

Marta S. Shocket

Lecturer in Ecology

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Education & Training

Postdoctoral Training – Dept. of Ecology & Evolutionary Biology University of California Los Angeles (Los Angeles, CA) <i>Advisor:</i> Van Savage (thermal biology, biophysics, mathematical biology)	2019–2021
Postdoctoral Training – Dept. of Biology Stanford University (Stanford, CA) <i>Advisor:</i> Erin Mordecai (disease ecology, mosquito-borne disease)	2016–2019
Postdoctoral Teaching Certificate Stanford University (Stanford, CA)	2019
Ph.D. in Ecology, Evolution & Behavior Indiana University (Bloomington, IN) Specialization in Ecology/Population Biology; Minor in Genetics <i>Advisor:</i> Spencer Hall (disease ecology, aquatic ecology)	2016
B.A. in Biology and Latin American Studies Bard College (Annandale-on-Hudson, NY) <i>Advisor:</i> Felicia Keesing (community ecology, tick-borne disease)	2009

Appointments

Lecturer in Ecology, Lancaster University	2023–present
Affiliated Researcher, QDEC Lab, University of Florida	2021–2023
Curriculum Developer, Citizen Science, Bard College	2021–2023
Adjunct Faculty, Citizen Science, Bard College	2019–2023

Fellowships & Awards

The American Naturalist Student Paper Award (Shocket et al. 2018 <i>Am Nat</i>)	2018
Brackenridge Fellowship (\$2,000 for field work), Indiana University	2014
Sears Crowell Scholarship (\$2,000 for study at a field station), Indiana University	2011, 2012
NSF Graduate Research Fellowship Program (GRFP) 3-year Fellowship	2011
Indiana University Biology Department Recruitment Fellowship	2010
Seth Goldfine Memorial Scholarship for academic & athletic leadership, Bard College	2009
Michos Award for commitment to science & community participation, Bard College	2008
John Bard Award, Division of Mathematics & Natural Sciences, Bard College	2007
Distinguished Science Scholar, 4-year full-tuition scholarship, Bard College	2005

Journal Articles (*undergraduate student mentee, **graduate student mentee)

