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## JOCELYN E. BEHM

Center for Biodiversity  
Department of Biology

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### EDUCATION

- 2012 Ph.D. Department of Zoology, University of Wisconsin-Madison, USA,  
*Influence of land use change on amphibian biodiversity in Southwest China*
- 2006 M.S. Department of Zoology, University of Wisconsin-Madison, USA  
*Loss of ecological separation in endangered threespine stickleback species pair collapse*
- 2001 B.S. in Environmental Science *Suma Cum Laude*, Drexel University, Philadelphia, USA

### PROFESSIONAL HISTORY

- 2017-Present Assistant Professor, Temple University, Philadelphia, PA, USA
- 2015-2017 Adjunct Professor, Temple University, Philadelphia, PA, USA
- 2015 Adjunct Professor, Ursinus College, Collegeville, PA, USA
- 2012-2017 Postdoctoral Fellow, Department of Ecological Science, Vrije Universiteit, NL
- 2007-2012 PhD Student, Department of Zoology, University of Wisconsin-Madison, USA
- 2004-2009 Graduate Teaching Assistant, University of Wisconsin-Madison, USA
- 2003-2006 MS Student, Department of Zoology, University of Wisconsin-Madison, USA

### PUBLICATIONS

[Google Scholar](#): *h-index=19; Publications since starting at Temple = 44 (36 published)*

*\*indicates graduate student mentee author (9 papers)*

*•indicates undergraduate student mentee author (15 papers; 8 papers as lead author)*

#### Submitted/Preprints

50. Behm, J.E., J. Ellers, W.A.M. Jesse, T.J. Tran, M.R. Helmus. 2024. Predicting and quantifying coexistence outcomes between resident and invading species using trait and abundance data. *bioRxiv*. 2023.01.12.523647. *In review at Ecology*
49. Phillips, P.M.\* and J.E. Behm. 2024 Seasonality and vegetation structure drive mammalian diel activity and lingering behaviors along an urban-rural gradient. *In review at Journal of Animal Ecology*
48. Carlson, A.K.\* and J.E. Behm. 2024. Non-trapping mammal hair collection provides opportunities for research and outreach in urban areas. *In review at Journal of Urban Ecology*
47. Phillips, P. M.\*, Fahey, J. • and J. E. Behm. 2024. An investigation of invasive *Haemaphysalis longicornis* (Ixodida:Ixodidae) habitat and pathogen overlap with resident tick species in Southeastern Pennsylvania, USA. *In review at Journal of Medical Entomology*
46. Jia, Z., Mengy, Y., Wang, W., Behm, J. E., Cai, F., Mishra, S., Xia, S., Liu, S. and X. Yang. 2024. Differential responses of termite gut bacterial and fungal community to tropical forest conversion. *In review at Journal of Animal Ecology*
45. Meng, Y. Behm, J.E., and S. Landrein. 2024. Differential responses of bacteria and fungi in the rhizosphere and endosphere of aerial roots of *Cissus verticillata*. *In review at Plant Diversity*

44. Busala, G. M. •, Phillips, P. M.\* and **J. E. Behm**. 2024. Variation in forest patch habitat quality for white-footed mice driven by invasive plants in an urbanizing landscape. *In revision at Ecosphere*.
43. Gleditsch, J., **J.E. Behm**, M.R. Helmus. 2023. The great acceleration of island saturation by species introductions in the Anthropocene has altered species-area relationships. *bioRxiv*. 2023.01.10.523426.

