

Jamin G. Wieringa

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Evolution, Ecology and Organismal Biology – The Ohio State University
318 W. 12th Ave., 300 Aronoff Laboratory, Columbus, OH, 43210

Positions and Appointments

Research Associate

The Ohio State University	2016 - Present
Central Michigan University	2014 - 2016
Hope College	2011 - 2014

Teaching Associate

The Ohio State University	2016 - Present
Hope College	2011 – 2013

Education

The Ohio State University; Columbus, OH

PhD Candidate in Evolution, Ecology and Organismal Biology; 2016-Present

Advisors: H. Lisle Gibbs and Bryan C. Carstens

Central Michigan University; Mt. Pleasant, MI

M.S. Biology, Conservation Focus; 2014 – 2016

Advisor: Andrew Mahon

Hope College; Holland, MI

B.S. Biology; 2009 - 2013

Advisor: Tom Bultman

Publications

Total Citations to Date: 109; h-index: 2; Average Altmetric Manuscript Score: 6.2

Wieringa, J.G., Carstens, B.C., and Gibbs, H.L. 2021. Predicting migration routes for three species of migratory bats using species distribution models. PeerJ. [*in revision*; submitted 8 Dec 2020, revisions to be submitted 20 Feb 2021]

Wieringa, J.G. 2021. Predicting IUCN Red List categories for bats using machine learning. Journal of Mammalogy. [*submitted 29 Jan 2021*]

Parsons, D.J., Pelletier, T.A., **Wieringa, J.G.**, Duckett, D.J., and Carstens, B.C. 2021. Analysis of biodiversity data suggest that species are hidden in predictable places. Proceedings of the National Academy of Science, USA [to be submitted 20 Feb 2021].

Wieringa, J.G., Nagel, J., Nelson, D.M., Carstens, B.C., and Gibbs, H.L. 2020. Using trace elements to identify the geographic origin of migratory bats. PeerJ e10082.

Wieringa, J.G., Boot, M.R., Dantas-Queiroz, M.V., Duckett, D., Fonseca, E.M., Glon, H., Hamilton, N., Kong, S., Lanna, F.M., Mattingly, K.Z., Parsons, D.J., Smith, M.L., Stone, B.W.,

Thompson, C., Zuo, L., and Carstens, B.C. 2020. Does habitat stability structure intraspecific genetic diversity? It's complicated.... *Frontiers in Biogeography* 12(2).

Monopoli, M.R., **Wieringa, J.G.**, Nagel, J., Nelson, D.M., and Gibbs, H.L. 2020. Sequencing whole mitochondrial genomes to assess the genetic divergence between proposed silver-haired bat (*Lasionycteris noctivagans*) populations. *Mitochondrial DNA Part B* 5(4): 3838-3839.

Wieringa, J.G., Herbst, S.J., Mahon, A.R. 2017. The reproductive viability of Grass Carp, *Ctenopharyngodon idella*, in the western basin of Lake Erie. *Journal of Great Lakes Research*. 43(2): 405-409.

Evans, N. T., Shirey, P. D., **Wieringa, J. G.**, Mahon, A. R., & Lamberti, G. A. 2017. Comparative Cost and Effort of Fish Distribution Detection via Environmental DNA Analysis and Electrofishing. *Fisheries* 42(2): 90–99.

Presentations

Wieringa J.G. 2020. Insights from monthly species distribution models for three species of migratory tree bats. World Bat Twitter Conference 2020.

Wieringa, J.G., Gibbs, H.L. and Carstens, B.C. 2019. Insights from Monthly Species Distribution Models for Three Migratory Bat Species Impacted by Wind Energy. *North American Society for Bat Research*. Presentation. Kalamazoo, MI

Wieringa, J.G., Gibbs, H.L. and Carstens, B.C. 2019. Insights from Monthly Species Distribution Models for Three Migratory Bat Species Impacted by Wind Energy. *Ohio Biodiversity Conservation Partnership*. Presentation. Columbus, OH

Wieringa JG. Lost in the Night: Insights into the Movements of Migratory Tree Bats. 2019. *Hope College*. Invited Seminar. Holland, MI.

