
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
- 2015-2017 Adjunct Professor, Temple University
- 2015 Adjunct Professor, Ursinus College
- 2012-2017 Postdoctoral Fellow, Department of Ecological Science, Vrije Universiteit, The Netherlands
- 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

Submitted/Preprint

*graduate student

40. **Behm, JE**, J Ellers, WAM Jesse*, TJ Tran, MR Helmus. 2023. Predicting and quantifying coexistence outcomes between resident and invading species using trait and abundance data. bioRxiv. 2023.01.12.523647. *In review at Ecology Letters*
39. Gleditsch, J., **JE Behm**, MR Helmus. 2023. The great acceleration of island saturation by species introductions in the Anthropocene has altered species-area relationships. bioRxiv. 2023.01.10.523426.
38. Jesse, WAM*, J Ellers, **JE Behm**, GC Costa, SB Hedges, MR Helmus. 2022. Elevated human footprint on islands promotes both introduction and extinction probability of insular reptiles at opposite ends of geographic, evolutionary and ecological continua. bioRxiv. 2022.03.11.483632.

Published Articles

*graduate student; • undergraduate student

37. Swartz, TM*, JM Gleditsch, and **JE 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.**, Philips, 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. *BioInvasions 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., Xinhing, 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., Vandenkoornhuyse, 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.

Book Chapters

3. Helmus, M.R. and **J.E. Behm**. 2020. Island Biogeography Revisited. In: Earth Systems and Environmental Sciences. Elsevier.
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., Ellers, 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.

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. *BiolInvasions 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.

RESEARCH GRANTS AND AWARDS

Research Funding Received

- 2022 USDA (\$470k): Mapping and predicting spread of the invasive Spotted Lanternfly (*Lycorma delicatula*) at local and landscape scales using satellite data (PI)
- 2022 OVPB Catalytic Research Initiative (\$195k): Catalyzing convergence research on health and well-being through a Bio3Science sustainability framework (co-PI)
- 2021 Pennsylvania Department of Agriculture Research Grant (\$80k): The role of invasive plants on Lyme disease and other tick-vectored pathogens in Pennsylvania (PI)
- 2021 Pennsylvania Department of Agriculture Research Grant (\$99k): Furthering computational approaches to model the spotted lanternfly invasion and economic impacts (co-PI)
- 2020 Pennsylvania Department of Agriculture 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 (\$116k): Mathematical modeling of spotted lanternfly population dynamics to aide in spread prediction and control optimization (co-PI)
- 2020 Pennsylvania Department of Agriculture Research Grant (\$145k): Furthering computational approaches to model the spotted lanternfly invasion and economic impacts (co-PI)
- 2020 USDA (\$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 Pennsylvania Department of Agricultural Research Grant (\$75k): An integrative approach to model, predict and control the spotted lanternfly invasion meltdown in Pennsylvania (co-PI)
- 2018 Pennsylvania Department of Agricultural 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)
- 2013 Amsterdam Global Change Institute (\$6500): Biodiversity neutral development of Roggebotstaete
- 2009 Fulbright Institute of International Education Fellowship (\$18,350): Determining the impact of rubber plantations on frog species in Xishuangbanna, China
- 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
- 2008 IGERT Supplemental Funds Grant (\$5000): Assessing the impact of rubber plantations on frog biodiversity in Xishuangbanna, Yunnan, China
- 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
- 2005 Zoological Society of Milwaukee Student Conservation Grant (\$2,000): Endangered threespine stickleback species loss through hybridization: Is the invasive crayfish to blame?

Awards and Fellowships

- 2020 Temple University College of Science and Technology William Caldwell Distinguished Teaching Award
- 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

TEACHING EXPERIENCE

Lead Instructor

2018-23	Principles of Ecology (BIOL 2227) – Temple University, Philadelphia, PA
2019, 2022	Biological Impacts of Climate Change (BIOL 4327) – 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, Colledgeville, 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 st prize for best independent research project.
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MENTORSHIP

**indicates student is co-author on manuscript* *†indicates student presented work at conference*

Postdoctoral Researchers

Temple University: Jason Gleditsch (2020-present); Nadege Belouard (2020-2022)

PhD Students

Temple University: Payton Phillips*[†] (2018-present), Timothy Swartz*[†] (2018-present)
 Vrije Universiteit-Amsterdam: Wendy Jesse*[†] (co-advised 2015-2022)
 PhD Committee Member Temple University: Mariana Bonfim, Emily Cowell, Katie McManus, Michele Repetto, Molly Schools, Gerard Smith, Elizabeth Tucker

Masters Students

Temple University: Anna Carlson (2022-present)
 Vrije Universiteit - Amsterdam: Myrthe van Paridon (2023-present); Benjamin Hearn (co-advisor, 2013)
 University of Amsterdam: Annette van Balen (2013)
 Hong Kong University: Vivian Wing Kan Fu (2010)

Undergraduate Students

Temple University: Benjamin Silbar[†] (2022 – present); Jackson Fahey*[†] (2020 – present); Gianna Busala* (2019-2022); Yash Patel (2020 – 2022); Jonathan Falciani* (2020 – 2022); Maria Buxton (2020 – 2021); Alexandra Forkin (2020 – 2021); Brendan Pang (2019 – 2020); Kayla Perre (2019); Rachel Lewandowski (2019); Pamela Rodriguez (2019); Victoria Ramirez* (2018-2019); Spencer Williams* (2018-2020); Daniel Turner*[†] (2017-18); Camille Lynch[†] (2017-18); Hannah Assour* (2017-2020); Lahari Gadey[†] (2016-18); Brenna Waite* (2016-17); Haseeb Goheer[†] (2016-17)

Drexel University: Marisa Reed (2020 – 2021); Kathryn Innamorato (2019); Brianna DiMarco* (2018); Christina Perella* (2017-18)

University of Wisconsin-Madison: Devin Edmonds*, Brenna Knaebe, Katherine Groble, Freya Rowland, Kristin Aquilino, Dana Bigham

RESEARCH PRESENTATIONS

Invited presentations

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.

SUPPLEMENTAL EDUCATION

2017-18	Grant Academy – Temple University
2014	Permaculture Design Certificate
2004	Organization for Tropical Studies: Tropical Ecology and Conservation, Costa Rica

PROFESSIONAL SERVICE

University Service

2022-present	Temple University Biology Department P & P Committee
2020-present	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

Society for Conservation Biology, Ecological Society of America, Society for the Study of Amphibians and Reptiles, PA State Invasive Species Council

Peer Reviewer

njp Urban Sustainability, PNAS NEXUS, The American Naturalist, Ecology, Ecological Engineering, Global Change Biology, Global Ecology and Conservation, Integrative and Comparative Biology, PLOS Computational Biology, PLOS ONE, Proceedings B, Journal of Tropical Ecology, BioInvasions Records, Oecologia, Journal of 3D Printing in Medicine, Biodiversity and Conservation, Animals

OUTREACH

2019	CST Extreme Alumni Weekend Presentation
2018-19	Custom farm biodiversity reports developed in R that summarized research findings and were distributed to farmers and homeowners involved in our research
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