JESSICA HUA

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Updated 07/17/2025

EDUCATION

Ph.D.	University of Pittsburgh, Pittsburgh, PA	Ecology and Evolution, 2014
B.A.	Southwestern University, Georgetown, TX	Biology and Kinesiology, 2008

PROFESSIONAL EXPERIENCE

2020	**Associate Professor,** Department of Forest and Wildlife Ecology, University of Wisconsin–Madison, WI. *Position began Fall 2022
	Associate Professor, Biological Sciences Department, Binghamton University, Binghamton, NY.
2020- 2022	**Director,** Center for Integrated Watershed Studies, Binghamton University, Binghamton, NY.
2015	**Co-Chair of Amphibian Ecotoxicology Section,** International Union for Conservation of Nature- Species Survival Commission- Amphibian Specialist Group
2015- 2020	**Assistant Professor**, Biological Sciences Department, Binghamton University, Binghamton, NY.
2014- 2015	**Post-doctoral Scholar** in Natural Resources, Department of Forestry and Natural Resources, Purdue University.

GRANTS *blue font=active; black font = completed

Post-tenure grants:

(Grants administered at UW–Madison)

2025- 2027* **EPA- GLRI:** Focus Area 1.2 Toxic Substances and Areas of Concern
UW-PI- J.Hua. WDNR- PI- D. Grandmaison and M. Magee. *Wild Rice Consumption Risk in the St. Louis River Estuary $215,000*

2024- 2026* **NOAA Sea Grant** *R/HCE-55*
PI- J.Hua. *People and plastics: Engaging Tribal community scientists in ecotoxicology to understand the distribution and effect of microplastics in the Great Lakes Ecosystem $239,144*

2024- 2025* **NOAA Sea Grant** *A-HCE-06-PD*
PI- J.Hua. *Building community relationships to understand pollutants in the Good Way $37,400*

2024- 2027* **Wisconsin Idea Collaboration Grant**
PI- J.Hua. Co-PI- D. Drake. *Amigos de los Anfibios: Engaging with Spanish-speaking families to understand threats to Wisconsin's freshwater resources and amphibian communities $99,935*

2023-2027* **NSF CAREER DEB Population and Community Ecology** Award Number: 2314625
PI- **J. Hua**, *Evolutionary Disease Ecology- Can evolutionary responses to environmental change modify the biodiversity-disease relationship? $947,030*

2024: **NSF DEB Population and Community Ecology Supplement**- Lead PI- **J. Hua**. *Research Experience for Teachers:* $14,300

2023- 2026* **USDA National Institute of Food and Agriculture- HATCH.**
PI- **J. Hua**, *A double-edged sword: How does evolving tolerance to pesticides influence wildlife disease susceptibility in lab, mesocosm, and field settings? $206,193*

2023-2025* **National Institute of Food and Agriculture- Rural Partnerships Initiative–**Connecting Cultural Values and Indigenous Research towards Food System Resilience OVERALL *TOTAL $1,100,000* (Manoomin Ecotoxicology Sub-team TOTAL *$238,000*); Collaborator.

2023- 2024 **Water @ UW and Morgridge Center Community-based Research Grant**
PI- J.Hua. Freshwater biodiversity science for young community scientists. $9,700

2022-2023 **NY State Pollution Prevention Institute**
PI- Yuxin Wang Co PIs- **J. Hua** and H. Liu, *Mycoremediation of PFAS emissions during thermal treatment of lithium-ion batteries recycling processes $150,000*

(Grants administered by Binghamton University):

2017-2022 **NSF DEB Population and Community Ecology-** Award Number: 1655190
PI- **J. Hua**, Co-PIs- J. Hoverman and R. Relyea; *Collaborative Grant: Disease ecology in the midst of anthropogenic stressors: Exploring the influence of pesticides on host-parasite interactions.* Overall project: $749,907

2021: **NSF DEB Population and Community Ecology Supplement**- Lead PI- **J. Hua**. *Research Experience for Undergraduate:* $15,600

2021-2022 **NSF DEB Population and Community Ecology Supplement**- Lead PI- **J. Hua**. Career-Life Balance: $36,444

2021 **Transdisciplinary Areas of Excellence- Sustainable Communities**
Co-PIs- Yuxin Wang Co PIs- **J. Hua** and H. Liu, *Risk assessment of PFAS emissions during thermal treatment of lithium-ion batteries recycling processes $14,913*

Pre-tenure grants:

2020-2022 **Woods Ravine Conservation Foundation-** Lead PI- **J. Hua**. *Improving the efficacy of personalized management plans: Targeted solutions for addressing stakeholder-specific environmental issues.* Overall project: $10,000

2020-2021 **Harpur College Faculty Research Grant-** Lead PI- **J. Hua**. *Improving the efficacy of personalized management plans: Targeted solutions for addressing stakeholder-specific environmental issues.* Overall project: $500

2017-2020 **Robert F. Schumann Foundation.** Co-PIs- **J. Hua,** C. Mack, and P. Mischen. *Binghamton University and Roberson Science Center Ecosystems Collaborative Education Program.* Overall project: $178,530

2016 **Binghamton University's Transdisciplinary Area of Excellence Small Grants**. *Effect of antimicrobials on amphibian skin microbiome.*

2014 **Purdue Forestry and Natural Resources Small Grants.** *Landscape genetics of wood frogs in a complex world: Pesticides, viruses and parasites.*

2014 Purdue Post-Doctoral Fellowship in Natural Resources

2013 Andrew Mellon Fellowship

2012 Freshwater Science Endowment Award

2011 Crustacean Society Grant

2009-2012 McKinley Grant

2010	Sigma Xi
2009-2012	NSF Graduate Research Fellowship Program (GRFP)
2007	NSF Research Experience for Undergraduates Grant (REU)
2006	Fleming Fund Undergraduate Research Fellowship

AWARDS

2022	Chancellor's Award for Excellence in Scholarship and Creative Activities
2022	National Wetlands Award- Promoting Awareness
2021	Provost Award for Faculty Excellence in Community-Engaged Scholarship
2018	Lois B. DeFleur International Innovation Fund
2018	Harpur College Subvention Award
2017	Harpur College Teaching Award
2017	ESGR Patriot Award from the US Department of Defense

PEER-REVIEWED PUBLICATIONS *Citations = 1078; H-index = 21; i10-index = 34 (Post-tenure- 2020)*

Post-tenure publications

Purple text = international collaborations; IF= Journal 5 yr impact factor

*Graduate student trainee; ⁺Undergraduate student trainee; ^postdoctoral trainee

In review

Affek, K., *N. Buss, G. Dehnert, J. Hite, A. Affek, **J. Hua**. In review. Direct and Indirect Ecological Impacts of Microplastic Fibers on Host-Parasite and Host-Microbiota Interactions. *Environmental Science and Technology. IF: 12.4*

Affek, K., *N. Buss, A. Affek, ^Z. Gajewski, ⁺S. Awve, G. Dehnert, **J. Hua**. In review. Effects of microplastics' concentration and density on functioning and development of model wetland communities. *Proceedings of the Royal Society B: Biological Sciences. IF: 4.4*

*Ricci, K., ⁺K. Lu, ⁺C. Chen, ⁺C. Hansen, ⁺E. Low, *M. Campbell, *E. Milusich, ^B. Tuthill, *I. Velasquez., **J. Hua**. In review. An integrated independent study model for reducing barriers to science-art collaborations. *Journal of Science Communication. IF: 2.1*

*Ricci, K., J. García-Vila, **J. Hua**, M. Rinkus, and V. Imbruce. In review. Using interdisciplinary dialogue to understand the influence of identities on undergraduate research experiences. *Nature Humanities & Social Sciences. IF: 3.9*

Hua, J. Amphibian and Reptile Field Guide for Kids. AdventureKEEN Publishing.