### Published Articles

42. Swartz, T.M.\* , Blaney, A. R. •, and **J. E. Behm**. 2024. Crumb bums? Context dependence and ecosystem service supply by common urban animals. *Ecosphere – In Press*
41. Jesse, W.A.M., J. Ellers, **J.E. Behm**, G.C. Costa, S.B. Hedges, M.R. Helmus. 2024. Elevated human footprint on islands promotes both introduction and extinction probability of insular reptiles at opposite ends of geographic, evolutionary and ecological continua. *Ecography – In Press*
40. Phillips, P. M.\* , Langhans, K. A., Surget-Groba, Y., Jesse, W.A.M., Helmus, M. R., and **J. E. Behm**. *In Press*. Dispersal restriction and facilitation in species with differing tolerance to development: A landscape genetics study of native and introduced lizards. *Diversity and Distributions*
39. Busala, G. M. •, Helmus, M.R. and **J. E. Behm**. *In Press*. Non-native herpetofauna of Aruba island (Caribbean): patterns and insights. *Biological Invasions*.
38. Belouard, N. and **J.E. Behm**. 2023. Multiple paternity in the invasive spotted lanternfly (Hemiptera:Fulgoridae). *Environmental Entomology*. 52(5): 949-955
37. Swartz, T.M.\* , J.M. Gleditsch, and **J.E. Behm**. 2023. A functional trait approach reveals the effects of landscape context on ecosystem services provided by urban birds. *Landscape and Urban Planning*. 234: 104724
36. Belouard, N. and **J.E. Behm**. 2023. Spotted! Computer-aided individual photo-identification allows for mark-recapture of invasive spotted lanternfly (*Lycorma delicatula*). *Frontiers in Insect Science*. 3, 9.
35. Ramirez, V.A. •, De Bona, S., Helmus, M.R., and **J.E. Behm**. 2023. Multiscale assessment of oviposition habitat associations and implications for management in the spotted lanternfly (*Lycorma delicatula*), an emerging invasive pest. *Journal of Applied Ecology*. 60(3): 411-420.
34. **Behm, J.E.**, Bélouard, N., Gleditsch, J.M., Phillips, P.M.\* , and Swartz, T.M.\* . 2022. Trait-based approaches for understanding how biodiversity generates sustainable benefits in urban vegetated green infrastructure. *Current Opinion in Environmental Sustainability*. 57, 101204.
33. Liu, S, Shangwen, X., Wu, D., **Behm, J.E.**, Meng, Y., Yuan, H., Wen, P., Hughes, A.C., and Yang, X. 2022. Understanding global and regional patterns of termite diversity and regional functional traits. *iScience*. 2022.105538
32. Gleditsch, J.M., **Behm, J.E.**, Ellers, J., Jesse, W.A.M., and Helmus, M.R. 2022. Contemporizing island biogeographic theory with anthropogenic drivers of species richness. *Global Ecology and Biogeography*. 32(2): 233-249
31. Liu, S, Meng, Y, **Behm, J. E.**, Zhang, W. and Fu, S. 2022. Nitrogen addition enhances the bottom-up effects in the detrital food web. *Global Ecology and Conservation*. 39:e02299.
30. Huron, N. A., **Behm, J. E.**, and Helmus, M.R. 2022. Paninvasion severity assessment of a US grape pest to disrupt the global wine market. *Communications Biology*. 5(1): 1-11
29. Gutierrez-Velez, V.H., Gilbert, M.R., Kinsey, D. and **J.E. Behm**. 2022. Beyond the ‘urban’ and the ‘rural’: conceptualizing a new generation of infrastructure systems to enable rural–urban sustainability. *Current Opinion in Environmental Sustainability* 56, 101177
28. Liu, S., Meng, Y., **Behm, J.E.**, Zhang, W., and Fu, S. 2022. Canopy nitrogen addition affects ground-dwelling spider assemblages and trophic position. *Insect Conservation and Diversity*. 1– 12.
27. Turner, D.B. •, **Behm, J.E.**, Phillips, P.M.\* , Ramirez, V. A. • and M.R. Helmus. 2022. Coding for broader impact: leveraging coding skills for stakeholder communication. *Frontiers in Ecology and the Environment*. 20(4): 255-262