- Dennington, N., M. Grossman, F. Ware-Gilmore, J. Teeple, L. Johnson, **M. Shocket**, Elizabeth A. McGraw, M. Thomas. (2024) Phenotypic adaptation to temperature in the mosquito vector, *Aedes aegypti*. *Global Change Biology*. 30(1): e17041.
- Hector, T., **M. Shocket**, C. Sgrò, and M. Hall. (2024) Acclimation to warmer temperatures can protect host populations from both further heat stress and the potential invasion of pathogens. *Global Change Biology*. 30(6): e17341.
- Pawar, S., P. Huxley, T. Smallwood, M. Nesbit, A. Chan, **M. Shocket**, L. Johnson, G. Dimitrios, and L. Cator (2024). Variation in temperature of peak trait performance constrains adaptation of arthropod populations to climatic warming. *Nature Ecology & Evolution*. 8: 500-510.
- Penczykowski, R., M. Fearon, J. Hite, **Shocket, M.**, S. Hall, and M. Duffy. (2024) Pathways linking nutrient enrichment, habitat structure, and parasitism to host–resource interactions. *Oecologia*. 204: 439-449.
- Shocket, M.** (2023) Fluctuating temperatures have a surprising effect on disease transmission. *PLOS Biology*. 21(9): e3002288.
- Penczykowski, R., S. Hall, **M. Shocket**, J. Ochs, B. Lemanski, H. Sundar, and M. Duffy. (2022) Virulent disease epidemics can increase host density by depressing foraging of hosts. *American Naturalist*. 199(1): 75-90.
- Walsman, J., A. Strauss, J. Hite, **M. Shocket**, and S. Hall. (2022) A paradox of parasite resistance: disease-driven trophic cascades increase the cost of resistance, selecting for lower resistance with parasites than without them. *Evolutionary Ecology*. 37: 53-74.
- Athni, T.*, **M. Shocket**, L. Couper, N. Nova, I. Caldwell, J. Caldwell, J. Childress, M. Childs, G. De Leo, D. Kirk, A. MacDonald, K. Olivarius, D. Pickel, S. Roberts, O. Winkour, H. Young, J. Cheng, E. Grant, P. Kurzner, S. Kyaw, B. Lin, R. López, D. Massihpour, E. Olsen, M. Roache, A. Ruiz, E. Schultz, M. Shafat, R. Spencer, N. Bharti, and E. Mordecai. (2021) The influence of vector-borne disease on human history: socio-ecological mechanisms. *Ecology Letters*. 24(4): 829-846.
- Couper, L., J. Farner, J. Caldwell, M. Childs, M. Harris, D. Kirk, N. Nova, **M. Shocket**, E. Skinner, L. Uricchio, M. Exposito-Alonso, and E. Mordecai. (2021) How will mosquitoes adapt to climate warming? *eLife*. 10: e69630.
- Keyel, A., M. Gorris, I. Rochlin, J. Uelmen, L. Chaves, G. Hamer, I. Moise, **M. Shocket**, A. Kilpatrick, N. DeFelice, J. Davis, E. Little, P. Irwin, A. Tyre, K. Helm-Smith, C. Fredregill, O. Timm, K. Holcomb, M. Wimberly, M. Ward, C. Barker, and R. Smith. (2021) A proposed framework for the development and qualitative evaluation of West Nile virus models and their application to local public health decision-making. *PLOS Neglected Tropical Diseases*. 15(9): e0009653.
- Shocket, M.**, A. Verwillow*, M. Numazu*, H. Slamani, J. Cohen, F. El Moustaid, J. Rohr, L. Johnson, and E. Mordecai. (2020) Transmission of West Nile and five other temperate mosquito-borne viruses peaks at temperatures between 23°C and 26°C. *eLife*. 9: e58511.

