

Gabriela Hamerlinck

Department of Geography

University of Florida

3139 Turlington Hall

Gainesville, FL 32611-7315

Phone: 352.294.9051

ghamerlinck@ufl.edu

Departmental website: www.geog.ufl.edu

My specialization in the field aligns with the University of Florida's Department of Geography focus area of Medical Geography in Global Health and educational pedagogies to increase representation and retention in STEM. My research interests center on mathematical modeling of host-parasite interactions, geospatial modeling of disease spread across landscapes and through populations, and discipline-based education research. As a department administrator, I have expertise in managing academic programs, supervising staff and graduate teaching assistants, and fostering collaborative partnerships.

EDUCATION

PhD 2015 University of Iowa Biology

Dissertation title: Coevolution of *Rhagoletis* hosts and their parasitic wasps.

Advisor: Dr. Andrew A. Forbes

Graduate Certification 2014 University of Iowa Certificate in College Teaching

BSc 2010 Augsburg College, MN Biology

BSc 2010 Augsburg College, MN Mathematics

ACADEMIC APPOINTMENTS

2024-current: Associate Instructional Professor, Department of Geography, University of Florida

2024-2026: Associate Chair, Department of Geography, University of Florida

2025-2026: Dunlevie Term Professor, University of Florida Honors Program

2019-2024: Assistant Instructional Professor, Department of Geography, University of Florida

2018-2019: Postdoctoral Researcher, Quantitative Disease Ecology and Conservation Lab Group, CDC Center of Excellence in Vector Borne Diseases, Emerging Pathogens Institute, University of Florida

2017-2017: Adjunct Professor, Department of Biology, Madison Area Technical College (Madison, WI)

2015-2018: Postdoctoral Fellow, BioQUEST Curriculum Consortium, Inc., Quantitative Undergraduate Biology Education and Synthesis (QUBES) project (Madison, WI)

As a postdoctoral Fellow for the QUBES project, I facilitated faculty professional development workshops and online collaborations on quantitative biology topics. I provided pedagogical support as faculty participants implemented changes in their undergraduate classrooms. I was also responsible for programmatic assessment and research related to these workshops and collaborations. I worked as a liaison between the QUBES and partner organizations (national and international professional societies, NSF funded projects, academic institutions, etc.) to develop relationships, pursue projects and funding, and assist in organizing workshops and events.

LEADERSHIP TRAINING AND EXPERIENCE

Administrative Leadership

Associate Department Chair (August 2024 to current) of the University of Florida's Department of Geography, I oversee academic and operational functions of the department in partnership with the department Chair. As Associate Chair, I manage a wide range of responsibilities, including curricular planning, scheduling, and review, overseeing graduate teaching assistant appointments and performance, and coordinating the summer budget with the College of Liberal Arts and Sciences.

Notable Leadership Highlights

University of Florida Advanced Leadership for Academics and Professionals (ALAP). Selected as one of only 10 UF faculty to participate in the 2025-2026 cohort of ALAP program, which offers UF academic and professional leaders the opportunity to enhance their leadership skills. The program is run in collaboration with UF's Office of the Provost, Faculty Senate, and Human Resource Services. It is designed based on leadership competencies crucial for success at UF and across American institutions of higher education.

AI Faculty Fellow (2026-2027). Invited to become a Faculty Fellow through the University of Florida's AI² Center to lead a faculty learning community for cross-University development of AI-focused CURE (Classroom-based Undergraduate Research Experience) courses. The Faculty Fellows are tasked with building a university-wide framework for AI literacy, workforce development, and interdisciplinary innovation. My project builds connections between the Center for Teaching Excellence, the AI² Center, and faculty from all UF colleges.

TEACHING EXPERIENCE

University of Florida

Peoples and Plagues (GEO3454)* Live: annually 2018-2024, Asynchronous: fall 2025

Introduction to Medical Geography (GEO3452)* Live or asynchronous at least once per academic year since 2020

The Next Pandemic (GEO2301, previously IDS2935)* Live or asynchronous at least once per academic year since 2020

Global Patterns of Sexually Transmitted Infections (IDS2935)* Live: fall since 2021

Artificial Societies (previously Introduction to Spatial Agent-Based Modeling) Live: fall 2021-2023

UnCommon Reads (UF Honors) Live: Spring 2023

Truth in Numbers: The Science of Spotting Misinformation (UF Honors Signature Seminar) Live: Spring 2026

GeoGator Summer Research Program (GEO/GIS4911) Program Director & Instructor for summer professional development series since 2023