Wieringa JG, Carstens, BC, Gibbs, HL. Atmospheric Mercury as a Method of Sourcing Migratory Tree Bats. 2018. *The Wildlife Society Annual Conference*. Presentation. Cleveland, OH.

Wieringa, J.G., Gibbs, H.L., and Carstens, B.C. October 2017. Trace Elements as a Method for Sourcing Migratory Tree Bats. *North American Society for Bat Research*. Presentation. Knoxville, TN.

Wieringa, J.G., Gibbs, H.L., and Carstens, B.C. October 2017. Trace Elements as a Method for Sourcing Migratory Tree Bats. *Student Conference on Conservation Science – New York*. Rapid Talk. New York, NY.

Wieringa, J.G. and Mahon, A.R. January 2016. Evaluation of the Reproductive Status of *Ctenopharyngodon idella* in Western Lake Erie. *Society for Integrative and Comparative Biology*. Poster. Portland, OR.

Bultman, T.L., **Wieringa, J.G.**, Swain, A., and Sullivan, T.J. August 2015. Testing for mechanisms of inducible resistance in endophyte-infected grass. *Ecological Society of America*. Poster. Baltimore, MD.

Wieringa, J.G. and Mahon, A.R. February 2015. Invasive Grass Cap in Lake Erie: Diet and Ploidy. *Institute of Great Lakes Research*. Poster. Mt. Pleasant, MI.

Wieringa, J.G. and Bultman, T. L. November 2012. Role of Plant Damage in Signaling the Production of Alkaloids by an Endophytic Fungus, *Neotybodium*. *West Michigan Regional Undergraduate Science Research Conference*. Poster. Grand Rapids, MI.

Grants, Fellowships, and Awards

The Ohio State Univ	Career Development Grant	2018
The Ohio State Univ	Career Development Grant	2016
Fish and Wildlife Serv	Competitive State Wildlife Grant (contributing author)	2017-Present
Central Michigan Univ	Masters Fellowship	2014-2016
Central Michigan Univ	Grad Biology Student Assoc Research Grant	2015
Hope College	Senior Sigma Xi Award	2013

Teaching Experience

The Ohio State University		
Human Anatomy		2021
Organismal Diversity		2020
Ecology and Evolution of Mammals		2020
Evolution		2017-2018
Biological Sciences: Form, Function, Diversity, and Ecology		2016
Hope College		
Ecology and Evolution		2011-2012

Research Experience

The Ohio State University		
Use biomarkers to source migratory bats		2016-Present
Big-data bat conservation		2020-Present
Modeling bat migration		2019-Present
Simulation of genomes to understand demography		2020-Present
Analyze bat mtDNA and nuclear genomes		2020-Present
Central Michigan University		
Grass carp invasion biology		2014-2016
Environmental DNA		2014-2016
Hope College		
Endophytic fungi interactions with host		2011-2013
Tritrophic interactions		2010-2011

Professional Memberships

American Society of Mammalogists • The Wildlife Society • Ecological Society of America
North American Society for Bat Research • Society for Integrative and Comparative Biology

Academic Service

Reviewer

Molecular Ecology

2017-Present

PeerJ

2020-Present

Leadership and Outreach

The Ohio State Univ	Graduate Student Representative to Faculty Meetings	2019-Present
The Ohio State Univ	Graduate Evol and Ecol Students President	2019-Present
The Ohio State Univ	Undergraduate Mentorship	2018-2020
The Ohio State Univ	Grad Evol and Ecol Students Graduate Studies Chair	2018-2019
The Ohio State Univ	Museum of Biology Open House Event Leader	2018
The Ohio State Univ	Graduate Evol and Ecol Students Seminar Chair	2017-2018
The Ohio State Univ	Museum of Biology Open House Volunteer	2017-2019
Central Michigan Univ	Graduate Biology Student Association Social Chair	2015-2016
Central Michigan Univ	BioBuds Elementary Education Volunteer	2014-2016
Hope College	BBB Honor Society - Alpha Eta Chapter Vice Pres	2011-2012

Skills

Python • R • SLiM • Next-Generation Sequencing • DNA Isolation • Genome Assembly • ArcGIS
Linux • Species Distribution Modeling • Movement Modeling • Machine Learning