26. Meng, Y., Chen, H., **Behm, J.E.**, Xia, S., Wang, B., Liu, S., and X. Yang. 2021. Effects of different tea plantation management systems on arthropod assemblages and network structure. *Ecosphere*. 12(7): e03677.
25. Pearsall, H., Gutierrez-Velez, V.H., Gilbert, M.R., Hoque, S., Eaken, H., Brondizio E.S., Solecki, W., Toran, L., Baka, J.E., **Behm, J.E.**, Brelsford, C., Hinrichs, C., Henry, K.A., Mennis, J., Roman, L.A., Rosan, C., South, E.C., Valletta, R.D., 2021. Advancing equitable health and well-being across urban-rural sustainable infrastructure systems. *nj Urban Sustainability* 1, 26.
24. Liu, S., **Behm, J.E.**, Wan, S., Yan, J., Qing, Y., Zhang, W., Yang, X., and Fu, S. 2021. Effects of canopy nitrogen addition on soil fauna and litter decomposition rate in a temperate forest and a subtropical forest. *Geoderma*. 382: 114703.
23. **Behm, J. E.** 2020. Is biodiversity needed for sustainability? A spotlight on urban landscapes. *American Journal of Botany*. 107(5): 703-706
22. Jesse, W. A. M., J. Molleman, O. Franken, M. Lammers, M. P. Berg, **J. E. Behm**, M. R. Helmus, and J. Ellers. 2020. Disentangling the effects of plant species invasion and urban development on arthropod community composition. *Global Change Biology*. 26(6): 3294-3306
21. Tran, T. J., M. R. Helmus, and **J. E. Behm**. 2020. Green infrastructure space and traits (GIST) model: Integrating green infrastructure spatial placement and plant traits to maximize multifunctionality. *Urban Forestry & Urban Greening*. 49:126635.
20. Perella C.D. • and **J. E. Behm**. 2020. Understanding the spread and impact of exotic geckos in the Caribbean region. *Biodiversity and Conservation*. 29(4): 1109-1134
19. Liu, S., Lin, X., **Behm, J. E.**, Yuan, H., Stiblik, P., Šobotník, J., Gan, J., Xia, S., and Yang, X. 2019. Comparative responses of termite functional and taxonomic diversity to land-use change. *Ecological Entomology*. 44(6):762-770.
18. **Behm, J.E.**, van Buurt, G., DiMarco, B. M. •, Ellers, J., Irian, C. G., Langhans, K. E., McGrath, K., Tran, T. J., and Helmus, M.R. 2019. First records of the mourning gecko (*Lepidodactylus lugubris* Duméril and Bibron, 1836), common house gecko (*Hemidactylus frenatus* Schlegel, 1836), and Tokay gecko (*Gecko gecko* Linnaeus, 1758) on the island of Curaçao, Dutch Antilles, and remarks on their distributions in the Caribbean region. *BiolInvasions Records*. 8(1): 34-44.  
media coverage: <https://www.dcnanature.org/wp-content/uploads/2018/12/BioNews20-Gecko.pdf>
17. Rapacciuolo, G., Graham, C.H., **Behm, J.E.**, Costa, G.C., Hedges, S.B., Helmus, M.R., Marin, J., Radeloff, V.C., Young, B.E., and Brooks, T.M. 2019. Species diversity is a surrogate for phylogenetic and functional diversity in targeting conservation. *Nature Ecology and Evolution*. 3: 53-61
16. Liu, S., Hu, J., **Behm, J.E.**, He, X., Gan, J., and Yang, X. 2018. Nitrogen addition changes the trophic cascade effects of predators on a detrital food web. *Ecosphere*. 9(10):e02466.
15. **Behm, J. E.**, Waite, B.R. •, Hsieh, S. T., and Helmus, M.R. 2018. Benefits and limitations of three-dimensional printing technology for ecological research. *BMC Ecology*. 18:32.  
media coverage: <http://www.sciencemag.org/news/2018/04/here-s-what-happens-when-you-replace-toads-and-turtles-3d-printed-replicas-wild>
14. Jesse, W., **Behm, J.E.**, Helmus, M. R., and Ellers, J. 2018. Human land use promotes the abundance and diversity of exotic species on Caribbean islands. *Global Change Biology*. 24:4784-4796.
13. Marin, J., Rapacciuolo, G., Costa, G.C., Graham, C.H., Brooks, T.M., Young, B.E., Radeloff, V.C., **Behm, J.E.**, Helmus, M.R., and Hedges, S.B. 2018. Evolutionary time drives global tetrapod diversity. *Proceedings of the Royal Society B*. 285: 20172378
12. Rapacciuolo G., Marin J., Costa G.C., Helmus, M.R., **Behm, J.E.**, Brooks, T. M., Hedges, S.B., Radeloff, V.C., Young, B.E., and Graham, C. H. 2017. The signature of human pressure history on the biogeography of body mass in tetrapods. *Global Ecology and Biogeography*. 26: 1022-1034.
11. Liu, S., **Behm, J.E.**, Chen, J., Fu, S., Xinbing, H., Hu, J., Schaefer, D. Gan, J., and Yang, X. 2016. Functional

redundancy dampens the trophic cascade effect of a web-building spider in a tropical forest floor. *Soil Biology and Biogeochemistry*, 98: 22-29

