

TERRIANNE LAVIN

302.489.9424 | talavin0@gmail.com

SUMMARY STATEMENT

Creating a welcoming classroom where students from diverse backgrounds can learn environmental science, physical geography, and atmospheric science is a commitment I make to my students. I do this by using real world examples and encouraging active participation in current environmental issues. In addition, I explore the historical and current causes, philosophies, and ethics surrounding global environmental problems, and climate change and justice. I create space for my students to explore these concepts in-depth while encouraging independent, inclusive, and respectful discourse. My continued self-education explores innovative, scientifically based, strategies to teaching.

EDUCATION

Ph. D. Climatology 1997

University of Delaware, Newark DE

Relationships of Climate to Trap Collections of *Aedes albopictus* in Polk County, Florida

MS Geography 1992

University of Delaware, Newark DE

Modeling Climatic Influences on Dengue-transmitting Populations of *Aedes aegypti* in Puerto Rico

BS Meteorology 1987

University of Kansas, Lawrence KS

PROFESSIONAL EXPERIENCE

University of Delaware, Department of Geography and Spatial Science, Newark, DE 2023/present

Assistant Professor, CT – Ongoing

Undergraduate Program Coordinator – Ongoing. Responsible for coordinating undergraduate student advisement with the department's and CEOE advisors.

Environmental Studies Program Director – Ongoing. Responsible for coordinating undergraduate Environmental Studies students with CEOE advisors.

Grant \$6000. KU Center for Online and Distance Learning – Ongoing. Created new online, cross-listed, eight-week course (ENVR/GEOG 148). Course is disability accessible and completely uses open educational resources. Began Fall 2022

Worldwide Teach-In for Climate Change and Justice March 30, 2022 – Ongoing. Initiated, led, and organized, in conjunction with KU's TheCommons, the University of Kansas's participation in this global event introduced by Bard College Graduate Program in Sustainability. This event encompassed 15 speakers over a 3-hour period and was live broadcast with closed captioning.

Grant \$3,500. Health, Humanities, and Arts Research Collaborative Seed Grant Competition, *Community Conversations in Sustainability: Building Momentum to Bridge Climate and Health Across KU Campuses and the Community* – Ongoing. Funded by KU and KUMC, co/members Shelley Bhattacharya and Beto Lugo. This grant supports the creation of a year-long, monthly forum, "Community Conversations in Sustainability" to discuss how climate affects health and to encourage sustainable practices at KUMC, KU-Lawrence, and Wyandotte County. Particular attention is being given to underserved and minority communities. Began February 14, 2022.

Grant \$1,500. Center for Teaching Excellence, "Faculty Seminar on Diversity and Inclusive Pedagogy" – Ongoing. Participants read and explore literature on inclusive teaching and apply those ideas to a course they are teaching in the Fall 2022 semester. Poster presentation Spring 2023.

Grant \$6,000. Center for Teaching Excellence, 2021 "Ideas to Action" March 15, 2021. This grant supports the development and mapping of new departmental pathways for undergraduate students reflecting the current strengths of the KU's Geography and Atmospheric Science faculty. Ideas to Action offers opportunities to refresh or reimagine program learning objectives and to consider how courses scaffold student achievement of those objectives. co/Katie Rhine and Abel Chickanda.

Grant \$1,000. Revolutionizing Academia Learning Community Summer Grant Summer 2021. Supporting a KU Geography and Atmospheric Science Graduate Student to create an audio version of the department's Physical Geography Lab Manual for the visually impaired.

Selected as a Mentee for Mentoring Circles for Disability Inclusion Program – Ongoing. Funded by Americans with Disabilities Resource Center for Equity and Accessibility. February 18, 2021. This program culminated in a **Poster Presentation, *A Place to Sit: When Standing is Not an Option***. Began Spring 2021.

Specific Continuing Education Conferences – Ongoing. *Unpacking Whiteness in the Workplace 1, 2, and 3; 21-Day Racial Equity and Social Justice Challenge Kansas City YWCA; Revolutionizing Academia: Engaging Anti-Racism and Restructuring Curricular Practices; Introduction to Compassionate Communication; A Deeper Dive into Empathy; Annual Big 12 Teaching & Learning Conference; Michael Tilford Conference on Diversity and Multiculturalism; JEDI in Action (AAG) (2022).* Fall 2020 to present.