2025

61. *Velasquez, I., *K. Ricci, *E. Milusich, ^B. Tuthill, K. Sauer, O. Hernandez-Gomez, and **J. Hua**. 2025. Microbial responses to antibiotics cryptically shift the direction of disease outcomes. Nature Scientific Reports. *IF: 4.3*

60. *Ricci, I., ⁺E. Ronan, *G. Shidemantle, *N. Buss, *D. DiGiacopo, K. Affek, I. Gomez-Mestre, and **J. Hua**. In press. Effects of body mass and legacy of pesticide contamination on oxidative stress biomarkers in larval Rana sylvatica under baseline and NaCl-contaminated conditions. Environmental Toxicology and Chemistry. *IF: 3.8*

59. Doskocz, N., D. Skwarska, K. Affek, M. Kucharska, **J. Hua**., M. Załęska-Radziwiłł. 2025. Polystyrene microbeads in freshwater ecosystems - Ecotoxicological effects on *Daphnia magna*. Ecohydrology & Hydrobiology. 100647. https://doi.org/10.1016/j.ecohyd.2025.100647 *IF: 2.7*

58. *Milusich, E., E. Ruhs, J. Gilbert, **J. Hua**, and G. Dehnert. 2025. Detection of PFAS in sugarbushes across the ceded territories: A method for PFAS analysis in maple sap and syrup. Environmental Science and Pollution. Volume 32, pages 10007–10018. https://doi.org/10.1007/s11356-025-36308-4

2024

57. Reinke, B., J. Avery, **J. Hua.** 2024. The importance of integrating non-visual functions of pigments in

the context of global change to understand impacts on visual systems. **Functional Ecology.** *IF: 5.7*

56. *Ricci, K., ⁺K. Lu, *G. Shidemantle, **J. Hua**. 2024. Engaging youth in biodiversity education through visual narrative. **Conservation Biology.** *IF: 6.7*
55. **Hua, J.,** M. Boone, C. Gabor, I. Gomez-Mestre, M. Katzenberger, T. McMahon and S. Rumschlag. 2024. Chapter 4: Ecotoxicology: amphibian vulnerability to chemical contamination. In: IUCN's Amphibian conservation action plan : a status review and roadmap for global amphibian conservation. Edited by Edited by: Sally Wren, Amaël Borzée, Ruth Marcec-Greaves and Ariadne Angulo. https://doi.org/10.2305/QWVH2717 *Co-first authors.
54. Imbruce, V., V. Jaeger, M.A. Rinkus, **J. Hua**, and M. O'Rourke 2024. Raising undergraduate researchers' interdisciplinary consciousness through dialogue. **Journal of Environmental Studies and Sciences.** 10.1007/s13412-024-00942-0. *IF: 2.2*
53. Jones, D., *D. DiGiacopo, B. Mattes, E. Yates, **J. Hua**, J. Hoverman, and R. Relyea. 2024. Naïve and induced tolerance of 15 amphibian populations to three commonly applied insecticides. **Aquatic Toxicology** 272: 106945 *IF: 4.4*

2023

52. **Hua, J.** 2023. Women in Herpetology- 50 Stories from Around the World. 2023. *"From shooting basketballs to catching frogs."* Edited by Umilaela Arifin, Itzue W. Caviedes Solis, and Sinlan Poo.
51. *Buss, N. and **J. Hua.** 2023. Host exposure to a common pollutant can influence diversity–disease relationships. **Journal of Animal Ecology**. 92(11):2151-2162. doi: 10.1111/1365-2656.13988. *IF: 4.7*
50. Billet, L., *V.P. Wuerthner, R.A. Relyea, J.T. Hoverman, and **J. Hua.** 2023. Population-level variation in pesticide tolerance across three life stages of the trematode Echinostoma trivolvis. **Aquatic Toxicology.** 261:106626. doi: 10.1016/j.aquatox.2023.106626. *IF: 4.4*
49. ⁺Horn, K., *G. Shidemantle, *I. Velasquez, ⁺E. Ronan, ⁺J. Blackwood, B.A. Reinke, and **J. Hua**. 2023. Evaluating the Interactive Effects of Artificial Light at Night and Background Color on Tadpole Crypsis, Background Adaptation Efficacy, and Growth. **Environmental Pollution** 333: 122056. *IF: 11.7*
48. *Ricci, K., B. McLauchlin, **J. Hua**. 2023. Impact of a Science Art Exhibit on Public Interest and Student Comprehension of Disease Ecology Research. **Journal of Microbiology and Biology Education**. https://doi.org/10.1128/jmbe.00162-22. *IF: 4.4*
47. Hernandez-Gomez, O. and **J. Hua**. 2023. From the organismal to biosphere levels: environmental impacts on the amphibian microbiota. **FEMS Microbiology Reviews** 47(1):fuad002. *IF: 1.5*
46. ⁺Enochs, B, G. Meindl, *G. Shidemantle, *V. Wuerthner, ⁺D. Akerele, ⁺A. Bartholomew, ⁺B. Bulgrien, ⁺A. Davis, ⁺K. Hoyt, ⁺L. Kung, ⁺M. Molina, ⁺E. Miller, ⁺A. Winship, ⁺Y. Zhang, J. Graney, ^D. Collins, & **J. Hua**. 2023. Short and long-term phytoremediation capacity of aquatic plants in Cu-polluted environments. **Heliyon** 9(1), e12805. *IF: 3.4*

2022

45. *Wuerthner, VP., **J. Hua**, and O. Hernandez-Gomez. 2022. Life stage and proximity to roads shape the skin microbiota of eastern newts (Notophthalmus viridescens). **Environmental Microbiology** 24(9):3954-3965. https://doi.org/10.1111/1462-2920.15986. *IF: 4.8*
44. *Shidemantle, G., ⁺J. Blackwood, ⁺K. Horn, *I. Velasquez, ⁺E. Ronan, B. Reinke, and **J. Hua**. 2022. The morphological effects of artificial light at night on amphibian predators and prey are masked at the community level. **Environmental Pollution** 308: 119604. *IF: 11.7*
43. *DiGiacopo, D. G., & **J. Hua.** 2022. The effects of novel leaf litter deposition on competitive, predator–prey and host–parasite interactions of American toad larvae. **Aquatic Ecology** 56: 59-73**.** https://doi.org/10.1007/s10452-021-09893-y. *IF: 2.0*
42. *Shidemantle, G., *N. Buss, & **J. Hua.** 2021. Are glucocorticoids good indicators of disturbance across populations that exhibit cryptic variation in contaminant tolerance? **Animal Conservation** 25: 273-284. https://doi.org/10.1111/acv.12737. ***Top 10 most cited papers.*** *IF: 3.4*
41. *Buss, N., ⁺B. Sander, and **J. Hua**. 2021. Effects of polyester microplastic fiber contamination on amphibian-trematode interactions**. Environmental Toxicology and Chemistry** 41:869–879. *IF: 3.8*

Publications prior to arrival at UW–Madison:

2021

40. Gabor, C., S. Kivlin, **J**. **Hua,** N. Bickford, M. Burford Reiskind, and T. Wright. 2021. Understanding organismal capacity to respond to anthropogenic change: Barriers and solutions. **Integrative and Comparative Biology.** *IF: 2.7*
39. *Buss, N., L. Swierk, and **J. Hua**. 2021. Amphibian breeding phenology influences offspring size and response to a common wetland contaminant**. Frontiers in Zoology** 18:31. *IF: 2.9*
38. Billet, L., *V. Wuerthner, **J. Hua,** R. Relyea, and J.T. Hoverman. 2021. Population-level variation in infection outcomes not influenced by pesticide exposure in larval wood frogs (Rana sylvatica). **Freshwater Biology** 00:1-13. *IF: 3.1*
37. Jones, D., **J. Hua,** B. Mattes, R.D. Cothran, J.T. Hoverman, and R.A. Relyea. 2021. Predator- and competitor-induced responses in amphibian populations that evolved different levels of pesticide tolerance. **Ecological Applications** 00: e02305. *IF: 5.1*