- Nova, N., E. Deyle, **M. Shocket**, A. MacDonald, M. Childs, M. Rypdal, G. Sugihara, and E. Mordecai. (2020) Susceptible host availability modulates climate effects on dengue dynamics. *Ecology Letters*. 24(3): 415-425.
- Shocket, M.**, A. Magnante*, M. Duffy, C. Cáceres, and S. Hall. (2019) Can hot temperatures limit disease transmission? A test of mechanisms in a zooplankton-fungus system. *Functional Ecology*. 33(10): 2017-2029.
- Altassan, K.***, C. Morin, **M. Shocket**, K. Ebi, and J. Hess (2019). Dengue fever in Saudi Arabia: A review of environmental and population factors impacting emergence and spread. *Travel Med Infect Dis*. 30: 46-53.
- Miazgowicz, K., **M. Shocket**, S. Ryan, O. Villena, R. Hall, H. Owen, T. Adanlawo, K. Balaji, L. Johnson, E. Mordecai, and C. Murdock. (2020) Age influences the thermal suitability of *Plasmodium falciparum* transmission in the Asian malaria vector *Anopheles stephensi*. *Proc. R. Soc. B*. 287(1931): 20201093.
- Mordecai, E., J. Caldwell, M. Grossman, C. Lippi, L. Johnson, M. Niera, J. Rohr, S. Ryan, V. Savage, **M. Shocket**, R. Sippi, A. Stewart Ibarra, M. Thomas, and O. Villena. (2019) Thermal biology of mosquito-borne disease. (Cover article) *Ecology Letters*. 22(10): 1690-1708.
- Strauss, A., J. Hite, D. Civitello, **M. Shocket**, C. Cáceres, and S. Hall. (2019) Genotypic variation in parasite avoidance behaviour and other mechanistic, nonlinear components of transmission. *Proc. R. Soc. B*. 286(1915): 20192164.
- Shocket, M.**, S. Ryan, and E. Mordecai. (2018) Temperature explains broad patterns of Ross River virus transmission. *eLife*. 7: e37762.
- Shocket, M.**, D. Vergara, A. Sickbert*, J. Walsman, A. Strauss, J. Hite, M. Duffy, C. Cáceres, and S. Hall. (2018) Parasite rearing and infection temperatures jointly influence disease transmission and shape seasonality of epidemics. *Ecology*. 99(9): 1975-87.
- Shocket, M.**, A. Strauss, J. Hite, M. Šljivar, D. Civitello, M. Duffy, C. Cáceres, and S. Hall. (2018) Temperature drives epidemics in a zooplankton-fungus disease system: a trait-driven approach points to transmission via host foraging. *American Naturalist*. 191(4): 435-451. **Winner of The American Naturalist 2018 Student Paper Award.**
- Hite, J., R. Penczykowski, **M. Shocket**, K. Griebel, A. Strauss, M. Duffy, C. Cáceres, and S. Hall. (2017) Allocation, not male resistance, increases male frequency during epidemics: a case study in facultatively sexual hosts. *Ecology*. 98(11): 2773-2783.
- Mordecai, E., J. Cohen, M. Evans, P. Gudapati, L. Johnson, K. Miazgowicz, C. Murdock, J. Rohr, S. Ryan, V. Savage, **M. Shocket**, A. Stewart-Ibarra, M. Thomas, and D. Weikel. (2017) Detecting the impact of temperature on transmission of Zika, dengue and chikungunya using mechanistic models. *PLOS Neglected Tropical Diseases*. 11(4): e0005568.
- Strauss, A., J. Hite, **M. Shocket**, C. Cáceres, M. Duffy, and S. Hall. (2017) Rapid evolution rescues hosts from competition and disease and—despite a dilution effect—increases the density of infected hosts. *Proc. R. Soc. B*. 284(1868): 20171970.
- Hite, J., R. Penczykowski, **M. Shocket**, A. Strauss, P. Orlando, M. Duffy, C. Cáceres, and S. Hall. (2016) Parasites destabilize host populations by shifting stage-structured interactions. *Ecology*. 97(2): 439-449.

- Strauss, A., **M. Shocket**, J. Hite, R. Penczykowski, M. Duffy, C. Cáceres, and S. Hall. (2016) Habitat, predators, and hosts regulate disease in *Daphnia* through direct and indirect pathways. *Ecological Monographs*. 86(4): 393-411.
- Civitello, D., R. Penczykowski, A. Smith, **M. Shocket**, M. Duffy, and S. Hall. (2015) Resources, key traits, and the size of fungal epidemics in *Daphnia* populations. *Journal of Animal Ecology*. 84(4): 1010-1017.

Manuscripts in Progress

- In review*. Dennington, N., M. Grossman, J. Teeple, L. Johnson, **M. Shocket**, Elizabeth A. McGraw, M. Thomas. Local adaptation of the mosquito vector, *Aedes aegypti*, and implications for predicting the effects of temperature and climate change on dengue transmission.
- In review*. **Shocket, M.**, J. Bernhardt, K. Miazgowicz, A. Orakzai, V. Savage, R. Hall, and C. Murdock. Rate summation fails to predict the thermal suitability of human malaria transmission under field relevant diurnally fluctuating conditions.
- In prep*. Chelbi, I., E. Zhioua, **M. Shocket**, and G. Hamilton. An oviposition pheromone, hexadecanoic acid, found on the eggs of *Phlebotomus papatasi* from Sidi Bouzid, Tunisia attracts gravid females and stimulates oviposition.