Geography Department Colloquium (GEO5920) Spring 2024-2025

Madison Area Technical College

Environmental Issues (20806280-8001) Fall 2017 (instructor of record)

University of Iowa

Origins of Life in the Universe (BIOL:1060) Fall 2013 (graduate teaching assistant)

Ecology (BIOL:2673) Fall 2011 (graduate teaching assistant)

Other teaching experience

GRE Preparation (University of Iowa – McNair Scholars Program professional development) Summers 2010-2015

Calculus Tutor (University of Iowa – Women in Science & Engineering Program) Spring 2014-Spring 2015

New TA Orientation Leader (University of Iowa – Center for Teaching) Summer 2014

*indicates this course was taught during COVID in asynchronous and HyFlex formats, even though the course was not originally designed in this modality.

PEDAGOGICAL TRAINING & CERTIFICATES

2025-2026 Selected as one of 15 participants for “AI in Research in Teaching and Learning” Faculty Learning Community

2025 Earned Elevate Exploration and Elevate Mission Complete certificates from University of Florida’s Center for Teaching Excellence

2024-2025 Selected as one of 17 total participants for the University of Florida’s “Elevate” program. This is a customized professional development opportunity for faculty to gain targeted experience in best practices and research-based strategies to incorporate into teaching.

2022-2023 Selected to participate in University of Florida’s “Quest 3: Experiential Learning” Faculty Learning Community

2022 Fostering Inclusive Communities for Learning and Designing an Inclusive Course badge from University of Florida’s Center for Instructional Technology and Training

2021 Accessible Online Environments badge from University of Florida’s Center for Instructional Technology and Training

2020 Earned 4 certificates from University of Florida’s Center for Teaching Excellence (Great Teaching for New Faculty; Student Focused Teaching; Great Online Teaching; Global Learning)

2020 Selected as a Global Learning Institute participant

2015 Effective Teaching Institute participant, University of Iowa

2014 Participant in “Teach Your Research” Curriculum Design workshop offered at the University of Iowa

2013 Attendee at American Society of Biochemistry and Molecular Biology’s Symposium on Scientific Communication and Outreach. University of Missouri, Columbia, MO

MENTORING EXPERIENCE AND TRAINING

Coordinator and program mentor for the GeoGator Summer Research Program. This is a 12 week research experience that pairs undergraduate students with faculty research mentors. I organize, coordinate, and run the program, and provide weekly professional development and mentoring for the students. Listed by year and total students.

2023 (12), 2024 (10), 2025 (11), 2026 (7)

Mentor for undergraduate research hours (GEO4911, GIS4911). Listed by semester and total students.

Spring 2022 (1), Fall 2023 (1), Spring 2024 (2), Summer 2024 (1), Fall 2024 (2), Spring 2025 (2), Spring 2026 (2).

Mentor for an undergraduate University Scholars Program award 2024-2025 academic year. Project titled “Phenology of Chagas Disease Vectors in Determining Infectious Capabilities and Understanding Disease Burden in Florida.”

Second reader for undergraduate honor thesis (GEO4970). Listed by semester and total students.

Spring 2022 (1), Spring 2024 (2).

Mentor for an undergraduate research project (GEO4911, Spring 2022) resulting in a manuscript published in WAVES (undergraduate research journal), and two poster presentations.

Mentor for an undergraduate CLAS Scholar’s Award 2020-2021 academic year. Project titled “Agent based modeling of African Swine Fever Virus infection dynamics in a closed feral and domestic swine population.”

Mentor for University of Florida’s University Multicultural Mentoring Program. 2019-2021.

Served as a pedagogical mentor for a Ph.D. student enrolled in the University of Florida’s Preparing Future Faculty program.

Spring 2020, Spring 2024.

Mentored one Ph.D. student and one sophomore undergraduate on a molecular phylogeny and biogeography project. June 2018 to August 2019.

“Entering Mentoring: A seminar to Train a New Generation of Scientists” 5-week workshop, University of Iowa, Summer 2014.

Advised one University of Iowa undergraduate mentee in an independent honors research project in the Forbes lab. The student graduated with honors in Biology and has now completed veterinary school. August 2012 to May 2014.