Pre-tenure publications:

2020

36. Billet, L., *V. Wuerthner, **J. Hua,** R. Relyea, and J.T. Hoverman. 2020. Timing and order of exposure to two echinostome species affect patterns of infection in larval amphibians. **Parasitology** 147(13):1515-1523.
35. *Buss, N., K.N. Nelson, **J. Hua,** and R.A. Relyea. 2020. Effects of different roadway deicing salts on host-parasite interactions: The importance of salt type. **Environmental Pollution** 266: 115244.
34. *DiGiacopo, D.G. and **J. Hua.** 2020. Evaluating the fitness consequences of plasticity in tolerance to pesticides. **Ecology and Evolution** 10: 4448-4456.
33. Meindl, G.A., ^N. Schleissmann, +B. Sander, ^M. Lam, ^W. Parker, ^C. Fitzgerald, ^R. Oltmer, and **J. Hua**. 2020. Exposure to metals (Ca, K, Mn) and road salt (NaCl) differentially affect development and survival in two model amphibians. **Chemistry and Ecology** 36: 1-11.

2019

32. *Wuerthner, V., O. Hernández-Gómez, and **J. Hua**. 2019. Amphibian skin microbiota response to variable housing conditions and experimental treatment across space and time. **Journal of Herpetology** 53(4):324-335.
31. Hernández-Gómez, O., S.J.A. Kimble, **J. Hua**, *V.P. Wuerthner, D.K. Jones, B.M. Mattes, R.D. Cothran, R.A. Relyea, G.A. Meindl, and J.T. Hoverman. 2019. Local adaptation of the MHC class IIβ gene in populations of wood frogs (*Lithobates sylvaticus*) correlates with proximity to agriculture. **Infection, Genetics and Evolution: Journal of Molecular Epidemiology and Evolutionary Genetics in Infectious Diseases** 73:197–204.
30. +May, D., *G. Shidemantle, +Q. Melnick-Kelley, +K. Crane, and **J. Hua**. 2019. The effect of intensified illuminance and artificial light at night on fitness and susceptibility to abiotic and biotic stressors. **Environmental Pollution** 251:600–608.
29. Hernández-Gómez, O., *V. Wuerthner, and **J. Hua**. 2019. Amphibian host and skin microbiota response to a common agricultural antimicrobial and internal parasite. **Microbial Ecology** 79:175-191.
28. *Buss, N., +M. Wersebe, and **J. Hua**. 2019. Direct and indirect effects of a common cyanobacterial toxin on amphibian-trematode dynamics. **Chemosphere** 220:731–737.
27. +Wersebe, M., +P. Blackwood, +Y. T. Guo, +J. Jaeger, +D. May, G. Meindl, +S. N. Ryan, +V. Wong, and **J. Hua.** 2019. The effects of different cold-temperature regimes on development, growth, and susceptibility to an abiotic and biotic stressor. **Ecology and Evolution** 9:3355–3366.
26. *DiGiacopo, D. G., G. A. Meindl, +S. Ryan, +J. Jaeger, +M. Wersebe, ^A. Martin, ^S. A. Robinson, ^G. Graham, ^A. R. Palmer, ^A. Setteducate, ^I. Murray, K. Prior, and **J. Hua**. 2019. Interaction between invasive plant leaf litter and NaCl on two model amphibians. **Biological Invasions** 21:391–403.
25. **Hua, J**., and R. Relyea. 2019. The effect of a common pyrethroid insecticide on wetland communities. **Environmental Research Communications** 1:015003.
24. *Wuerthner, V. P., +J. Jaeger, ^P. S. Garramone, ^C. O. Loomis, ^Y. Pecheny, ^R. Reynolds, ^L. Deluna, ^S. Klein, ^M. Lam, **J. Hua,** and G.A. Meindl. 2019. Inducible pesticide tolerance in *Daphnia pulex* influenced by resource availability. **Ecology and Evolution** 9:1182–1190.

2018

23. ⁺McLauchlin, B. and **J. Hua**. 2018. Gemma Jones visits Nuthatch Hollow: A Wetland Adventure. Children's book – LuLu publishing funded by Schumann Foundation.
22. Miles, J. C., **J. Hua,** M. S. Sepulveda, C. H. Krupke, and J.T. Hoverman. 2017. Effects of clothianidin on aquatic communities: Evaluating the impacts of lethal and sublethal exposure to neonicotinoids. **PLOS ONE** 12:e0174171.
21. *Buss, N., and **J. Hua.** 2018. Parasite susceptibility in an amphibian host is modified by salinization and predators. **Environmental Pollution** 236:754–763.

2017

20. **Hua, J.,** *V. P. Wuerthner, D. K. Jones, B. Mattes, R. D. Cothran, R. A. Relyea, and J.T. Hoverman. 2017. Evolved pesticide tolerance influences susceptibility to parasites in amphibians. **Evolutionary Applications** 10:802–812. ***Top 20 most downloaded papers.***
19. *Wuerthner, V.P., **J. Hua,** & J.T. Hoverman. 2017. The benefits of coinfection: Trematodes alter disease outcomes associated with virus infection. **Journal of Animal Ecology** 86: 921-931.
18. ⁺McLauchlin, B. and **J. Hua.** 2017. Impact of the arts on public perception, comprehension, retention of scientific research. **Alpenglow: Undergraduate Journal of Research and Creative Activity** 3: 1-19.
17. Gervasi, S.S., P.W. Bradley, **J. Hua,** R.A. Relyea, and A.R. Blaustein. 2017. Linking ecology and epidemiology to understand predictors of multi-host responses to an emerging pathogen, the amphibian chytrid fungus. **PLoS ONE 12(1):** e0167882. ***Top 10% most cited papers.***

2016

16. **Hua, J.**, N. *Buss, J. Kim, S. Orlofsky and J.T. Hoverman. 2016. Population-specific toxicity of six insecticides to the trematode *Echinoparyphium* sp. **Parasitology** 143: 542-550.
15. Jones, D.K., **J. Hua,** and Relyea R.A. 2016. Interactive effects of endosulfan and predators on aquatic communities. **Freshwater Science** 35:152-163.