10. Jamshidi, S., **Behm, J.E.**, Eveillard, D., Kiers, E. T., Vandenkoornhuysen, P. 2015. Using hybrid automata modeling to study phenotypic plasticity and allocation strategies in the plant mycorrhizal mutualism. *Ecological Modelling*, 311: 11-19.
9. **Behm, J.E.**, Geurts, R. and Kiers, E.T. 2014. *Parasponia*: a novel system for mutualism stability. *Trends in Plant Science*, 19(12): 757-763.
8. **Behm, J.E.** and Kiers, E.T. 2014. A phenotypic plasticity framework for assessing intraspecific variation in arbuscular mycorrhizal fungal traits. *Journal of Ecology*, 102(2): 315-327.
7. Engelmoer, D.J.P., **Behm, J.E.**, Kiers, E.T. 2014. Intense competition between arbuscular mycorrhizal mutualists in an *in vitro* root microbiome negatively affects total fungal abundance. *Molecular Ecology*, 23(6): 1584-1593.
6. **Behm J.E.**, Yang X, Chen J. 2013. Slipping through the cracks: Rubber plantation is unsuitable breeding habitat for frogs in Xishuangbanna, China. *PLOS ONE*, 8(9): e73688.
5. **Behm, J.E.**, Edmonds, D.A. •, Harmon, J.P., and Ives, A.R. 2013. Multilevel statistical models and the analysis of experimental data. *Ecology*, 94(7): 1479-1486.
4. Gilman, R.T. and **Behm, J.E.** 2011. Hybridization, species collapse, and species reemergence after disturbance to premating mechanisms of reproductive isolation. *Evolution*. 65(9): 2592-2605.
3. Quan R-C, Ren, G., **Behm, J.E.**, Wang, L., Huang, Y., Long, Y., and Zhu, J. 2011. Why Does *Rhinopithecus bieti* Prefer the Highest Elevation Range in Winter? A Test of the Sunshine Hypothesis. *PLOS ONE*, 6(9): e24449.
2. **Behm, J.E.**, Ives, A.R., and Boughman, J.W. 2010. Breakdown in postmating isolation and the collapse of a species pair through hybridization. *American Naturalist*, 175(1): 11-26.
1. Drake, D.L., Hagerty, M.A., **Behm, J.E.**, Goldenberg S.J., and Spotila, J.R. 2003. Marine turtle nesting activity at Playa Naranjo Santa Rosa National Park, Costa Rica for the 1998-99 season. *Chelonian Conservation and Biology*, 4(3): 675-678.

#### Published Book Chapters

3. Helmus, M.R. and **J.E. Behm**. 2020. Island Biogeography Revisited. In: Earth Systems and Environmental Sciences. Elsevier. (eds. D. DellaSala, M. Goldstein). Elsevier. pp 51-56. Book Chapter.
2. Helmus, M.R., and **Behm, J.E.** 2018. Anthropocene Island Biogeography. In: Encyclopedia of the Anthropocene (eds. D. DellaSala, M. Goldstein). Elsevier. pp 37-43. Book Chapter.
1. Helmus, M.R., **Behm, J.E.**, Jesse, W.A.M., Kolbe, J.J., Eilers, J. and Losos, J.B. 2017. Exotics exhibit more evolutionary history than natives: A comparison of the ecology and evolution of exotic and native anole lizards. In: Invasion Genetics: The Baker and Stebbins Legacy. (eds. S.C.H. Barrett, K.M. Dlugosch) Book Chapter.

#### Published Natural History Notes and Field Guides

9. **Behm, J.E.**, Busala, G.M. • and M.R. Helmus. 2022. First records of three new lizard species and a range expansion of a fourth lizard species introduced to Aruba. *BioInvasions Records*. 11(1): 296-306.
8. Assour, H.R. • and **J.E. Behm**. 2019. First Occurrence of *Cheilomenes sexmaculata* (Fabricius) (Coleoptera: Coccinellidae) to the Caribbean Island of Curaçao. *Neotropical Entomology*, 48(5):863-865.
7. **Behm, J.E.**, Behm, C. F., Behm, G.M., Behm, M.C., Behm, S.P. and Helmus, M.R. 2018. *Hemidactylus turcicus* (Mediterranean Gecko) Geographic Update. *Herpetological Review*. 49(1): 73.
6. **Behm, J.E.**, and Helmus, M.R. 2016. *Microhyla butleri* (Tuberclad Pygmy frog) predation. *Herpetological Review*, 47(4): 643-644.
5. **Behm, J.E.**, and Fu, W.K.V. • 2013. Field guide to the frogs of the Xishuangbanna Tropical Botanic

- Garden. Xishuangbanna Tropical Botanic Garden Education Center Press.
4. Edmonds, D.A. • and **Behm, J.E.** 2012. *Raorchestes menglaensis* (Mengla small treefrog) coloration. *Herpetological Review*, 43(1): 125.
  3. Edmonds, D.A. • and **Behm, J.E.** 2012. *Raorchestes menglaensis* Geographic Update. *Herpetological Review*, 43(1): 125-126.
  2. **Behm, J.E.**, Knaebe, B. E. •, Fu, V.W.K. •, and Edmonds, D.A. • 2012. *Polypedates leucomystax* (Java Whipping Frog) communal nesting. *Herpetological Review*, 42(4): 587-588.
  1. Drake, D.L., **Behm, J.E.**, Goldenberg, S.J. and Hagerty, M.A. 2001. *Lepidochelys olivacea* (olive ridley sea turtle) predation. *Herpetological Review*, 32:104.