Book Chapters

- In press*. Kirk, D.[‡], E. Skinner[‡], **M. Shocket**, L. Couper, N. Nova, T. Athni, J. Pourtois, J. Farner, M. Childs, M. Harris, S. Nyathi, and E. Mordecai. Chapter 4: Climate change and infectious Disease. *Ecology of Infectious Disease*. Ed: G. Suzán, A. Aguirre, and J. Mills. Oxford University Press. ([‡]equal authorship contributions)
- Shocket, M.**, J. Caldwell, P. Huxley, C. Lippi, F. Windram, and A. Keyel. (2024) Chapter 10: Modelling the effects of climate and climate change on transmission of vector-borne disease. *Planetary Health Approaches to Understand and Control Vector-borne Diseases*. Ed: K. Fornace, J. Conn, M. Mureb Sallum, L. Moereira Chaves, and J. Logan. Brill Academic Publishers.
- Shocket, M.**, C. Anderson, J. Caldwell, M. Childs, L. Couper, S. Han, M. Harris, M. Howard, M. Kain, A. McDonald, N. Nova, and E. Mordecai. (2021) Chapter 6: Environmental drivers of vector-borne diseases. *Population Biology of Vector-borne Diseases*. Ed: J. Drake. Oxford University Press.

Selected Conference Presentations

- International Society for Evolution, Medicine & Public Health Annual Meeting. 2024. Durham, UK. Invited Talk in Organized Symposium: “Exploring zoonotic diseases at the nexus of One Health and Evolutionary Medicine”: “How will climate change and mosquito evolution impact future disease transmission?”

- 31st Annual European Congress of Clinical Microbiology and Infectious Diseases. 2021. Online.
Invited Talk in Organized Session: “More tropical diseases due to climate change?”: “Climate change, variability, and spatial-temporal distribution of arboviruses”
- Ecological Society of America 105th (Virtual) Annual Meeting. 2020. Online.
Talk: “Informing temperature-dependent models of mosquito-borne disease with the metabolic theory of ecology”
- UTMB–Nature Conference: “Vector-borne Infectious Diseases”. 2020. Galveston, TX.
Invited Talk: “Thermal biology of mosquito-borne disease.” CANCELLED FOR COVID-19.
- Entomological Society of America Annual Meeting. 2019. St. Louis, MO.
Invited Talk in Organized Symposium “Space, time, and disease: vectors at multiple spatial and temporal scales”: “Temperature drives patterns of mosquito-borne disease: transmission models and empirical evidence across 16 systems.”
- Ecological Society of America 104th Annual Meeting. 2019. Louisville, KY.
Invited Talk in Organized Oral Session “Ecological Levers for Health”: “Temperature drives broad patterns of mosquito-borne pathogen transmission.”
- Society for Mathematical Biology Annual Meeting. 2019. Montreal, QC, Canada.
Talk: “Comparing temperature-dependent transmission models for 16 mosquito-borne diseases.”
- Bay Area Ecology and Evolution of Infectious Disease 1st Annual Meeting. 2019. Stanford, CA.
Talk: “Temperature explains broad patterns of transmission of mosquito-borne disease.”
- Mosquito Control Association of Australia. 2018. Tweed Heads, Queensland, Australia.
Talk: “Temperature explains broad patterns of Ross River virus transmission.”
Talk: “Your data wanted! Two public databases of global vector abundances.”
- Ecology and Evolution of Infectious Diseases 16th Annual Meeting. 2018. Glasgow, Scotland
Poster: “Comparing temperature-based R_0 models across vector-borne diseases and a new model for Ross River virus.”
- Ecology and Evolution of Infectious Disease 15th Annual Meeting. 2017. UC Santa Barbara, CA
Talk: “Temperature drives transmission in a *Daphnia*-fungus system via host foraging and parasite infectivity.”
- Impact of Environmental Changes on Infectious Diseases 2017. International Center for Theoretical Physics, Trieste, Italy
Poster: “Comparing temperature-based R_0 models across vector-borne diseases and a new model for Ross River virus.”
- American Mosquito Control Association 83rd Annual Meeting. 2017. San Diego, CA
Talk: “Connecting vector abundance with vector ecology: VectorBiTE”
- Unifying Biological Principles across Disciplines (Am. Society of Naturalists). 2016. Asilomar, CA
Talk: “Past and current temperature regulate transmission in a zooplankton-fungus disease system.”
- Ecological Society of America, 100th Annual Meeting. 2015. Baltimore, MD
Talk: “Temperature & resource quality regulate seasonal epidemics in a *Daphnia*-fungal disease system.”