2015

14. **Hua, J.**, D.K. Jones, R.D. Cothran, B.M. Mattes, R.A. Relyea, and J.T. Hoverman. 2015. Tolerance to insecticide depends on distance to agriculture and novelty of insecticide. **Environmental Pollution** 206:53-63**.**
13. **Hua, J.,** D.K. Jones, R.D. Cothran, B.M. Mattes, R.A. Relyea, and J.T. Hoverman. 2015. Contribution of phenotypic plasticity to the evolution of insecticides resistance in *Lithobates sylvaticus*. **Evolutionary Applications** 8:586-596**.**
12. Buck, J.C., **J. Hua,** T.D. Nguyen, J. Urbina, R.J. Bendis, W.R. Brogan, A.B. Stoler, A.R. Blaustein, and R.A. Relyea. 2015. Effects of pesticide mixtures on host-pathogen dynamics of the amphibian chytrid fungus. **PLoS ONE** 10(7):e0132832**.**
11. Bradley, P.W., S.S. Gervasi, **J. Hua,** R.D. Cothran, R.A. Relyea, D.H. Olson, and A.R. Blaustein. 2015. Differences in sensitivity to (Bd) infection across ten populations of wood frog. **Conservation Biology** 5:1347-1356**.**

2009-2014

10. **Hua, J.** and R.A. Relyea. 2014. Chemical cocktails in aquatic ecosystems: Pesticide effects on resistance and resilience. **Environmental Pollution** 189: 18– 26.
9. **Hua, J.,** D.K. Jones, and R.A. Relyea. 2014. Induced tolerance from a sublethal insecticide leads to cross-tolerance to other insecticides. **Environmental Science and Technology** 48: 4078– 4085.
8. **Hua, J.,** N.I. Morehouse, and R.A. Relyea. 2013. Pesticide tolerance in amphibians: induced tolerance in susceptible populations, constitutive tolerance in tolerant populations. **Evolutionary Applications** 6: 1028 – 1040.
7. **Hua, J.** and B.A. Pierce. 2013. Lethal and sublethal effects of salinity on three common Texas amphibians. **Copeia** 3: 562 – 566.
6. **Hua, J.,** R.D. Cothran, A.B. Stoler, and R.A. Relyea. 2013. Cross resistance in amphibians: Wood frog (*Lithobates sylvatica*) mortality when exposed to three insecticides with a common mode of action. **Environmental Toxicology and Chemistry** 32: 932-936.

5. Gervasi, S.S., J. Urbina, **J. Hua,** T. Chestnut, R.A. Relyea, and A.R. Blaustein. 2013. Experimental evidence for differential susceptibility to the amphibian chytrid fungus (*Batrachochytrium dendrobatidis*) in the American bullfrog (*Lithobates catesbeianus*). **Ecohealth** 10:166-171.
4. **Hua, J.** and R.A. Relyea. 2012. East Coast versus West Coast: Effects of an insecticide in communities containing different amphibian assemblages. **Freshwater Science**: 31: 787-799.
3. Searle, C.L., S.S. Gervasi, **J. Hua,** J.I. Hammond, R.A. Relyea, D.H. Olson, and A.R. Blaustein. 2011. Differential host susceptibility to *Batrachochytrium dendrobatidis*, an emerging amphibian pathogen. **Conservation Biology** 25: 965-974.
2. Griffin, E.A., R.J. Bendis, N. Brouwer**, J. Hua,** M. Koski, G.A. Meindl, and W.P. Carson. 2011. Review of: Tropical rain forest ecology, diversity, and conservation. Ghazoul, J., and D. Sheil. **Plant Sciences Bulletin** 57:71-73.
1. Brogan, W.R., A.N. Hale, C.D. Heckel, **J. Hua,** A. Montesinos, A.R. Rohde, H.M. Shaffery, A.B. Stoler, M. Wolfe, T. Ashman, and W.P. Carson. 2009. Review of positive interactions and interdependence in plant communities, by R.M. Callaway. **Plant Science Bulletin** 55: 125-126.

PRESS / POPULAR PRESS COVERAGE OF RESEARCH

2025	**Better Homes and Gardens** (May 20) 4 Expert-Approved Tips for Attracting Frogs and Toads to Your Garden. https://www.bhg.com/how-to-attract-frogs-and-toads-11724214
	International Union for Conservation of Nature (2025 Frog Log issue)**.** Using visual art to raise awareness of amphibian conservation.
	Milwaukee Sentinel (January 14) Wisconsin waters have a road salt problem. Here's what to know, and how to help. https://www.jsonline.com/story/news/local/2025/01/14/why-wisconsins-road-salt-problem-is-so-important-and-how-to-help/77413233007/
2024	**People Places Planet Podcast**. (May 28). Science to the People: Engaging Communities in Wetlands Restoration. https://share.transistor.fm/s/fafed89f
	Wisconsin Public Radio. (March 13). The Larry Meiller Show
	The Babblery Podcast. (February 18). The Science of Connection: Global Women in Herpetology.
2023	**Integrative and Comparative Biology** (March 23)- Art in Bio Features undergraduate Kathleen Lu! https://integrativeandcomparativebiology.wordpress.com/2023/03/17/art-in-bio-features-undergraduate-student-kathleen-lu/
2021	**Binghamton University** (July 29)- False spring: Climate change may erode frogs' ability to withstand salt pollution. https://www.binghamton.edu/news/story/3189/false-spring-climate-change-may-erode-frogs-ability-to-withstand-salt-pollution
	Binghamton University (April 9)- In the water: Research investigates impact of microplastics on frog parasites. https://www.binghamton.edu/news/story/2993/in-the-water-research-investigates-impact-of-microplastics-on-frog-parasites
	Binghamton University (March 22)- Biodiversity and adaption https://www.binghamton.edu/news/story/2930/biodiversity-and-adaption-jessica-hua-receives-nsf-career-award
2019	**Binghamton Magazine** (Sept 24)- Once upon a parasite: Binghamton scientist ensures kids learn interplay of toxicology, ecology and evolution https://www.binghamton.edu/news/story/2006/once-upon-a-parasite
2019	**Science Daily** (May 28)- Light at night is harmful for amphibians, new research shows https://www.sciencedaily.com/releases/2019/05/190528095246.htm
	Earth.com (Feb 20)- Cold temperature variability: An overlooked effect of climate change https://www.earth.com/news/cold-temperature-variability-climate-change/
2018	**Science Daily** (Oct 23)- Invasive species in an ecosystem harm native organisms but aid other invasive species https://www.sciencedaily.com/releases/2018/10/181023130513.htm

2017	**Wildlife Society** (Sept 15)- Pesticides may affect how frogs handle other threats. http://wildlife.org/pesticides-may-affect-how-frogs-handle-other-threats/
	Science Daily (July 17)- Amphibians can become tolerant to pesticides, but at a cost. https://www.sciencedaily.com/releases/2017/07/170717151043.htm
2016	**Science Daily** (April 4)- Common pesticides kill amphibian parasites https://www.sciencedaily.com/releases/2016/04/160404153048.htm
2015	**Nature News** (Aug 18)- Frogs mount speedy defence against pesticide threat
	OnEarth- Natural Resources Defense Council (Sept 8)- Resistance movement- Pesticide pollution actually creates toxin-tolerant frogs—to a point.
2013	**Discovery News** (Aug 1)- *Pesticide Pollution Creates Toxin-Tolerant Tadpoles.*
	FrogLog (July- Issue number 107, Volume 21, Number 3, p 66)
	Science Daily- (May 1). *Amphibians living close to farm fields are more resistant to common insecticides.*
2010	**Today's Wildlife Professional-** *A new tack on toxic research.*
2009	**Smithsonian Institute Film-** *Frog, chemical, water, you*

INVITED SEMINARS

External invitations:

Wisconsin Salt Wise (January 2025)
North Temperate Lakes Long-term Ecological Research Symposium (Jan 2025)
Morpho Institute – Iquitos, Peru (July 2024)
Milwaukee Ecology Center (June 2024)
Swarthmore University – Biology Seminar Series (April 2024)
Purdue University Ecology and Evolution Seminar Series (September 2023)
U.S. Forest Service- (November 2023)
Duquesne University- Department of Biological Sciences Seminar Series (March 2022)
Michigan State- Kellogg Biological Field Station Seminar Series (November 2022)
University of Pittsburgh- Ecology and Evolution Seminar Series (April 2022)
Bowdoin University- Biology Seminar Series (March 2022)
Towson University- Biology Seminar Series (March 2021)
Utah State University- Graduate student invited speaker (Nov 2020)
University of Wisconsin- Department of Forest and Wildlife Ecology Seminar Series (Oct 2020)
University of Oklahoma- Department of Biology Seminar Series (Feb 2020)
University of South Dakota Seminar Series (Oct 2019)
Binghamton Naturalist Club (March 2019)
University of Tennessee- Amphibians and Conservation (April 2018)
Bard College Biology Seminar Series (Nov 2017)
University of Pittsburgh Summer Seminar Series (July 2017)
Cary Institute Seminar Series (March 2017)
Hobart and William Smith College Biology Seminar Series (March 2017)
Cornell University EVO-day (May 2016)
Southwestern University Biology Seminar Series (Jan 2014)
National Institute for Mathematical and Biological Synthesis Investigative Workshop (Nov 2013)
Indiana University of Pennsylvania Seminar Series (Nov 2013)