## COMPETITIVE RESEARCH FUNDING

*\$770k in funding as PI at Temple*

*\$2.2M total funding as an assistant professor at Temple*

- 2024 USDA-PPQ (\$111k): Building predictive models of spotted lanternfly densities based on host plant communities for risk analysis (PI)
- 2024 Pennsylvania Department of Agriculture (PDA) Research Grant (\$60k): Analyzing the role of invasive plants on Lyme disease and other tick-vectored pathogens in Pennsylvania (PI)
- 2023 PDA Research Grant (\$75k): Modeling strategies and mitigation measures to optimally control the spotted lanternfly invasion and its economic impacts (co-PI)
- 2022 USDA-TSAB (\$471k): Mapping and predicting spread of the invasive Spotted Lanternfly (*Lycorma delicatula*) at local and landscape scales using satellite data (PI)
- 2022 OVPR Catalytic Research Initiative (\$195k): Catalyzing convergence research on health and well-being through a Bio3Science sustainability framework (co-PI)
- 2022 USDA-PPQ (\$112): Mathematical modeling of spotted lanternfly population dynamics to enhance mitigation and optimize rapid response actions (co-PI)
- 2022 Temple University Faculty Senate Research Programs and Policies Committee funds (\$1500): Roles of foxes, cats, and coyotes in the control of Lyme Disease (PI)
- 2021 PDA Research Grant (\$80k): The role of invasive plants on Lyme disease and other tick-vectored pathogens in Pennsylvania (PI)
- 2021 PDA Research Grant (\$99k): Furthering computational approaches to model the spotted lanternfly invasion and economic impacts (co-PI)
- 2020 PDA Research Grant (\$48k): Investigating the role of invasive plants on the prevalence of Lyme disease in Pennsylvania (PI)
- 2020 CA Dept of Agriculture Research Grant (\$130k): Risk-based forecasts of spotted lanternfly establishment across California (co-PI)
- 2020 USDA-PPQ (\$120k): Mathematical modeling of spotted lanternfly population dynamics to aide in spread prediction and control optimization (co-PI)
- 2020 PDA Research Grant (\$145k): Furthering computational approaches to model the spotted lanternfly invasion and economic impacts (co-PI)
- 2020 USDA-APHIS (\$185k): Linking field biology and mathematical modeling to predict spotted lanternfly spread and optimal control (co-PI)
- 2019 USDA-SCRI (\$426k): Dispersal, ecology and dynamics of the spotted lanternfly invasion (co-PI)
- 2019 NSF SUS Conference (\$50k): How does infrastructure shape equity and well-being across the urban-rural gradient? (senior personnel)
- 2019 PDA Research Grant (\$75k): An integrative approach to model, predict and control the spotted lanternfly invasion meltdown in Pennsylvania (co-PI)

- 2018 PDA Research Grant (\$42k): An integrative approach to model, predict and control the spotted lanternfly invasion meltdown in Pennsylvania (co-PI)
- 2016 Dobberke Foundation Behavioral Ecology Grant (\$2k) (PI)
- 2014 NWO Dutch Caribbean Research Grant (\$640k): Caribbean island biogeography meets the Anthropocene (PI)
- 2014 Chester County Economic Development Council Agriculture Partnership Grant (\$500) (PI)
- 2013 Amsterdam Global Change Institute (\$6500): Biodiversity neutral development of Roggebotstaete (PI)
- 2009 Fulbright Institute of International Education Fellowship (\$18,350): Determining the impact of rubber plantations on frog species in Xishuangbanna, China (PI)
- 2008 Graduate Research Grant, University of Wisconsin Department of Zoology (\$3,000): Assessing the impact of rubber plantations on frog biodiversity in Xishuangbanna, Yunnan, China (PI)
- 2008 IGERT Supplemental Funds Grant (\$5000): Assessing the impact of rubber plantations on frog biodiversity in Xishuangbanna, Yunnan, China (PI)
- 2005 World Wildlife Fund Canada Endangered Species Recovery Fund (\$24,000): Investigation of crayfish as the causal agent for increased Enos Lake benthic and limnetic stickleback hybrid abundance (PI)
- 2005 Zoological Society of Milwaukee Student Conservation Grant (\$2,000): Endangered threespine stickleback species loss through hybridization: Is the invasive crayfish to blame? (PI)

