academy*- Training to reach students at-risk, FITCHBURG STATE UNIVERSITY, Facilitated by Dr. Paul Hernandez
- 2020- Present | *Dynamics of Infectious Diseases: Ecological Models Across Multiple Scales*, AMS MATHEMATICS RESEARCH COMMUNITY, Held remotely
- 2021 | *Masamu Advanced Study Institute Workshop in Mathematical Sciences*, Held remotely
- 2020 | Held remotely
- 2019 | Blantyre, Malawi
- 2017 | Arusha, Tanzania
- 2016 | Pretoria, South Africa
- 2015 | Windhoek, Namibia
- 2014 | Victoria Falls, Zimbabwe
- 2020 | *Workshop on Mathematical Models in Understanding COVID-19*, INSTITUTE FOR PURE AND APPLIED MATHEMATICS AT UCLA, Held Remotely
- 2018 | *Applications of Spatial Ecology: Ecological Niche Modeling*, NIMBIO5 AT THE UNIVERSITY OF TENNESSEE, Knoxville, TN
- 2016- 2017 | *Project NExT Fellowship*, MATHEMATICAL ASSOCIATION OF AMERICA, Various Locations
- 2017 | *Course Redesign Workshop*, CENTER FOR TEACHING AND LEARNING AT FITCHBURG STATE UNIVERSITY, Fitchburg, MA
- 2011- 2016 | *Teaching Certificate Program*, DEPARTMENT OF MATHEMATICS, UNIVERSITY OF TENNESSEE, Knoxville, TN
- 2015 | *Mathematics of Planet Earth Workshop on Education for the Planet Earth of Tomorrow*, NATIONAL INSTITUTE FOR MATHEMATICAL & BIOLOGICAL SYNTHESIS, Knoxville, TN
- 2015 | *Mathematics of Planet Earth Workshop on Management of Natural Resources*, HOWARD UNIVERSITY, WASHINGTON, D.C.
- 2017 | *Modeling the Spread & Control of Ebola in West Africa - A Rapid Response Workshop*, GEORGIA INSTITUTE OF TECHNOLOGY, Atlanta, GA
- 2014 | *Best Practices in Teaching Certificate Program*, THE GRADUATE SCHOOL, UNIVERSITY OF TENNESSEE, Knoxville, TN
- 2014 | *Industrial Mathematical / Statistical Modeling Workshop*, STATISTICAL & APPLIED MATHEMATICAL SCIENCES INSTITUTE, NCSU, Raleigh, NC
- 2014 | *Parameter Estimation for Dynamic Biological Models Workshop*, NATIONAL INSTITUTE FOR MATHEMATICAL & BIOLOGICAL SYNTHESIS, Knoxville, TN

UNIVERSITY SERVICE AND OUTREACH

FSU = Fitchburg State University

UT = University of Tennessee

- 2021-present | Center for Teaching and Learning New Faculty Mentor (FSU)
- 2017-present | Center for Faculty Scholarship Advisory Board (FSU)
- 2017-present | Faculty advisor for Fitchburg State University Chess Club (FSU)
- 2017-present | Crocker Center for Community Scholarship group member (FSU)
- 2016-present | Mathematics Department Seminar Committee (FSU)
- 2016-present | Elizabeth Haskins Mathematics Competition Committee (FSU)
- 2020-2021 | First Year Experience (FYE) Committee (FSU)
- 2020 | Falcons Supporting Falcons Initiative Spring and Fall 2020 (FSU)
- 2019-2020 | Co-Organizer for *Undergraduate Conference on Research and Creative Practices* (FSU)
- 2018-2019 | Search committee for Tenure-Track Position in Mathematics (FSU)
- 2018-2019 | Created textbook and course material for QR course *Math in Society* (FSU)
- 2017-2019 | Living and Learning Community Facilitator (FSU)
- 2016-2017 | Interdisciplinary STEM Major Formation Committee (FSU)
- 2016-2017 | Pi Mu Epsilon and Math Club Advisor (FSU)
- 2016-2017 | All University Policies Committee (FSU)
- 2013-2016 | Student chapter for the Society for Industrial and Applied Mathematics (UT)
President (2014-2016) and Treasurer (2013-2014)
- 2015 | Coordinator for *STEMPunk Reverse Science Fair* (UT)
- 2010-2015 | High school math contest official (UT)
- 2014 & 2015 | Math assistant for *Adventures in STEM Day Camp* (UT)
- 2014 | Middle School Mathematics Ambassador (UT)
- 2013-2014 | Graduate student peer teaching mentor (UT)