Internal/General Public Presentations- University of Wisconsin–Madison:

UW Arboretum (April 2024)
The Babblry podcast- Women in Herpetology (Spring 2024)
WISCIENCE's Cellular and Molecular Biology of Stress (CMBS) Summer Research Program (June 2024)
Environmental Law Institute- National Wetlands Award Podcast (May 2024)
Society for the Study of Amphibians and Reptile's Pre-College Scholars program panelist (May 2023)
National Girls Collaborative Project- The Impact of STEM Role Models and Mentors panelist ('23 and '24)
SIGNAL- Black Indigenous and POC development panel for Animal Behavior Society (Spring 2023)
Wisconsin Wetlands Association - Wetland Coffee Break (May 2023)

Friends of Lakeshore Nature Preserve (April 2024)
Friends of Cherokee Marsh (January 2024)
Climate, People, and the Environment (November 2023)
Evolution Seminar Series (October 2023)
Science of Tap (October 2023)
Water @ UW (October 2023)
Fungi Fest @Kemp (July 2023)
Wednesday Nite @ the Lab (April 2023)
Center for Limnology Seminar Series (November 2022)
Center for Ecology and the Environment (November 2022)

Internal Presentations- Binghamton University:

Center for Integrated Watershed Studies (graduate student presentation: April 2019)

Geology Seminar Series (April 2018)

Chesapeake Watershed Cooperative Ecosystem Studies Unit (October 2018)

NIH Bridges Workshop (June 2017)

Geology Seminar Series (October 2016)

Graduate Student Organization Biology Department Symposium (January 2016 and 2017)

Sustainable Communities Colloquium (February 2017)

EVOS (February 2017)

CONFERENCE PRESENTATIONS * Graduate student; +Undergraduate; Purple text = international presentations

2024

Hua Lab Presentations at World Congress of Herpetology. Malaysia. Only lead presenter listed.

Hua, J. **Co-Chaired Session** on "Haunting the Seaside- Integrative biology of Salt Tolerance in Amphibians."

*Hua, J. From the species to ecosystem: Integrating ecological complexity into our understanding of the effects of NaCl on amphibians.

*Dickman, A. Integrating research and education: How salinization and ranavirus interact to alter nutrient cycling.

Gajewski, Z. Establishing temporal and spatial occupancy trends in Wisconsin, USA with 40 years of anuran call survey data.

*Ricci, K. Engaging youth in amphibian biodiversity education through visual narrative.

+Hansen, C. Inspiring interest in amphibian conservation through environmental art.

*Campbell, M. The interactive effects of host variation and environmental variation on disease outcomes in Wood frogs.

ASLO- Madison, WI

Hua, J. Salty parasites: Can salinization modify the role of parasites in nutrient cycling?

2023

Hua Lab Presentations at Society for Integrative and Comparative Biology. Only lead presenter listed.

Hua, J. *Host vs. environmental factors: Which more strongly associates with wood frog microbiota diversity?* Society for Integrative and Comparative Biology.

Hernandez-Gomez, O. *Commonalities in the response of North American salamander skin microbiotas to wildfires and roads*.

Meindl, G. *Course-based undergraduate research: phytoremediation in Cu-polluted aquatic environments.*

Tuthill, B. *Predation, Pesticide and Pathogens: Stressor effects on population, organismal, and genome metrics.*

Ricci, K. *Communicating disease ecology through art: an empirical investigation* Society for Integrative and Comparative Biology.

Velasquez-Gutierrez, I. *Evolutionary responses of bacteria to antibiotics affect their ability to inhibit a fungal pathogen.*

Campbell, M. *Costs of pesticide tolerance influence the effect of habitat structure on amphibian disease outcomes.*

Lu, K. *Impact of art on public perception and student comprehension of disease ecology research.*

Low, E and Chen, C. *Citizen science from the perspective of community members and scientists: case study of an EcoBlitz*.

2021

Hua, J. **Invited: Conference symposium:** From the organismal to biosphere levels: Environmental impacts on the amphibian microbiota. World Microbe Forum (American Society for Microbiology and Federation of European Microbiological Societies). International virtual conference.

*Shidemantle, G., *N. Buss, and J. Hua. 2021. Are glucocorticoids good indicators of wildlife condition across populations that exhibit cryptic variation in contaminant tolerance? Oral Presentation. Society for Integrative and Comparative Biology. Winner of **Best Graduate Student Talk**

[+]Verdi, R., *S. Tredo, and J. Hua. 2021. When you eat matters: The effects of feeding frequency on tadpole growth and susceptibility to enemies. Oral Presentation. Society for Integrative and Comparative Biology.

2020

Hua, J. **Invited: Conference symposium:** Integrating ecotoxicology and art to understand and communicate how human activities influence amphibian disease susceptibility. Oral Presentation. World Congress of Herpetology. Dunedin, New Zealand. Otago University.

2019

Hua, J. **Invited: Conference symposium:** A hierarchical approach for evaluating the effects of NaCl on wetland ecosystems. Oral Presentation. Ecological Society of America. Louisville, KY.

*Buss, N. and J. Hua. The relationship between amphibian biodiversity and disease outcome is modified by NaCl contamination. Oral Presentation. Ecological Society of America. Louisville, KY.

*DiGiacopo, D. and J. Hua. The effects of invasive leaf litter on host-parasite interactions. Oral Presentation. Ecological Society of America. Louisville, KY.

*Wuerthner, V. and J. Hua. Amphibian host and skin microbiota response to a common antimicrobial and internal parasite. Oral Presentation. Ecological Society of America. Louisville, KY.

*Shidemantle, G. and J. Hua. The effect of intensified illuminance and artificial light at night on fitness and susceptibility to abiotic and biotic stressors. Oral Presentation. Ecological Society of America. Louisville, KY.

2018

Hua, J. Effect of different cold-temperature regimes on compensatory larval growth, development, and susceptibility to road salt and parasites in *Lithobates sylvaticus*. Oral Presentation. Joint Meeting of Ichthyologists and Herpetologists. Rochester, NY.

*Buss, N. and J. Hua. The relationship between amphibian biodiversity and disease outcome is modified by NaCl contamination. Oral Presentation. Joint Meeting of Ichthyologists and Herpetologists. Rochester, NY.

*DiGiacopo, D. and J. Hua. Invasive-Invasive facilitation across ecosystems enhanced by a common anthropogenic contaminant. Oral Presentation. Joint Meeting of Ichthyologists and Herpetologists. Rochester, NY.

*Wuerthner, V. and J. Hua. Amphibian host and skin microbiota response to a common antimicrobial and internal parasite. Oral Presentation. Joint Meeting of Ichthyologists and Herpetologists. Rochester, NY.

Hernandez-Gomez, O., S.J.A. Kimble, J. Hua, *V.P. Wuerthner, D.K. Jones, B.M. Mattes, R.D. Cothran, R.A. Relyea, G.A. Meindl, and J.T. Hoverman. Local adaptation of the MHC class IIβ gene influences the susceptibility to a common parasite in amphibians. Oral presentation by Co-author. Rochester, NY. Joint Meeting of Ichthyologists and Herpetologists.