## RESEARCH PRESENTATIONS

### Invited presentations

- 18. **Behm, J.E.** 2023. Global change and community assembly: tales from the Caribbean and the epicenter of the spotted lanternfly invasion. University of Virginia Blandy Field Station.
- 17. **Behm, J.E.** 2022. *Human impacts on community assembly and consequences for ecosystem services.* Sun Yat Sen University, Shenzhen, China (virtual presentation).
- 16. **Behm, J.E.** 2020. *Human impacts on spatial genetic structure.* University of Massachusetts – Dartmouth, Dartmouth, MA (virtual presentation).
- 15. **Behm, J.E.** 2020. *Human impacts on community assembly: tales from the Caribbean and from the epicenter of the spotted lanternfly invasion.* Michigan State University, East Lansing, MI. (virtual presentation)
- 14. **Behm, J.E.** 2019. *Tracking the spread of Hitchhiking Exotic Species.* Wagner Free Institute of Science, Philadelphia, PA.
- 13. **Behm, J.E.** 2019. *Anthropogenic rescaling of dispersal and coexistence drives the establishment of exotic lizards in the Caribbean.* Universidad Autónoma del Estado de Morelos, Cuernavaca, Morelos, Mexico
- 12. **Behm, J.E.** 2018. *Using the currency of ecosystem services to quantify the sustainability of the local food system in Philadelphia, PA.* Urban futures conference, Temple University, Philadelphia, PA, USA
- 11. **Behm, J.E.** 2017. *The roles of biotic resistance and human development in the establishment of exotic lizards on Curaçao island.* Academy of Natural Sciences at Drexel University, Philadelphia, PA.
- 10. **Behm, J.E.** 2015. *How traits lead to species declines following environmental change.* Temple University
- 9. **Behm, J.E.** 2015. *How traits lead to species declines following environmental change.* Utah State University.
- 8. **Behm, J.E.** 2015. *How traits lead to species declines following environmental change.* University of Oklahoma.

7. Behm, J.E. 2014. *Biodiversity footprinting: Lessons from Biodiversity impact surveys*. Ursinus College
6. Behm, J.E., and E. T. Kiers. 2013. *A phenotypic plasticity framework for assessing intraspecific variation in arbuscular mycorrhizal fungi traits*. International Association for Ecology Annual Congress, London, England.
5. Behm, J.E. 2013. *Can the carbon neutrality framework be applied to biodiversity?* Sustainability Research Symposium, University of Amsterdam.
4. Behm, J.E. 2012 *Habitat selection in frogs from tropical Xishuangbanna, China*. Undergraduate Tropical Herpetology Seminar, University of Wisconsin- Madison.
3. Behm, J.E. 2011 *Ecological interactions in an evolutionary context*. Netherlands Institute of Ecology, Wageningen, Netherlands
2. Behm, J.E. 2008 *Effects of rubber plantations on frogs in tropical China: preliminary results*. Undergraduate Zoological Society, University of Wisconsin-Madison.
1. Behm, J.E., A.R. Ives and J.W. Boughman. 2006. *Invasive crayfish and stickleback hybrids: what we know so far*. Weekly Seminar Series, Center for Limnology, University of Wisconsin- Madison.