Graduate Students

Erin Mariotti PhD Committee Member (Anticipated graduation May 2027)

Morgan Metrailer PhD Committee Member (Graduated August 2026)

Dissertation: Landscape Geography of Zoonotic and Environmental Pathogens: Ecological, Cultural, and Genetic Insights Into Pathogen Distribution and Bacterial Diversity

Ian Pshea-Smith PhD Committee Member (Graduated May 2026)

Dissertation: Modeling Vector Ecologies Using Frameworks from Geography, Community Ecology, and Public Health

Tan Luong PhD Committee Member (Graduated August 2024)

Dissertation: Anthrax Spatio-Temporal Patterns and Disease Control Policies in Vietnam

Morgan Metrailer MS Committee Member (Graduated August 2023)

Thesis: Spatial and Phylogenetic Patterns Reveal Hidden Infection Sources of *Bacillus anthracis* in an Anthrax Outbreak in Vietnam

Shreejana Bahattarai PhD Committee Member (Graduated May 2023)

Dissertation: Evaluating the Progress of Malaria Control and Effectiveness of Vector Control Interventions for Eliminating Malaria from Nepal

Undergraduate Students

Diana Ishaev 2026 Faculty Mentor honors thesis: Thermal and Biochemical Influences on Historical Epidemic Patterns

Catherine Smith 2026 Faculty Mentor for project: Regional Climate and Spatial Distribution of Medieval Plague Outbreaks

Anna Shannin 2026 Honors thesis second reader (Graduated Magna Cum Laude)

Thesis: Changing seasons of dengue suitability in Florida: CMIP6 projections

Aubrey Dolbeck 2024 Honors thesis second reader (Graduated Summa Cum Laude)

Thesis: Using Geographic Information Systems to Examine Coastal Erosion and Land Cover Change in Southern California

Jaclyn Siu 2024 Honors thesis second reader (Graduated Magna Cum Laude)

Thesis: Spatiotemporal investigation of anthrax outbreak timing and intensity in West Texas using enhanced vegetation indices at multiple scales

Aryn O'Dell 2024 Honors thesis second reader (Graduated Magna Cum Laude)

Thesis: Quantifying livestock commingling in mapped areas of sustained *Brucella* spp. transmission in Kazakhstan

Sloane Murphy 2023-2024

2022 University of Florida University Scholars Program scholarship recipient. Faculty Mentor for project: Phenology of Chagas Disease Vectors in Determining Infectious Capabilities and Understanding Disease Burden in Florida

Faculty Mentor for project: Disparate Biosocial Risk of Malaria and Sickle Cell Disease in The United States: A Review

Chloe Seifert 2025

2024 Faculty Mentor for HSC4913 project: Simulating socio-ecological cascades during the second plague pandemic

Faculty Mentor for project: Student Perspectives on Wicked Problems in Interdisciplinary STEM Education

Ashlyn Ludovici 2022 Faculty Mentor for project: Targeted prevention and control strategies for MSM and IDU populations can reduce stigma and global burden of HIV

Lylybell Zhou 2022 Honors thesis second reader (Graduated Summa Cum Laude)

Thesis: A networks-based approach to spatial-genomic associations of *Brucella* spp in Southern Kazakhstan

Emily Gordon 2021 University of Florida CLAS Scholars Program scholarship recipient

Faculty Mentor for project Agent based modeling of African Swine Fever Virus infection dynamics in a closed feral and domestic swine population

Emily Stone 2018

Postdoctoral Mentor for project: Examining wing length–abundance relationships and pyrethroid resistance mutations among *Aedes albopictus* in a rapidly growing urban area with implications for mosquito surveillance and control

PUBLICATIONS

* undergraduate co-author, \$ graduate student co-author

Research Papers

Southworth, J., Migliaccio, K. W., Hamerlinck, G., Glover, J., Eldayrie, E., Kio, P. (2026). Participatory foresight for institutional AI transformation in higher education. *Studies in Higher Education*. (in review).

Dewsbury, B., Defeo, D. J., Hamerlinck, G., Harrison, E., Mcelroy, H., Rissler, H., Reeves-Pepin, J., & Uno, G. (2026). A pedagogy of intentionality: A framework for curricular decision-making around teaching sensitive content in STEM courses. *American Biology Teacher*. (in press)

*Murphy, S., *Pope, A. C., \$Bhosale, C. R., \$Cassidy, S. T., \$Guzman-Garcia, A., \$Huynh, H. D., \$LaBella, B., \$Moreno Peniche, B., \$Obora, R. K., \$Teal, E., \$Travers, D. G., Hamerlinck, G., Beatty, N., Keiser, C. N.

(2026). Exploring Dispersal Behavior in Adult *Triatoma sanguisuga* Kissing Bugs in Alachua County, Florida, USA. *Journal of Undergraduate Research*. (in press)

Smyth, D., Donovan, S., DeFeo, D. J., Fuller, K., Goulet, T., Hamerlinck, G., Harrison, E., Lenahan, M., Reeves-Pepin, J., Rissler, H., and Uno, G. From BioSkills to LifeSkills – A framework for developing life skills for non-science majors in introductory life science courses. *Journal of Microbiology Education*, e00002-26.