*Buss, N. and J. Hua. The relationship between amphibian biodiversity and disease outcome is modified by NaCl contamination. Biology Graduate Student Organization Symposium. Binghamton, NY. Winner of **Best Graduate Student Talk**

*Shidemantle, G. and J. Hua. The effect of intensified illuminance and artificial light at night on fitness and susceptibility to abiotic and biotic stressors. Oral Presentation. Biology Graduate Student Organization Symposium. Binghamton, NY.

2017

Hua, J. Integrating natural complexity into studies of toxicology. Oral Presentation. Upper Susquehanna Watershed Forum. Binghamton, NY.

Hua, J. Invasive plant litter and road salt interact to facilitate invasive amphibians. Oral Presentation. Ecological Society of America. Portland, OR.

*Buss, N. and J. Hua. Predators modify the effects of NaCl on tadpole susceptibility to a common parasite. Ecological Society of America. Portland, OR.

*DiGiacopo, D. and J. Hua. Costs of tolerance to pesticides in two wetland organisms, *Lithobates sylvaticus* and *Daphnia pulex*. Oral Presentation. Ecological Society of America. Portland, OR.

*Wuerthner, V. and J. Hua. Effects of an antibacterial on disease dynamics in larval amphibians. Oral Presentation. Ecological Society of America. Portland, OR.

*Buss, N. and J. Hua. Predators modify the effects of NaCl on tadpole susceptibility to a common parasite. Ecological Society of America (Mid-Atlantic Chapter). Winner of **Best Graduate Student Talk**

*DiGiacopo, D. and J. Hua. Cost of evolved pesticide tolerance in the wood frog, *Lithobates sylvaticus*. New York State Wetland Forum. Lathum, NY.

*Buss, N and J. Hua. Predators modify the effects of NaCl on tadpole susceptibility to a common parasite. Biology Graduate Student Organization Symposium. Binghamton, NY

*DiGiacopo, D and J. Hua. The effects of a low-concentration antibacterial on aquatic communities. Biology Graduate Student Organization Symposium. Binghamton, NY. Winner of **Best Graduate Student Talk**

*Wuerthner, V and J. Hua. Binghamton, NY. Effects of an antibacterial on disease dynamics in larval amphibians. Biology Graduate Student Organization Symposium. Binghamton, NY.

Hua, J. Inducible pesticide tolerance in *Daphnia pulex* influenced by resource availability. Oral Presentation. Biology Graduate Student Organization Symposium. Binghamton, NY.

2016

Hua, J. Ecotoxicology: Integrating evolution and art to address priority actions identified in the new Amphibian Conservation Action Plan. 8th World Congress of Herpetology- Hangzhou, China**.**

Hua, J. Amphibian susceptibility to trematodes and ranavirus is associated with agricultural land use. Ecology and Evolution of Infectious Disease (EEID) conference. Ithaca, NY.

*DiGiacopo, D and J. Hua. Can evolutionary responses to pesticides influence trematode choice in an amphibian host? Ecology and Evolution of Infectious Disease (EEID) conference. Ithaca, NY.

*Buss, N and J. Hua. Population-specific toxicity of six insecticides to the trematode *Echinoparyphium* sp. Ecology and Evolution of Infectious Disease (EEID) conference. Ithaca, NY.

*Wuerthner, V. and J. Hua. The benefits of coinfection: trematodes alter disease outcomes associated with virus infection in amphibian communities. Ecology and Evolution of Infectious Disease (EEID) conference. Ithaca, NY.

Hua, J. and R. Relyea. Insecticide tolerance in wood frogs influence host-parasite interactions. Oral Presentation. Ecological Society of America. Baltimore, MD.

*DiGiacopo, D and J. Hua. Ecological consequences of evolutionary strategies in freshwater aquatic communities. Oral Presentation. Biology Graduate Student Organization Symposium. Binghamton, NY.

Hua, J. Binghamton, NY. Integrating ecological and evolutionary perspectives into toxicology. Oral Presentation. Biology Graduate Student Organization Symposium. Binghamton, NY.

Conference poster presentation with undergraduate student as lead author: †Undergrad; *Graduate

2019

[+]May, D., *G. Shidemantle, [+]Q. Melnick-Kelley, [+]K. Crane, and J. Hua. 2019. The effect of intensified illuminance and artificial light at night on fitness and susceptibility to abiotic and biotic stressors. Research Days. Binghamton, NY.

2018

[+] McLauchlin, B and J. Hua. The contribution of art to science communication. Research Days. Binghamton, NY.

[+]Jaeger, J, *D. DiGiacopo, G. Meindl, and J. Hua. Invasive plant litter and road salt interact to facilitate invasive amphibians. Poster presentation. Research Days. Binghamton, NY.

[+]Wersebe, M, *N. Buss, and J. Hua. Direct and indirect effects of a common cyanobacterial toxin on amphibian-trematode dynamics? Poster presentation. Research Days 2018. Binghamton, NY.

[+]Blackwood, P, *N. Buss, and J. Hua. The effect of temperature on tadpole plasticity to NaCl and susceptibly to parasites. Research Days. Binghamton, NY.

2017

[+]Jaeger, J, G. Meindl, and J. Hua. Inducible pesticide tolerance in *Daphnia pulex* influenced by resource availability. Poster presentation. Ecological Society of America. Portland, OR.

[+]Wersebe, M and J. Hua. Can low concentrations of agricultural antimicrobials alter aquatic community dynamics? Poster presentation. Ecological Society of America. Portland, OR.

[+]Ryan, S and J. Hua. Invasive plant litter and road salt interact to facilitate invasive amphibians. Three Rivers Evolutionary Conference. Pittsburgh, PA.

[+]Blackwood, P, *N. Buss, and J. Hua. The effect of temperature on tadpole plasticity to NaCl and susceptibly to parasites. Three Rivers Evolutionary Conference. Pittsburgh, PA.

[+]Jaeger, J., G. Meindl, *V. Wuerthner, J. Hua. Plasticity and food: how does resource limitation influence rapid pesticide tolerance in *Daphnia.* Three Rivers Evolutionary Conference. Pittsburgh, PA.

[+]McLauchlin, B and J. Hua. Tadpoles, Trematodes, and Toxins, Oh my! Research Days 2017. Binghamton, NY.

[+]Jaeger, J., G. Meindl, *V. Wuerthner, J. Hua. Plasticity and food: how does resource limitation influence rapid pesticide tolerance in *Daphnia.* Research Days. Binghamton, NY.

[+]Wersebe, M., *D. DiGiacopo, *V. Wuerthner, J. Hua. Agricultural antibiotics: The effect of an understudied micropollutant. Research Days. Binghamton, NY.

[+]Garnaat, L., [+]B. McLauchlin, and J. Hua. Where the wetlands end: A scientific art exhibit. Research Days. Binghamton, NY.

2016

[+]Jaeger, J., G. Meindl, *V. Wuerthner, J. Hua. Plasticity and food: how does resource limitation influence rapid pesticide tolerance in *Daphnia. Poster Presentation.* Research Days. Binghamton, NY.

[+]McLauchlin, B and J. Hua. Tadpoles, trematodes, and toxins, oh my! *Poster Presentation.* Research Days. Binghamton, NY.