Continuing Education via numerous University of Kansas programs promoting – Ongoing. *Best Teaching Practices; Incorporating Technology into the Classroom; Development of Hybrid and Online Courses; Utilizing Open Educational Resources to Minimize Student Inequities.* Fall 2020 to present.

Chair, Department’s Diversity, Equity, And Inclusion (Dei) Committee –Ongoing. Focus updating Department’s DEI statement; develop Field Ethic Guidelines; adapt current, and create new, curriculum to be accessible for all students; develop methods to be active rather than performative.

University of Delaware, Department of Geography and Spatial Science, Newark, DE 2006/2020

Strengthening Delaware’s Climate Response. Presentation at University of Delaware, Department of Geography & Spatial Sciences Seminar, March 6, 2020.

Strengthening Delaware’s Climate Response. Presentation at 2020 Delaware’s Wetland Conference, January 29, 2020.

Affiliated Faculty. University of Delaware, Department of Geography and Spatial Science, 2020/present.

TEACHING

University of Delaware, Department of Geography and Spatial Science, Newark, DE 2023/present

VISITING ASSISTANT PROFESSOR

GEOG475/675 Satellite Climatology – Use of satellite observations to study the climate system. Discussions consider the development of satellite climatology, sensors, platforms and methodologies used to estimate climate variables from radiance measurements. Aspects of climate that are emphasized include cloud climatologies, cloud systems, atmospheric moisture, radiation budget, land-surface conditions.

ENVR/ENSC450 Senior Capstone ProSeminar in Environmental Science – The capstone project provides students an opportunity to integrate and synthesize the knowledge they have gained in their studies through the development of an individual and collective research project. The major goals of this course are to help students advance steps toward career preparation and develop networking and professional skills.

GEOG236 Humans & Environmental Stability – Introduces concepts of environmental, economic, and social sustainability and synergies and tradeoffs in the context of food systems; Explores the importance of food systems as both a challenge to and solution for meeting the UN's Sustainable Development Goals for year 2030.

University of Kansas, Department of Geography & Atmospheric Sci. Lawrence, KS 2020/present

ASSISTANT TEACHING PROFESSOR

GEOG500 Senior Capstone in Geography – The capstone project provides students with a broad-based, interdisciplinary educational experience and allows them to integrate and synthesize the knowledge they have gained in their studies. The major goals of this course are to help students synthesize an integrated view of geography, advance steps toward career preparation, and develop networking and professional skills. The course provides an overview of geography as a unified, coherent discipline with multiple perspectives, emphasizes writing and analytical skills, introduces students to a major research project that integrates elements of physical and human geography, cultivates knowledge for future professional development, and introduces students to professional organizations. Students gain experience applying and/or interviewing for professional positions and are introduced to multiple professional development and career services on campus.

In addition, I have expanded this capstone to include students' individual, written research projects to culminate in a strong, cohesive group project presented to the public for comment and critique via the University's Undergraduate Research Symposium.

GEOG316 Methods Analyzing Geographical Data – Introduces the benefits and limitations of using quantitative methods to analyze geographical problems. Covers traditional descriptive (e.g., measures of central tendency) and inferential statistics (e.g., hypothesis testing) but also inherently geographical approaches such as shape and point pattern analysis, and spatial autocorrelation. Laboratory emphasizes using the computer to explore and analyze geographical problems.

GEOG104 Introduction to Physical Geography – The components of the physical environment are explored to familiarize the student with their distributions and dynamic nature. Major topics include the atmosphere, landforms, soils, and vegetation together with their interrelationships and their relevance to human activity.

GEOG105 Physical Geography Lab – A laboratory course designed to complement GEOG104 in satisfying the laboratory science requirement. Laboratory exercises include a wide variety of analyses using data on the atmosphere, hydrosphere, biosphere, and lithosphere.

GRADUATE TEACHING ASSISTANT SUPERVISOR

Manages four to twelve, geography graduate students in teaching multiple, individual, physical geography, laboratory sections. This entails weekly meetings, lab preparation, and damage control.