*Murphy, S. and Hamerlinck, G. 2025. The perpetuation of disproportionate burden of sickle cell disease in America. *Midwestern Journal of Undergraduate Sciences*, 4(1), 17-19.
<https://doi.org/10.17161/mjusc.v4i1>

\$Metrailer, M.C., Hoang, T.T.H., Jiranantasak, T., \$Luong, T., Hoa, L.M., Pham, Q.T., Hung, T.T.M., Huong, V.T.L., Pham, T.L., Ponciano, J.M. Hamerlinck, G., Dang, D.A., Norris, M.H, and Blackburn, J.K. 2023. Spatial and phylogenetic patterns reveal hidden infection sources of *Bacillus anthracis* in an anthrax outbreak in son La province, Vietnam. *Infection, Genetics and Evolution*, p.105496. (12 pages)

*Ludovici, A. N., *Wells, C. M. and Hamerlinck, G. 2022. Targeted prevention and control strategies for MSM and IDU populations can reduce stigma and global burden of HIV. [Health, Medicine, and Society special issue] *WAVES: an undergraduate journal*. Available at
<https://www.wavesjournal.org/healthmedicinesociety#Ludovici>.

\$Mundis, S. J., Hamerlinck, G., *Stone, E. K., Whiteman, A., Delmelle, E., Rapp, T., ... & Ryan, S. J. 2021. Examining wing length–abundance relationships and pyrethroid resistance mutations among *Aedes albopictus* in a rapidly growing urban area with implications for mosquito surveillance and control. *International Journal of Environmental Research and Public Health*, 18(18), 9443.

*Boyles, S.M., C.N. Mavian, E. Finol, M. Ukhanova, C.J. Stephenson, G. Hamerlinck, S. Kang, C. Baumgartner, M. Geesey, I. Stinton, K. Williams, D.K. Mattias, M. Prosperi, V. Mai, M. Salemi, E.A. Buckner, J.A. Lednicky, A.R. Rivers, R.R. Dinglasan. 2020. Under-the-radar dengue virus infections in natural populations of *Aedes aegypti* mosquitoes. *Mosphere*, 5(2).

Ryan, S.J., \$C.A. Lippi, R. Nightingale, G. Hamerlinck, M.J. Borbor-Cordova, M. Cruz B, F. Ortega, R. Leon, E. Waggoner, A.M. Stewart-Iberra. 2019. Socio-ecological factors associated with dengue risk and *Aedes aegypti* presence in the Galápagos Islands, Ecuador. *Int. J. Environ. Res. Public Health*. 16: 682.

Hamerlinck, G., D. Hulbert, G.R. Hood, J.J. Smith, A.A. Forbes. 2016. Histories of host shifts and cospeciation among free-living parasitoids of *Rhagoletis* flies. *Journal of Evolutionary Biology*. 29: 1766-1779.

Hamerlinck, G., N.P. Lemoine, G.R. Hood, K.C. Abbott, A.A. Forbes. 2016. Meek mothers with powerful daughters: effects of novel host environments and small trait differences on parasitoid competition. *Oikos*. 125: 1516-1527.

Hamerlinck, G. 2015. Coevolution of *Rhagoletis* hosts and their parasitic wasps. Doctoral Dissertation. University of Iowa.

Hood, G.R., A.A. Forbes, S. Egan, G. Hamerlinck, J. Smith, and J.L. Feder. 2015. Sequential divergence and the multiplicative origin of community diversity. *Proceedings of the National Academy of Sciences, USA*. 112: E5980-5989.

Forbes, A.A., S. Satar, G. Hamerlinck, A.E. Nelson, J.J. Smith. 2012. DNA barcodes and targeted sampling methods identify a new species and cryptic patterns of host specialization among North American Coptera (Hymenoptera: Diapriidae). *The Annals of the Entomological Society of America*. 105: 608-612.

Book Chapters

Southworth, J., Migliaccio, K., Hamerlinck, G. Building AI Literacy Across the Curriculum: Integrating GeoAI and Big Data to Prepare Future Geospatial Leaders. Bunting, E., Southworth, J., Herrero, H., and Gibbes, C. (eds.) *Remote Sensing, Big Data, and GeoAI: Exploring Applications with Geospatial Insights*. (in press)

Clifton S.M., C.L. Davis, S. Erwin, G. Hamerlinck, A. Vepraukas, Y. Wang, W. Zhang, H. Gaff. Modeling the argasid tick (*Ornithodoros moubata*) life cycle. A. Radunskaya et al. (eds.), *Understanding Complex Biological Systems with Mathematics*, Association for Women in Mathematics Series 14, Springer 2018. <https://link.springer.com/book/10.1007/978-3-319-98083-6>.