TEACHING

University of Wisconsin

Fall 2025	FWE 375 First Year Interest Groups- Environment, Pollutants, and You- 20 students (expected).
Spring 2025	FWE 599 Capstone- 8 students- Community Engaged Course.
Fall 2024	FWE 375 First Year Interest Groups - Environment, Pollutants, and You- 20 students
Fall 2023	FWE 599 Capstone- 7 students- Community Engaged- UniverCity Program
	https://ecals.cals.wisc.edu/2024/05/13/forest-and-wildlife-ecology-students-support-eau-claire-countys-efforts-to-protect-lake-health/
Spring 2023	FWE 375 Ecology, Pollutants, and You- 7 students

Binghamton University

Spring 2022	Ecology, Pollutants, and You- 25 students

Fall 2021	**No teaching:** Family leave
Spring 2021*	**Ecology** (BIO 355)- 174 students (Virtual)
Fall 2020*	**Ecology** (BIO 355)- 180 students (Virtual)
	Topics in Ecotoxicology (BIO 480/ BIO 580)- 29 students (Virtual)
Spring 2020*	**Topics in Ecotoxicology** (BIO 480/ BIO 580)- 29 students (Hybrid)
Fall 2019	**Freshwater Ecology** BIO 461/ ENVI 481- 21 students
Spring 2019	**Topics in Ecotoxicology** (BIO 480/ BIO 580)- 29 students
Fall 2018	**No teaching:** Family leave
Spring 2018	**No teaching:** Research leave
Fall 2017	**Ecology** (BIO 355)- 170 students
Spring 2017	**Ecology** (BIO 355)- 100 students
Fall 2016	**Topics in Ecotoxicology** (BIO 480/BIO 580)- 25 students
Spring 2016	**Ecology** (BIO 355)- 80 students
Fall 2015	**Topics in Ecotoxicology** (BIO 480/BIO 580)- 19 students

**Shift to virtual teaching due to COVID-19*

Purdue University

2014	**Natural Resource Planning** (FNR 408)- 70 students

MENTORING

Current PhD students	Kyra Ricci (4th year - *NSF GRFP recipient*), Isabela Velasquez-Gutierrez (3rd year - *NSF GRFP recipient*), Eve Milusich (2nd year), and Mary Campbell (2nd year 2023- *NSF GRFP honorable mention*)
Postdoctoral Fellows	Dr. Bryon Tuthill, Dr. Zach Gajewski, Dr. Becca Honeywell
Visiting Scholar	Dr. Katarzyna Affek (2021-2022)- Home institution :University of Warsaw
Research Associates	Alivia Arredondo, Alexis Cox, Gigi Diekelman
Undergraduates	**Independent studies:** Isabel Brunner (REU 2025**),** Mason Polenchek (NSF GRFP awardee), Yoyo Shi and Jack Vaughn, Diana Villagomez (NSF REU 2024), Tabatha LeeKeenan (NSF REU 2024), Isabelle Relyea (NSF REU 2024), Kayla Holman (Freshwaters @UW SROP), Lindsey Keller (summer intern), Chloe Hansen (summer intern), Qais Stovall (Biological Interactions Summer Research Program 2023 & 2024), Paris Thompson (NSF REU 2023), Thomas Pierce (Freshwater@UW SROP), Kathleen Lu (NSF REU), Cathy Chen (NSF REU), Emily Low, Skylar Lai (NSF REU), Jurnee Blackwood (NSF REU), Isabela Gutierrez, Mary Campbell, Kelsey Horn, Emily Ronan, Rachel Verdi, Dyllan May, Kelly Crane, Dai Bui**,** Brianna Sander**,** Jared Jaeger, Benjamin McLauchlin, Matthew Wersebe, Paradyse Blackwood (*NSF GRFP recipient*), Sean Ryan, Lily Garnaat, Marina Carbi, Ying Guo, Vivian Wong, Apurva Singh, Sydney Tredo, Christina Jacobs, Emma Glembo, Kathleen Lu, and Nora Hines. **Research assistants:** Shreya Menon, Abigail Kress, Corinne Fischer, Wyatt Parker, Dyllon Leather, Khiem Chau, Reginald Benard, Arona Bender, Lydia Fletcher, Jeffery Bagg, and Koa Wong **Bridges to Baccalaureate program:** Princess Figueroa, Kim Roach, Michael Quarshie, Stephen Latham, and Anda Ochi

Graduate committees	***Current:*** Paul Chambon (Purdue University), Samantha Tracy (Yale University), Erin Brosnan (University of Central Florida), Olivia Biasetti (Purdue University), Elizabeth Emch (UW–Madison- Limnology), Kimberlie Vera (UW–Madison FWE), Rebecca Chandross (UW–Madison FWE), Amy Munes (UW–Madison FWE) Jessica Briggs (UW–Madison FMS), Jeremy Abels (UW–Madison), ***Past:*** Paradyse Blackwood (Purdue University), Amanda Bryant (Texas State University), Kaitlin Campbell (University of South Dakota), Jesse Miles (Purdue University), Joseph Ankrom (Binghamton University), Theresa Kadish (Binghamton University), Dylan Jones (Binghamton University), Alexandra Martin (Binghamton University), Janelle Talavera (Binghamton University), Carmela Buono (Binghamton University), and Henry Fandel (Binghamton University)
Former grad students	Dr. Devin DiGiacopo (2020), Dr. Vanessa Wuerthner (2020), Dr. Grascen Shidemantle and Dr. Nicholas Buss (2021). Quentin Melnick-Kelley (4+1 program: 2021), Sydney Tredo (Masters- 2022).

WISCONSIN IDEA COMMUNITY ENGAGEMENT EVENTS/PRESENTATIONS

2025

Friends of Amphibians: Hua lab lead: Mary Campbell

Community Science Program Training Workshops (November and March).

Amigos de los Anfibios Project: Hua lab leads: Isabela Velasquez, Diana Vera, and Alivia Arredondo

Vera Court Neighborhood Center- Series of 3 Spanish language amphibian workshops.

Manoomin Rural Partnership Initiative Project: Hua lab leads: Gigi Diekelman

Great Lakes Indian Fish & Wildlife Commission (GLIFWC) meeting presentation (May 9)

Wild Rice Chiefs Committee presentation (June 18)

1854 Treaty Authority Board meeting presentation (June 26)

Wisconsin Tribal Conservation Advisory Council (WTCAC) presentation (June 26)

1854 Treaty Authority Board meeting presentation (June 27)

FDL Natural Resources Department meeting presentation (June 27)

Individual meetings with Elders

2024

Amigos de los Anfibios Project:

Vera Court Neighborhood Center- Planning Meeting (August 19)

Verona School District - Representative Meeting (September 23)

Verona High School - Hispanic heritage event (September 29)

WI EcoLatinos - Planning meeting with (October 14)

Vera Court Neighborhood Center - Family - Hua Lab Amphibian Night (November 19)

Lincoln Elementary School - Planning meeting (December 11)

Manoomin Rural Partnership Initiative Project: Hua lab leads: Gigi Diekelman

Friends of Amphibians. (November and March). Community Science Program Training Workshops

RPI Tribal Sovereignty Training (October 16).

Voigt Task Force Meeting, Lac Courte Oreilles. (October 3).

Our Shared Waters: Wiigwaasi Jiimaan, (September 26).

USGS peatlands mercury sampling. (September 19).

Gibiskisingminis azhedibinaweziwin opening event. (September 18).

UW-Superior x LSNERR Rice Camp. (September 17).

1854 Rice Camp. (September 7).
St. Louis River Area of Concern Coordinators meeting. (August 28).
Wild Rice Committee fall meeting. (August 21).
WI Tribal Conservation Advisory Council (WTCAC). (August 8).
Tribal Food Producer Academy. (July 30).
Spotted Knapweed Pull of WI Point. (July 25).
Mikwendaagoziwag Sandy Lake Memorial gathering. (July 24).
Lake Superior Day Barker Island. (July 21).
Mashkiiziibii Lake Superior Day. (July 19).
Healing Circle Run. (July 17).
Arboretum Indigenous Research Garden work party. (July 9).
Ishkode ceremony. (June 28).
River walk paddle Barker's Island. (June 26).
St. Louis River Habitat Work Group. (June 20).
SLRE Manoomin restoration site visits. (June 7).
Wild Rice Committee spring meeting. (May 30).
Voigt Task Force Committee meeting. (May 2).
Spring Manoomin Partnership meeting. (May 1).
Voigt Task Force Meeting, Lac du Flambeau. (March 7).
Ooga Symposium, Cloquet, MN. (February 29).