21st Century Naturalists (American Society of Naturalists). 2014. Asilomar, CA
Midwest Ecology and Evolution Conference. 2014. University of Dayton, OH.
Talk: “Temperature & resource quality regulate seasonal epidemics in a *Daphnia*-fungal disease system.”

Invited Seminars

University of Exeter, 2025
Trinity College, Ireland, 2024
Lancaster University, UK, Lancaster Environment Centre, 2024
Imperial College London (Silwood Park), UK, Ecology and Evolution Seminar, 2024
University of Delaware, DE, USA, Department of Entomology & Wildlife, 2023
University of Aberdeen, UK, School of Biological Sciences, 2022
University of Stirling, UK, Biological and Environmental Sciences, 2022
Lancaster University, UK, Lancaster Environment Centre, 2022
University of Georgia, GA, USA, Department of Ecology, 2022
Tufts University, MA, USA, Department of Biology, 2022
Skidmore College, NY, USA, Department of Biology, 2022
University of Wisconsin, WI, USA, Parasitology & Vector Biology Training Program, 2021
Bard College, NY, USA, Biology Department, 2021
University of Massachusetts Boston, MA, USA, Biology Department, 2021
Imperial College London (Silwood Park), UK, Ecology and Evolution Seminar, 2020
University of California Berkeley, CA, USA, EEID Seminar, 2020
University of Georgia, GA, USA, Department of Ecology, 2020
San Francisco State University, CA, USA, Department of Biology, 2019
Santa Clara University, CA, USA, Biology Department, 2018
University of Melbourne, Vic, Australia, School of BioSciences, 2018
University of Tasmania, Tas, Australia, Department of Biology, 2018
Griffith University, Qld, Australia, School of Environment, 2018
University of San Francisco, CA, USA, Department of Biology, 2017

Working Groups

VectorBiTE Research Coordination Network: Working Group on Temperature Variation & Rate Summation (2016–2019), Working Group on Ecoinformatic Databases (2017–2019)
MRC Centre for Global Infectious Disease Analysis, Imperial College of London: Working Group on Climate Seasonality and Transmission of Arboviruses (2019)

Pedagogy Training, Teaching, & Mentoring

Pedagogy Training

Postdoctoral Teaching Certificate (70 hours of training), Stanford University, 2017–2019
Graduate Course: Z620 Mentored Teaching, (1.5 credit hours) Indiana University, Spring 2013

Lancaster University Modules

LEC 143: Aquatic Ecology (2024 – present), convener

LEC 166: Eden Project Field Course (2024 – present), co-instructor

LEC 243: Experimental Design and Analysis (2024 – present), co-instructor

Previous Teaching Positions

Citizen Science Program, Bard College, faculty (2-week intensive winter intercession course on science literacy, required for all first-year students): 2020, 2021, 2022, and 2023

Citizen Science, Bard Microcollege Brooklyn/Harlem, faculty (2-week intensive summer course on science literacy, students are from excluded communities): 2022

Writing Knowledge Program, Bard College, faculty (2-week intensive summer course on college writing and science literacy, required for all transfer students): 2022

VectorBiTE Statistics Training Workshop, teaching assistant: 2018 and 2019

Climate Change and Vector-borne Disease (Bio 2N), Stanford University (with faculty Prof. Erin Mordecai), course co-designer: Spring 2017; teaching assistant: Spring 2017 and 2019

Introductory Biology Lab (L113), Indiana University; lead associate instructor (each week I designed & delivered a 50 min lecture and ran the 3-hour lab for my 25-student section): Spring 2011, Fall 2011, and Spring 2015