Forcey, S., G. Hamerlinck, L. Keefe, W. Sands. The minimal evolution problem in phylogenetics: polytopes, programming and interpretation. R. Robeva and M. Macauley (eds.) *Algebraic and Combinatorial Computational Biology*, Mathematics in Science and Engineering series, Elsevier 2018.

Monographs

Bitton-Bailey, A., Good, R. Z., Hamerlinck, G., and Johnson, M. L. 2025. Empowering honors education: A joint initiative for teaching excellence and curriculum enhancement. Bryan, V. M. and Zubizarreta, J. (eds.), *Honors, Faculty Development, and Centers for Teaching and Learning*. National Collegiate Honors Council. Accessible from <https://digitalcommons.unl.edu/nchcmmono/66/>.

Non-Peer Reviewed Contributions

Hamerlinck, G.; Ruiz, M.\$ (2025). Verified Virus: STI Headline Showdown. QUBES Educational Resources. doi:10.25334/P7ZY-AM69.

GRANTS

Project title: DISES-EX: Simulating social-ecological cascades during the second plague pandemic

Source of support: National Science Foundation

Total award period: 08/01/24-07/31/27; \$749,786

PI: Gauthier, Nicolas; Co-PIs: Hamerlinck, Gabriela; Newfield, Timothy; Wissler, Amanda; Pacheco-Fores, Sofia

Project title: Detecting long-term patterns of climate-pathogen covariability

Source of support: Burroughs Wellcome Fund (PRO00050681)

Total award period: 03/01/23-02/29/24; \$49,824

PI: Gauthier, Nicolas; Co-PI: Hamerlinck, Gabriela

Project title: Disease dynamics of African Swine Fever.

Source of support: American Institute of Mathematics - Structured Quartet Research Ensemble (SQuaRE)

Total award period: 02/23/20-12/31/22. Extended until 12/31/24 due to COVID-19.

PI: Hamerlinck, Gabriela

WORKSHOP PRESENTATIONS AND TRAININGS

Workshops & Trainings (organized and/or led)

2025 National Association of Biology Teachers annual conference (St. Louis, MO), co-led pre-conference workshop "IGELS: Catalyzing Change in Non-Majors Bio Courses"

2025 Designed and co-led a national 4-day course design institute, "Teaching with Authentic Dialogue." Hosted at Johnson County Community College for 35 participants (Overland Park, KS).

2024 National Association of Biology Teachers annual conference (Anaheim, CA), co-led pre-conference workshop "Cultivating Authentic Dialogue in College STEM Classrooms."

2024 University of Florida Interface Teaching Conference (Gainesville, FL), co-led workshop "AI tools for teaching and learning."

2023 National Association of Biology Teachers annual conference (Baltimore, MA), co-led workshop "Interactions in General Education Life Science Courses (IGELS): Introducing the LifeSkills Guide for Undergraduate Faculty."

2023 National Association of Biology Teachers annual conference (Baltimore, MA), co-led workshop "DEI Implementation Framework for College Classrooms."

2023 University of Florida Interface Teaching Conference (Gainesville, FL), led workshop "IDEAs in Action: From Course Planning to Evaluation."

2022 National Association of Biology Teachers annual conference (Indianapolis, IN), co-led workshop "Interactions in General Education Life Science Courses (IGELS): Tools, Tips, & Strategies to Enhance Undergraduate Biology for Non-majors."

2021 Life Discovery Conference (Estes Park, CO), led one workshop on educational activity for undergraduate STEM classroom.

2020 Association of American Colleges & Universities annual Conference on Global Learning (virtual), "Teaching about global pandemics during the COVID-19 crisis: Challenges and opportunities," workshop.

2020 Nominated as a Center for Teaching Excellence No Walls Teaching Champion. The No Walls Teaching initiative is designed to embrace instruction that extends beyond the traditional classroom. Presented two teaching workshops over the fall semester.

2018 Math for Planet Earth 2013+ Workshop on Global Change and Vector-borne Diseases: Mapping Emerging Infectious Diseases (Fairfax, VA). Invited talk: Modeling the Argasid tick life history.