Submitted presentations

9. Behm, J.E., and Helmus, M.R. 2018. *Incorporating biotic resistance in models to predict the establishment probability of exotic lizard species*. Ecological Society of America Mid-Atlantic Conference Annual Meeting, April 7, 2018. Research Talk. Newark, New Jersey.
8. Behm, J.E., Helmus, M.R., Jesse, W., and Eilers, J. 2017. *Incorporating biotic resistance in models to predict the establishment probability of exotic lizard species*. Ecological Society of America Annual Meeting, August 9, 2017. Research Talk. Portland, Oregon.
7. Behm, J.E., X. Yang, J. Chen. *Surveys incorporating breeding and post-metamorphic habitat use reveal rubber plantations are poor habitat for frogs*. University of Wisconsin Ecology Spring Symposium. March 29, 2012. Research Talk. University of Wisconsin- Madison.
6. Behm, J.E. 2011. *Assessing the competition-predation phenotypic plasticity trade-off in three tadpole species*. Ecological Society of America Annual Meeting. August 12, 2011. Research Talk. Austin, TX.
5. Behm, J.E., Chen, J, Yang, X. *The failure of frog populations to expand into human-created habitat: Why frogs do not breed in rubber plantations in Xishuangbanna, China*. Association for Tropical Biology Asia-Pacific Chapter Annual Meeting. February 15, 2009. Research Talk. Chiang Mai, Thailand.
4. Behm, J.E., A.R. Ives and J.W. Boughman. *Can an invasive species induce the hybridization of two native species?* Symposium of pioneering young scientists on chemical pollution and environmental change. November 19, 2006. Research talk. Matsuyama, Japan.
3. Behm, J.E., A. R.Ives, J.W. Boughman. *Can an invasive species trigger the hybridization of two native species?* Ecological Society of America: Ecology in an Era of Globalization. January 11, 2006. Poster Presentation. Merida, Mexico.
2. Behm, J.E., M.A., Hagerty, D.L. Drake and J. R. Spotila. 2000. *Marine turtle nesting activity at Playa Naranjo, Santa Rosa National Park, Costa Rica, 1998-99*. 20th Annual International Symposium on Sea Turtle Biology and Conservation. March 2000. Poster Presentation. Orlando, Florida.
1. Behm, J.E., M.A., Hagerty, D.L. Drake and J. R. Spotila. 2000. *Marine turtle nesting activity at Playa Naranjo, Santa Rosa National Park, Costa Rica, 1998-99*. The 12th Annual Sigma Xi Research Symposium. May 2, 2000. Poster Presentation. Philadelphia, PA.

## TEACHING EXPERIENCE

### Lead Instructor

❖ indicates course was developed by me

■ indicates course was re-designed by me

2019-24	Biological Impacts of Climate Change (BIOL 4327) – Temple University, Philadelphia, PA■
2018-24	Principles of Ecology (BIOL 2227) – Temple University, Philadelphia, PA■
2023	Landscape Ecology and Sustainability Graduate Seminar (BIOL 8250) – Temple University, Philadelphia, PA❖
2020	Statistics Workshop Graduate Seminar (BIOL 8250) – Temple University, Philadelphia, PA❖
2018	Ecosystem Functioning Graduate Seminar (BIOL 8250) – Temple University, Philadelphia, PA❖
2015	Biodiversity (BIO 350.E) – Ursinus College, Collegeville, PA❖

### Teaching Assistant – University of Wisconsin-Madison

2005	Introductory Biology for non-majors (ZOO 101)
2005-06	Introductory Biology Laboratory for non-majors (ZOO 102)
2008	Extinction of Species (ZOO 360)
2005-08	Evolutionary Biology (ZOO 410)

### Field Course Instructor – Xishuangbanna Tropical Botanic Garden, Yunnan, China

2009	Advanced Field Ecology and Conservation Course. Taught herpetology section and led student independent project group that won 1 <sup>st</sup> prize for best independent research project.
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## MENTORSHIP

~70 mentored at Temple: 3 postdocs; 3PhD; 1 Masters; 40+ undergraduates

### At Temple University

#### Postdoctoral Researchers

2023-	Owen Schneider
2020-23	Jason Gleditsch (co-advised)
2020-22	Nadege Belourd

#### PhD Students

2023-	Robert Hendrickson
2018-24	Payton Phillips
2018-23	Timothy Swartz

#### Masters Students

2022-23	Anna Carlson
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#### Grad Student Committee Member

2024-	Justin Ryan
2023-	Christina Tancredi
2023	Matthew Marcus (GUS)
2021-	Katie McManus
2020	Kelly Franklin (MS)

2019-	Emily Cowell
2018-23	Molly Schools
2020-22	Elizabeth Tucker
2019-22	Gerard Smith
2019-20	Mariana Bonfim
2018-20	Michele Repetto

#### Undergraduates

*\*independent project*

2024-	Lilah Shtino*
2024	Winter Brook
2024-	Gage Bernstein
2023-24	Zackary Giblin*
2023-	Cameron Mann*
2023-	Katie Gibson*
2023-24	Kaitlyn Kirkpatrick*
2022-23	Kathryn Hamilton*
2022-	Jore Badgonas*
2022-23	Ben Silbar*
2022-23	Rupali Sharma*