Pennsylvania Homeschooler Advanced Placement (AP) Online Classes 2020/present

AP ENVIRONMENTAL SCIENCE PROFESSOR

Prepares international, homeschooled, high school students to achieve a passing score for the AP College Board Environmental Science Exam. This course also provides students with a laboratory science credit.

University of Delaware, Department of Geography and Spatial Science, Newark, DE 2006/2020

ADJUNCT ASSISTANT PROFESSOR OF GEOGRAPHY

GEOG690/DISA667 Natural Hazards for Disaster Research – Cross college, graduate course covering physical forces behind geological, meteorological, and biological hazards, including earthquakes, volcanoes, sea level rise, tornadoes, tsunamis, El Niño, hurricanes, floods, droughts, fires, landslides, and epidemics.

GEOG622/422 Resources, Development, and the Environment – Focuses on food, resources, energy, and population issues in relationship to economic development and the global environment. Explores climate change causes, effects, and mitigation using primary sources and the US 4th National Climate Assessment 2018.

ENSC/ENVR450 Senior Capstone ProSeminar in Environmental Science – previous knowledge

GEOG342 Bioclimatology – previous knowledge

GEOG235 Conservation of Natural Resources (w/wo Honors) – previous knowledge

GEOG220/221 Meteorology w/Lab – previous knowledge

GEOG103 Topics in Human Environment: Geography of Infectious Diseases – Introductory course examining worldwide, geographic distribution of emerging infectious diseases with respect to globalization. Special emphasis on physical and human geographical disease drivers.

GEOG101 Physical Geography: Climatic Processes w/Lab – previous knowledge

University of South Carolina, Columbia, SC 2000/2004

EDITOR, ASSISTANT 2002-2004 w/Editor, Dr. Susan Cutter

International Journal of Environmental Hazards, currently titled Global Environmental Change Part B: Environmental Hazards

Received papers, evaluated for content and clarity, submitted to appropriate reviewers for double-blind review process, liaised between authors and reviewers, and edited final drafts.

CO-PRINCIPAL INVESTIGATOR, AWARD: \$180FY03

Development of Climate Indices for Vectors of West Nile Virus

NOAA Climate Observations and Services Program and National Climatic Data Center project to develop experimental indices for improving scientific understanding of the relationships between climate and the abundance of mosquitoes that transmit West Nile Virus.

ADJUNCT ASSISTANT PROFESSOR OF GEOGRAPHY

346 Climate and Society – Examines interrelationships between climate and human activities, including the climate system, climate variability, and climatic change. Emphasis placed on the social, economic, and political factors that influence how weather and climate affect people.

Florida Atlantic University, Palm Beach Gardens & Boca Raton, FL 1995/1999

ASSISTANT PROFESSOR OF GEOGRAPHY 1996/1999

VISITING PROFESSOR OF GEOGRAPHY 1995/1996

GEO4280 Water Resources – Distribution, management, and use of water. Topics include agricultural and personal water use, wetland degradation, and pollution.

GIS3015 Introduction to Mapping and GIS – Analysis of map properties and use of maps as sources of information. Essentials of location, scale, projection, direction, elevation, and general map elements. Introduction to map making in geographic information systems.

GEA3003 Developing World – Survey of the physical, economic, political, and social systems that characterize the less developed nations of the world.

EVR2017 Environment and Society – Introduction to the study of major environmental problems and issues confronting modern society: economic and ecosystem concepts, population patterns and dynamics, resource use and misuse, environmental quality, and environmental citizenship.

MET2010 Weather and Climate – Introduction to solar radiation, temperature, moisture, and pressure systems of the atmosphere. Examination of the fundamental elements of weather including wind systems and storms. The global distribution of climatic zones. Impact of climate on human activity.

GEA2000 World Geography – Examination of contemporary world problems through geographical analysis of physical, economic, social, and political systems of major countries and world regions.

EVR1001 Environmental Science and Sustainability – Introduction to the foundations of environmental science, with a focus on global change. The human impact on the environment as it relates to economy, health, and ethics is explored. Course includes an emphasis on climate change, ecosystem disruption, and solutions.

Indiana University, Bloomington, IN 1995

VISITING INSTRUCTOR OF GEOGRAPHY

GEOG107 Physical Systems of the Environment – Explores the physical processes of the Earth—its weather, climate, landforms, oceans, and ecosystems—and analyzes a range of environmental issues.