2015-2018 Co-organized and participated in 12 Faculty Mentoring Networks (FMNs) through the Quantitative Undergraduate Biology Education and Synthesis (QUBES) project. FMNs are long-term professional development opportunities that bring together small groups of faculty to develop, adapt and/or implement quantitatively focused curriculum

materials into biology classrooms. I have worked with the following partner organizations to offer FMNs: HHMI BioInteractive, Data Nuggets, Teaching Issues and Experiments in Ecology, the Ecological Society of America, InTeGrate, and DryadLab, among others.

2017 Life Discovery Conference (Norman, OK), led one workshop on quantitative reasoning skills in the undergraduate biology classroom utilizing hands-on manipulative models.

2017 Organized an invited symposium at the International Symposium on Biomathematics and Ecology Education and Research conference called "Let's Do It Discretely! An Introduction to Discrete Difference Equation Models in the Life Sciences." Presented a talk (QUBES: a collaboration and professional development platform for quantitative biology education). Illinois State University.

2017 Co-organized week-long BioQUEST Summer Workshop, co-sponsored by BioQUEST, QUBES and Science Case Net. Presented an education workshop at the institute, "Data science in the undergraduate biology classroom using R" (co-presented with Drew LaMar) and a poster, "QUBES: Building a community to promote undergraduate quantitative biology education." Michigan State University.

2017 Society for the Study of Evolution annual conference (Portland, OR). Co-organized and facilitated two day-long workshops in partnership with the SSE Education Committee: Professional Development for Undergraduate Educators (PDUE) and Evo101.

2017 Co-organizer of 'Modeling Argasid Ticks' working group for WAMB (Women Advancing Mathematical Biology) Emphasis Workshop: Understanding Complex Biological Systems with Mathematics. Ohio State University, Mathematical Biological Institute.

2016 National Association of Biology Teachers annual conference (Denver, CO). Co-facilitated a 75 min science practices symposium "Design, implementation, and evaluation of faculty mentoring networks: a model for promoting faculty teaching scholarship."

2016 Association for College and University Biology Educators annual conference (Milwaukee, WI), 90 min workshop on quantitative reasoning skills in undergraduate classrooms using DryadLab curriculum modules.

2016 co-organized week-long National Academies Special Topics Summer Institute on Quantitative Biology, co-sponsored by BioQUEST, HHMI, Science Case Net and QUBES. Presented an education workshop at the institute, "Using the 'Analysis of Biological Data', Whitlock and Schluter" (co-presented with Drew LaMar) and a poster, "Science and math bookclub on QUBES Hub". North Carolina State University.

2016 Wisconsin Society for Science Teachers annual conference (La Crosse, WI), 50 min workshop on how to incorporate quantitative reasoning skills in the undergraduate and high school biology classroom.

2016 Life Discovery Conference (Baltimore, MD), led one workshop on quantitative reasoning skills in the undergraduate biology classroom. Co-led a workshop on using DryadLab curriculum materials in undergraduate biology courses. Co-organized and led a Faculty Mentoring Network kickoff meeting prior to the conference.

2015 National Association of Biology Teachers annual conference (Providence, RI), assisted with a workshop on using DryadLab curriculum materials in the undergraduate classroom. Co-organized and led two Faculty Mentoring Network kickoff meetings prior to the conference.

Workshops & Trainings (participant)

2025-2026 Selected to participate in the AI in Research in Teaching and Learning Faculty Learning Community. This year-long professional development group is supported by the AI2 Center and the Center for Teaching Excellence, bringing faculty together who are working on AI-supported research projects in the context of their teaching.

2022-2023 Selected to participate in the Quest 3 Faculty Learning Community. The year-long community introduced high-impact, experiential learning practices to prepare participants for the university-wide experiential learning graduation requirement.

2022 Invited member of the Equity and Inclusive Teaching working group. Part of the Improvement of General Education Life Science Courses project (NSF award #2126154). All working groups meeting. Providence, RI.

2020 Postponed indefinitely due to COVID-19. 21st Century Professional Development in Undergraduate Life Sciences Education: Supporting student success in the evolving academic and science workforce landscape. Linthicum, MD, invited participant.

2018 VectorBiTE RCN annual meeting and training workshop. Attended and participated in the pre-conference training workshop and the Tick Host Seeking Behavior working group. Monterey, CA.

2016 NIMBioS Investigative Workshop “Algebraic Mathematical Biology.” Knoxville, TN, invited participant.

2013 Joint 2013 Mathematical Biosciences Institute and the National Institute for Mathematical and Biological Synthesis Summer Graduate Workshop on Connecting Biological Data with Mathematical Models. Knoxville, TN, invited participant.