Guest Lectures

Disease Ecology, “Climate change and mosquito-borne diseases,” Tulane University, invited by Dr. Hannah Frank, Spring 2022

Globally Emerging Zoonotic Diseases, “Climate change and vector-borne diseases,” Stanford University, invited by Dr. Stephen Felt, Spring 2020

Global Change & Health Seminar (for Masters of Public Health students), “Temperature and mosquito-borne disease,” School of public Health, University of California Berkeley, invited by Dr. Justin Remais, Winter 2019

Introductory Ecology, “Disease Ecology,” Stanford University, invited by Dr. Erin Mordecai, Fall 2016

Mentoring

- **10 undergraduate students, 3 graduate students (9 women, 7 from underrepresented backgrounds)**

- **4 undergraduate mentees, 1 graduate mentee published as co-authors**

PhD Rotation Project, UCLA – *Mentee*: Christine Craib (Winter–Spring 2021)

Undergraduate Individual Study Credit, UCLA – *Mentees*: Cymfenee Dean-Phifer (Summer 2020–Spring 2021), Samantha Chung (Fall 2020–Spring 2021)

Manuscript writing and revision, Stanford University – *Mentee*: Tejas Athni (2019–2020)

PhD Rotation Project, Stanford University – *Mentee*: Sindiso Nyathi (Winter–Spring 2019)

Manuscript writing and revision, University of Washington – *Mentee*: Kholood Altassan (2018)

Biology Summer Undergraduate Research Program, Stanford University – *Mentees*: Sophia Stefan (Summer 2018) and Anna Verwillow (Summer 2017)

Undergraduate Individual Study Credit, Stanford University – *Mentees*: Sophia Stefan (Fall 2018), Anna Verwillow (Fall 2017–Spring 2018), Mailo Numazu (Fall 2017–Spring 2018), and David Mariano (Winter 2017)

Undergraduate Individual Study Credit, Indiana University – *Mentees*: Alexandra Magnante (Fall 2015–Spring 2016), Andrew Sickbert (Fall 2015), and Marisa Paredo (Summer 2013)

Press Releases, Interviews, & Popular Press Publications

How climate change is affecting the spread of mosquito-borne illnesses by Alejandra Borunda. *All Things Considered*, NPR (National Public Radio), Sept. 9, 2024.

<https://www.npr.org/2024/09/09/nx-s1-5095192/how-climate-change-is-affecting-the-spread-of-mosquito-borne-illnesses> (Interview)

Why Climate Change May Bring More West Nile Virus To The U.S. *Science Friday*, NPR (National Public Radio), March 25, 2022.

<https://www.sciencefriday.com/segments/climate-change-west-nile-virus/> (Interview)

West Nile Virus and Climate Change: It's Complicated. *The Scientist*. Sept. 28, 2021.

<https://www.the-scientist.com/news-opinion/west-nile-virus-and-climate-change-it-s-complicated-69246> (Interview/consultation)

Stanford course explores how diseases have shaped human history. *Stanford News*. Jan. 27, 2021.

<https://news.stanford.edu/2021/01/27/diseases-history-intertwined/> (Press release)

Viral Weather: How COVID-19 modelling relates to climate change. The Weather Network (Canadian TV Network). May 9, 2020.

<https://www.theweathernetwork.com/ca/news/article/viral-weather-future-modelling-and-having-a-climate-change-plan>; [YouTube Link](#) (Video interview for television broadcast, YouTube channel, and podcast)

SciLine Interview with American Association for the Advancement of Science (AAAS) on COVID seasonality. (Prepared Q&A for journalists, used for quotes in articles):

- What we know about seasonality and future waves of coronavirus by Chia-Yi Hou. [The Hill](#). April 24, 2020.
- 3 potential futures for COVID-19: Recurring small outbreaks, a monster wave, or a persistent crisis by Sharon Begley. [STAT](#). May 1, 2020. Republished on [Boston.com](#) on May 5, 2020. Referenced in a Croatian language article on [24sata.hr](#) on May 7, 2020.