2022	Jenna Facer	2020-22	Jonathan Falciani*
2022	Christopher Merlo	2020	Benjamin Venkatessulu
2022	Zaina Archer*	2020	Dawn Becker
2021-22	Yash Patel*	2020	Alexandra Forkin
2021-22	Siya Patel*	2019	Kayla Perre
2021-22	Jenna Babb*	2019-20	Brendan Pang*
2021-22	Kyle Tumanda	2019	Rachel Lewandowski
2021	Kristine Chin	2019-20	Pamela Rodriguez
2021-22	Ryan Miller	2019-22	Gianna Busala*
2021	Alison Blaney*	2018-20	Spencer Williams*
2021-22	Maha Moghal*	2018	Adam Kurzrok
2021	Christina Cha	2017	Haseeb Goheer*
2021	Aaron Feller	2017	Brenna Waite*
2018-20	Victoria Ramirez*	2017-18	Camille Lynch*
2020-22	Jackson Fahey*	2017-18	Daniel Turner*
2020	Maria Buxton	2017-19	Lahari Gadey*
2020	Rachel Santospirito	2017-19	Hannah Assour*

### Other Universities

#### Masters Students

2023	Myrthe van Paridon (VU-Amsterdam)
2013	Benjamin Hearn (VU-Amsterdam)
2013	Annette van Balen (U of Amsterdam)
2010	Vivian Wing Kan Fu (Hong Kong U)

#### Undergraduates – University of Wisconsin

2009-10	Devin Edmonds
2009	Brenna Knaebe
2005	Freya Rowland

2005	Katherine Groble
2004	Dana Bigham
2004	Kristin Aquilino

#### Undergraduates – Drexel University

2020-21	Marissa Reed
2019	Kathryn Innamorato
2018	Brianna DiMarco
2017-18	Christina Perella

## PROFESSIONAL SERVICE

#### University Service

2022-present	Temple University Biology Department P & P Committee
2021-present	Temple University College of Science and Technology Awards Committee
2020-2023	Temple University College of Science and Technology Diversity, Equity and Inclusion Committee (founding member)
2021-22	Department of Biology Ecology and Evolution faculty search committee
2018-20	Biology Department Graduate Recruitment Committee Co-Chair
2018-19	Temple University Biology Department P & P Committee
2017-18	Undergraduate Research Program Poster Symposium Judge

#### External Service

2021-present	Pennsylvania Invasive Species Management Plan co-Author
2020-present	Pennsylvania Invasive Species Council Member
2019-present	Delaware Valley Regional Planning Commission Futures Group Member

### Society Membership

Botanical Society of America, Ecological Society of America, Entomological Society of America, Society for Conservation Biology, Society for the Study of Amphibians and Reptiles

### Peer Reviewer

The American Naturalist, Animals, Biodiversity and Conservation, BioInvasions Records, Cities, Ecological Engineering, Ecology, Global Change Biology, Global Ecology and Conservation, Integrative and Comparative Biology, Journal of 3D Printing in Medicine, Journal of Tropical Ecology, npj Urban Sustainability, Oecologia, PLOS Computational Biology, PLOS ONE, PNAS NEXUS, Proceedings B, Israeli NSF, Department of Defense, US National Science Foundation

## **AWARDS AND HONORS**

- 2023 Invited participant to NSF funded “Macrosystems Ecology For All” workshop
- 2022 Invited participant to NSF funded “Eco-Evo LTER” workshop
- 2020 Temple University College of Science and Technology William Caldwell Distinguished Teaching Award
- 2020 Appointed to Pennsylvania Governor’s Invasive Species Council
- 2012 Best student presentation at the Wisconsin Ecology Symposium
- 2006 NSF IGERT Fellow- Biodiversity Conservation and Sustainable Development in Yunnan, China
- 2003 University of Wisconsin- Madison University Fellowship for Academic Excellence

## **OUTREACH**

- 2022- Gordon Natural Area Public Science Day
- 2021- Science of the Scary for the general public at Temple University Ambler Campus
- 2019 CST Extreme Alumni Weekend Presentation
- 2018- Custom biodiversity reports developed in R that summarize research findings for stakeholders that grant us access to their land including farmers, residents and land managers
- 2018 Panelist for Defend our Future Climate Change event discussing the links between coffee agriculture, climate change and sustainability
- 2014 Biodiversity Conservation Presentation to Chester County AMBUCS association
- 2013-14 Sustainable Development and Biodiversity Conservation of Roggebot Estate, the Netherlands

## **SUPPLEMENTAL EDUCATION**

- 2020 NSF-CyVerse Foundational Open Science Skills
- 2017-18 Grant Academy – Temple University
- 2014 Permaculture Design Certificate
- 2004 Organization for Tropical Studies: Tropical Ecology and Conservation, Costa Rica