CONTRIBUTED TALKS AND POSTER PRESENTATIONS

2026 University of Florida Interface Teaching conference (Gainesville, FL), “Impact of Best-Practice Presets on AI-Generated Multiple-Choice Questions: Quiz-Adjusted Evidence” poster.

2025 Society for Experiential Education annual conference (Niagara Falls, ON, Canada), “Bridging academia and the real world: Implementing experiential education through faculty collaboration,” oral presentation.

2025 University of Florida Quest Days (Gainesville, FL), Lightning talk and panelist “Quest 2: Global Patterns of STIs – Hands on activities with sensitive topics.”

2023 Southeastern Division of the American Association of Geographers annual conference, virtual panelist for IDEAL Committee panel session.

2021 Southeastern Division of the American Association of Geographers annual conference, "IDEAL Geographer (Inclusive, Diverse, Equitable, Accessible and Learning) Committee," invited panelist.

2021 University of Florida Interface Teaching Conference (virtual), "Teaching and learning about pandemics during the COVID-19 crisis" oral presentation.

2020 Southeastern Division of the American Association of Geographers annual conference (virtual), "Recruitment of underrepresented students into geography," invited panelist.

2017 Ecological Society of America annual conference (Portland, OR), "Professional development in quantitative biology and its relationship to promoting scholarly teaching," poster.

2017 Society for the Study of Evolution annual conference (Portland, OR), "QUBES: Building a community to promote undergraduate quantitative biology education," poster.

2017 Augsburg Dean's Dinner (Augsburg College, Minneapolis, MN), "Finding your niche," invited keynote speaker.

2017 National Institute for Mathematical and Biological Synthesis INCLUDES conference (University of Tennessee Knoxville, Knoxville, TN), "Improving undergraduate quantitative biology education," poster.

2016 National Association of Biology Teachers annual conference, (Denver, CO). "Confronting the challenges of bringing research data into undergraduate classrooms using online faculty mentoring networks," and "Incubators for learning resources: a model to support the collaborative development, augmentation, and customization of OER," poster presentations.

2016 Association of College and University Biology Educators annual conference (Cardinal Stritch University, Milwaukee, WI), "Using online faculty mentoring networks to bring research data into undergraduate classrooms," poster.

2016 Evolution Seminar Series (University of Wisconsin, Madison, WI), "Evidence of cospeciation in a host-parasitoid system," oral presentation.

2016 Ecological Research as Education Network annual all members meeting (Columbus, OH), "The Quantitative Undergraduate Biology Education and Synthesis project," oral presentation and individual consultations.

2015 National Association of Biology Teachers annual professional development conference (Providence, RI), "QUBES: Building a community to promote undergraduate quantitative biology education," poster.

2015 MPE 2013+ Workshop on Education for the Planet Earth of Tomorrow (NIMBioS, Knoxville, TN), "Building a community to promote undergraduate quantitative biology education," invited participant, poster.

2014 Augsburg College STEM Colloquium (Minneapolis, MN), "Coevolution of Rhagoletis hosts and their associated parasitoid wasps," invited presentation.

2014 Integrated Biology Graduate Program Retreat (Bettendorf, IA), "Evolution data blitz," oral presentation.

2014 Ecological Society of America annual conference (Sacramento, CA), "Immigration and subtle trait variation can mitigate or reverse competitive outcomes for parasites attacking a novel host," oral presentation.

2013 Society for the Advancement of Chicanos and Native American Students (SACNAS) annual conference (San Antonio, TX), "Using preexisting trait variation to predict the outcome of parasitoid competition for a novel host," oral presentation.

2013 Ecological Society of America annual conference (Minneapolis, MN), "Using preexisting trait variation to predict the outcomes of parasitoid competition in novel habitats," poster.

2013 Society for Mathematical Biology annual conference (Tempe, AZ), "Using preexisting trait variation to predict the outcomes of parasitoid competition in novel habitats," poster.

2013 University of Iowa Jakobsen Graduate Research Conference (Iowa City, IA), "Using preexisting trait variation to predict the outcomes of parasitoid competition in novel habitats," poster.

2013 Midwest Ecology and Evolution Conference, University of Notre Dame (South Bend, IN), "Can preexisting trait variation predict the outcomes of parasitoid competition in novel habitats?" oral presentation.

2012 Ph.D. Student Seminar, University of Iowa (Iowa City, IA), "Can preexisting trait variation predict the outcomes of parasitoid competition in novel habitats?" oral presentation.