K-12, ADVOCACY, NON-PROFIT

BOARD CHAIR DATA AND PUBLICATIONS

Fund for Women Delaware, Board of Trustees 2012/2019

Non-Profit Board member for Fund for Women, a \$3.8 million endowment held at the Delaware Community Foundation. Fund for Women generates grants to Delaware non-profits benefitting the lives of women and girls in the state of Delaware. As a board member, I raise awareness, advocate, and help increase donations by managing a database for our statewide granting organization. I create, design, edit publications, compile reports, calculate statistical trends, and track donations and grants. I also create and design WebLinks for Fund for Women events.

BLUE HEN LEADERSHIP PROGRAM GRANT RECIPIENT

University of Delaware 2016/7, 2017/8, 2018/9

Authored, and was awarded, competitive grant proposals in 2016, 2017, and 2018, to enable Fund for Women to receive University of Delaware student interns for specific projects relating to Fund for Women’s non-profit mission.

BLUE HEN LEADERSHIP PROGRAM INTERN ADVISOR

University of Delaware 2016/7, 2017/8, 2018/9

Counsels and supports BHLIP interns while they develop their concepts for growing Fund for Women's vision and mission. Advises development of story board, music, and videography for promotional videos.

DELAWARE STATE DEPARTMENT OF EDUCATION ADVISOR 2016/present

Advises DEDOE on status of homeschooling in state. Working with state legislators and judicial members to develop a comprehensive, working relationship between DE homeschoolers and DOE.

DELAWARE STATE DEPARTMENT OF EDUCATION LIAISON 2016/7

Assisted rewrite, content, and policy of Delaware State, Department of Education, Home Education webpage.

K-12 INSTRUCTOR Newark Children's Inclusive Homeschool (NICHe) 2003/2020

Primary instructor for two children, grades first through twelfth. Developed appropriate, individualized curricula. Researched traditional and alternative education theories and methods, including online course platforms. Maintaining student records, complying with state laws, and reporting procedures.

Taught and coordinated with co-operatives for education and group projects. Researched and selected appropriate resources within a financial budget per student. Developed and managed learning schedules. Organized extra-curricular activities and taught various group classes.

OWNER National Gifted, Teen, Homeschooled Email List (TAG-Ur-IT) 2012/2020

Created and maintained national email list for teen members. List is an online environment for teens to openly discuss academics and personal interests in safe, private, and secure manner.

CHAIR RELIGIOUS EXPLORATION COMMITTEE Unitarian Universalist Society of Mill Creek 2013/2017

Managed goals and activities of the REC, coordinated programming with Director of RE, and liaised with the UUSMC board and Leadership Council.

YOUTH VOLUNTEER DIRECTOR Unitarian Universalist Society of Mill Creek 2011/2012

Led weekly discussions regarding current political, philosophical, and environmental issues with YRUU; a high school program for youth members of UUSMC.

COMMITTEE MEMBER RELIGIOUS EXPLORATION Unitarian Universalist Society of Mill Creek 2006/2010

Assisted the Director of RE in identifying and working with task forces to plan and run Children's Worship, seasonal holiday events, and special occasions.

ORGANIZER HOMESCHOOL GYM Hockessin Athletic Club, Homeschool Gym Class 2009/present

Coordinates with HAC management to provide quality physical education for the Delaware and surrounding area homeschool population.

HONORS

Driving Force Award 2018 – Fund for Women’s award to an outstanding Board of Trustees member for advancing the vision and mission of its organization over multiple years.

1st Place, Association of American Geographer’s Climate Specialty Group, Student Paper 1997

1st Place, Florida Mosquito Control Association, Student Paper 1996

MEMBERSHIPS

American Association of Geographers - present

Fund for Women 2012-present, A \$3.8 million Endowment held at the Delaware Community Foundation. Fund for Women generates grants to Delaware non-profits benefitting the lives of women and girls in the state of Delaware.

INTERESTS

Teaching, Environmental Science, Geography, Meteorology, Climate Change and Justice, Climatology, Water Resources, Nonprofit Volunteer, Social and Political Inclusion, Logic Puzzles, Running, Reading, Philosophy, Philanthropy, Music.