Microplastic, Pollutants, and Tribal Community Project- Hua lab leads: Alivia Arredondo and Alexis Cox.

Red Cliff Community Roadside Clean Up Work w TNR and connect (May 20)
WIDNR and St Louis River Estuary Manoomin Enclosure Collaboration (May 28)
Bayfield Alternative Education- community connect classroom (June 4)
Nimaawanii'idimin Giiwitaashkodeng Nisogaabokwe Melonee Montano and Evan Larson cultural fire event (June 24)
Red Cliff Community Member Meetings (Jun 6, June 28, July 29)
Red Cliff Pow Wow Cultural and community event (July 4)
Gaa-Miskwaabikaang Anishinaabemowin Gabeshiwin Language camp- (July 8)
Healing Circle Run Self-healing and connecting 10 Ojibwe Nations in upper WI, MI, & MN (July 17)
Mino Bimaadiziiwin Gitigaanin Red Cliff Tribal Farm volunteer and connect (July 17)
Board of Commissioners (July 23)
Mikwendaagoziwag Ceremony Sandy Lake Ceremony gathering (July 24)
Makadeike Manoomin Gabeshiwin Trout Lake Rice Camp- cultural and community event (Sept 5)
Fireside Conversations: Ishkode Nisogaabokwe Melonee Montano and Evan Larson (Sept 25)
Ma'iingan Conservation Presentation Red Cliff Wolf Conservation (Sept 26)
Mino Bimaadiziiwin Gitigaanin Red Cliff Tribal Farm volunteer and connect (Sept 26)
1854 Treaty Days Madeline Island exercise treaty rights and cultural events (Sept 29)
Shifting Seasons Summit (Sept 30)
Tribal Relations Training Collaborate, connect, and learn from various Tribes (Oct 16)
CHE Colloquium Cultural History. Talked with Bill Quackenbush, Ho Chunk Nation (Dec 11)

2023

Friends of Amphibians: Hua lab lead: Mary Campbell

Community Science Program Training Workshops (November and March).

National Girls Collaborative Project

Panelist for "The Impact of STEM Role Models and Mentors"

Animal Behavior Society

Black, Indigenous, and POC Grad student and professor development panel

2022

Friends of Amphibians: Hua lab lead: Mary Campbell

Community Science Program. Launch meeting (November)

OUTREACH PROGRAMS

2022	**Friends of Amphibians Community Science Initiative** https://jhua13.wixsite.com/friends-of-amphibian
2015	**Wild Waders Program**, a multifaceted program aimed at communicating research to the local community. We work in collaboration with the local K-12 schools, WSKG, and Acheive NY, to (1) introduce community member to wetland organisms, (2) identify contemporary issues endangering wetlands (3) demonstrate how research can contribute to conservation.

AFFILIATIONS

2022	University of Wisconsin- Center for Limnology
2024-present	University of Wisconsin- Center for Ecology and the Environment
2022	University of Wisconsin- Freshwater and Marine Science Program
2015- 2022	Center for Integrated Watershed Studies (Organized Research Center) Binghamton University
2015- 2020	Sustainable Communities TAE – Binghamton University

SERVICE

Reviewer

National Science Foundation (2025)- in person.

Anna Grant Birge proposal reviews for Freshwater and Marine Sciences Program (2024)

Scimed GRS application review (2024)

National Wetland Awards (2023)

National Science Foundation (2022)- in person.

National Science Foundation (2020)- ad hoc.

National Science Foundation (2017)- ad hoc.

National Science Foundation (2018)- in person.

Herpetologist League proposals (Spring 2017)

Journal Peer Reviewer (Fall 2015- Summer 2019):

Ecology Letters, Proceedings of the Royal Society B: Biological Sciences, Environmental Pollution, OIKOS, U.S. Environmental Protection Agency, Copeia, Archives of Environmental Contamination and Toxicology, Ecotoxicology and Environmental Safety, American Midland Naturalist, Austral Ecology, Current Zoology, Environmental Science Pollution Research, Journal of Applied Ecology, Chemosphere, Canadian Journal of Zoology, Science of the Total Environment, Conservation Biology, Frontiers in Ecology, Environmental Toxicology and Chemistry, Science of the Total Environment, Ecotoxicology, Ecological Applications, Journal of Animal Ecology, and Perspectives in Ecology and Conservation

Science Advisory Roles

2024	Tenure package evaluations (4 total- Virginia Tech, Bowdoin University, Swarthmore University, and University of Vermont)
2017	Ecotoxicology Co-Facilitator - International Union for Conservation of Nature (IUCN)- Species Survival Commission- Amphibian Specialist Group
2016- 2022	WSKG/ PBS Science Advisory Committee
2016- 2021	High School Student Research Mentor

2015- 2022	Ask a Scientist contributions
2015- 2021	Upper Susquehanna Coalition member
2016	Friends of Recreation Conservation, and Environment Stewardship (FORCES)

Departmental Service

2025	Budget Committee
2024	Space Committee
2024	Post-tenure reviews (2)
2023	Faculty Hiring Committee
2023	Targets of Opportunity Faculty Hiring committee
2022	Schorger Committee
2022	Executive Committee
2020- 2021	Diversity, Equity, and Inclusion committee
2020- 2021	Advisory and teaching assignment committees
2018- 2021	Greenhouse Committee
2017- 2020	Undergraduate Committee
2016- 2017	Budget Committee
2015- 2016	Ecology of Environmental Change New Faculty Search
2016, ’17, ‘18	Administered Ecology, Wetland, and Disease ecology concentration exams

Public Service

2024-present	Consultant- Adaptive Restoration. Pond restoration project, Middleton WI.
2023-present	Mentor- NSF BRITE- National Girls Collaborative Project
2016,’21,’23	Hua Lab art and science exhibits
2017	Binghamton University- Day of Service at Nuthatch Hollow
2017	U.S. Army Reserve- Employer Support of the Guard and Reserve event
2015- 2016	Achieve NY- Day Habilitation Program

University Service

2023	Reviewer, Bouchet Honors Society Selection Committee
2019	Environmental Studies: Ecotoxicology Search Committee
2019	Environmental Studies: Visiting Assistant Professor Search Committee
2018	Broader Impacts Task Force
2018	Environmental Studies Task Force
2016- 2018	Harpur College Curriculum Committee
2016- 2017	Nuthatch Hollow Living Building Lab Development
2016, 2017	Student Support Services Summer Program- College Experience Faculty Panel
2016, 2017	Harpur College New Faculty Orientation Panels
2017	Center for Integrated Watershed Studies Self Study
2017	Bridges Workshop on Ecotoxicology and Disease Ecology
2016	Nuthatch Hollow Regenerative Workshop- Hua Lab Wild Waders exhibit
2016	Binghamton Days at the Mall- Hua Lab Wild Waders exhibit
2016	Graduate committee of Scholars Academic Job Search Panel
2015, 2016	Biochemistry Club Faculty Mixer
2015- 2018	Faculty Fellow- Dickinson and College of the Woods communities

PROFESSIONAL SOCIETIES

2024	Association for the Sciences of Limnology and Oceanography

2010	American Society of Ichthyologists and Herpetologists
2008	Ecological Society of America
2020- 2021	Society for Integrative and Comparative Biology
2010- 2021	Society for Freshwater Science