2012 University of Iowa Department of Biology 2012 Graduate Student Orientation (Iowa City, IA), "Predicting Outcomes of Parasitoid Competition in Novel Habitats: A Case Study with Competing Races of *Diachasma alloeum*," poster.

2012 Conference on Mathematical Ecology, University of Nebraska-Lincoln (Lincoln, NE), "Predicting Outcomes of Parasitoid Competition in Novel Habitats: A Case Study with Competing Races of *Diachasma alloeum*," poster.

2011 University of Iowa Department of Biology 2011 Graduate Student Orientation (Iowa City, IA), "Linked patterns of distribution and diversity in a landscape mosaic of urban development," poster.

2010-2015 Math-Bio Seminar, University of Iowa (Iowa City, IA), multiple oral presentations.

2010-2015 rEvolution Journal and Research Club, University of Iowa (Iowa City, IA), multiple oral presentations.

2010 University of Minnesota NorthStar STEM Symposium (Minneapolis, MN), "Quantitative flu dynamics," poster.

2010 Pi Mu Epsilon Regional Mathematics Conference, Saint John's University (Collegeville, MN), "Quantitative flu dynamics," oral presentation.

2010 Augsburg College Zyzzogeton (Minneapolis, MN), "Quantitative flu dynamics," poster.

SERVICE

National Service

Advisory board member for Center for Analysis and Prediction of Pandemic Expansion (APPEX). NSF-PIPP #2412115.

Advisory board member for the Improvement of General Education Life Science courses (IGELS) project 2022-2025.

Member of American Association of Geographers professional society's Justice, Equity, Diversity, and Inclusion's advocacy sub-committee. 2022-2023. Appointed for second term 2025-2027.

Member of the Southeastern Division of the American Association of Geographers professional society's Inclusion, Diversity, Equity and Accessibility in Learning committee 2020-2023. Invited for second term (2025-2028).

Co-chair of the Huxley award for evolution education for the Society of the Study of Evolution's education committee 2017-2021.

Member of Society for the Study of Evolution's education committee 2017-2021.

College/University Service

Selected as College Teaching Liaison for CLAS to report to the University of Florida faculty regarding best practices for teaching. 2025-current.

Member of search & hiring committee for UF Online advisor through the College of Liberal Arts and Sciences Academic Advising Center. 2024.

Department Service

Associate Chair of Department of Geography at the University of Florida. This role has responsibility for course scheduling, curriculum review, graduate student teaching assignments, and coordinating the summer schedule with the College. 2024-current

Developed and coordinate the Geography Ambassador program since 2021. This program recruits undergraduate geography majors to attend recruitment events throughout the academic year. Listed below by academic year and total students.

21-22 (1), 22-23 (2), 23-24 (4), 24-25 (4), 25-26 (4), 26-27 (3).

Chair of the Student Services Committee (previously the Diversity, Equity, and Inclusion committee) in the Department of Geography academic year 2021-2022. Member of committee since 2020.

Experiential Learning Coordinator. Department representative, University of Florida annually since the 2019-2020 academic year.

Other Service

Invited panelist for the University of Iowa's new graduate student orientation. August 2014 and 2015.

University of Iowa Graduate Student Senate: President 2014-2015; elected, full voting member of Graduate Council 2013-2015; biology department representative, general member 2010-2011; executive council member 2011 – 2015; Co-chair Graduate Student Senate travel funds committee 2011 –2014.

Panelist during University of Iowa graduate recruitment weekend, February 2011 and 2012 (Biology department, Biosciences program).

Iowa City Darwin Day planning committee member 2010 – 2015.

Panelist and mentor during University of Iowa McNair Summer Program. Summer 2011 – 2015.

AWARDS AND HONORS

2024 Nominated and selected as recipient of University of Florida's Office of Graduate Student Support and Engagement's "Graduate Education Champion Award"

2023 Nominated and selected as recipient of American Association of Geographers "Harm de Blij Award in Undergraduate Teaching." This is a once-per-career award.

2022 Finalist for the University of Florida's Career Connections Center "Career Influencer Award" in the faculty category.

2022 Nominated for the University of Florida's Alumni Association "LeaDErshIp Award" in the university community category.

2021 Nominated and selected for University of Florida College of Liberal Arts and Sciences "Teacher of the Year" award.

PROFESSIONAL MEMBERSHIPS

Society for Experiential Education (member since 2025).

American Association of Geographers (member since 2020).

Florida Society of Geographers (member since 2020).

National Association of Biology Teachers (member since 2015).