Is climate change affecting the spread of disease? *Honolulu Civil Beat*. March 23, 2020.

<https://www.civilbeat.org/2020/03/is-climate-change-affecting-the-spread-of-disease/> (Podcast interview)

Episode 51: Transmissible tumors and LSD receptors. eLife Podcast by Naked Scientists. Nov. 14, 2018.

<https://www.thenakedscientists.com/articles/interviews/climate-change-and-disease-spread> (Podcast interview)

Temperature model predicts regional and seasonal virus transmission by mosquitoes. *EurekAlert!* Aug. 28, 2018.

https://www.eurekalert.org/pub_releases/2018-08/e-tmp082818.php (Press release)

IU study: Key factor may be missing from models that predict disease outbreaks from climate change. *News at IU Bloomington*. Aug. 16, 2018.

<https://news.iu.edu/stories/2018/08/iub/releases/16-key-factor-missing-models-predict-disease-outbreaks-climate-change.html> (Press release)

- U.S. Faces a Rise in Mosquito ‘Disease Danger Days.’ *Climate Central*. Aug. 8, 2018.
<http://www.climatecentral.org/news/us-faces-a-rise-in-mosquito-disease-danger-days-21903>
(Interview/consultation)
- West Nile Crippling El Pasoans, Rising Temperatures Play Role. *Climate Central*. Aug. 8, 2018.
<http://www.climatecentral.org/news/west-nile-el-paso-rising-temperatures-play-role-21905>
(Interview/consultation)
- Shocket, M.** Lending a hand: Citizens aid in scientific discoveries. *The Ryder*. July 2013.
Bloomington, IN. (Article for local monthly arts/alternative newspaper)
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Professional Service & Outreach

Peer Reviews: 56 since 2015

Journals: *American Naturalist*, *Bulletin of Entomological Research*, *Ecological Modelling*, *Ecology*, *eLife*, *Emerging Infectious Diseases*, *Environmental Research Letters*, *Frontiers in Ecology and Evolution*, *Functional Ecology*, *J. of Animal Ecology*, *J. of Applied Ecology*, *J. of Medical Entomology*, *Lancet Planetary Health*, *Nature Microbiology*, *Oecologia*, *Oikos*, *PLoS Computational Biology*, *PLoS Medicine*, *PLoS ONE*, *Proceedings of the Royal Society B*, *Royal Society Open Science*, *Trends in Parasitology*, and *Viruses*.

Lancaster University Service

Disability and Inclusion Representative (2024 – present)

Ecology & Conservation Admissions (2024 – present)

Conference & Previous University Service

Creator & Chair of Organizing Committee for 1st Bay Area Ecology & Evolution of Infectious Disease Meeting (BAEEID, 2019)

Co-chair, Organizing Committee for Midwest Ecology and Evolution Conference (MEEC, 2015)

Organizer and participant of Science Outreach Panel, Midwest Ecology & Evolution Conference (MEEC, 2015)

Chair of Transportation and Greetings Committee for Graduate Recruitment Weekend (2011)

Public Outreach

Bugs, Birds, and Beasts Day at Imperial College London, Silwood Campus (July 26, 2022)

Stanford Prison Education Project, created and delivered lesson on ‘Evidence and Error in Science’ for Myths and Misconceptions course in Redwood City Jail (Fall 2018, Winter 2019)

Nightlife: Migratory Animals, California Academy of Sciences (November 8, 2018)

Nightlife: Women in Science, California Academy of Sciences (March 29, 2018)

Stanford STAR (Science and Teaching through Art) Program; completed 3 training sessions, created and presented poster at 2 public events for high school students (Fall 2016)

Public talk on Climate Change & Infectious Disease, Bloomington Science Café (November 2, 2016)

Co-organizer for Bloomington Science Café (2012–2016)

Public talk on Citizen Science, Bloomington Science Café (July 17, 2013)