

# Jamin G. Wieringa

## Contact

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## Education

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The Ohio State University; Columbus, OH  
PhD Student in Evolution, Ecology and Organismal Biology; 2016-Present  
Advisors: H. Lisle Gibbs and Bryan 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  
Dean's List  
Sigma Xi, senior research award recipient  
Vice President of Alpha Eta Chapter of Beta Beta Beta, National Biological Honor Society

## Research Experience

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### 2014 – 2016 Central Michigan University; Master's Thesis

Assessment of diet, population viability, and location of an invasive grass carp population in the Western Basin of Lake Erie

Advisor: Dr. Andrew Mahon

Research objectives

- Determine the reproductive status of a population in the Michigan water of Lake Erie through the determination of ploidy
- Study the diet composition of grass carp
- Use environmental DNA to determine the current locations of populations in the Western basin
- Work closely with management personnel from the Michigan DNR

# Jamin G. Wieringa

## 2010-2013 Hope College

Effects of alkaloids produced from an endophytic fungus on aphid survival and parasitoid wasp host selection; Lab Volunteer

Advisor: Dr. Thomas Bultman

Research objectives

- Studied the interactions of *Neotyphodium*, aphids, and a parasitic wasp.
- Researched the interactions of alkaloids released by the endophytic fungus and the effect on aphid population, and then aphid selection by parasitoids.
- It was found that the aphid favored feeding on plants with the endophyte since it reduced the rate of parasitism.

Determination of the stimulus that elicits the production of alkaloids by an endophytic fungus;

Independent Research

Advisor: Dr. Thomas Bultman

Research Objectives

- Studied the interaction of *Neotyphodium* and *Lolium arundinaceum*.
- Researched the signaling mechanism that *Neotyphodium* reacts to, to increase the production of alkaloids.

## **Publications**

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**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**

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**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.

# Jamin G. Wieringa

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

## **Professional Development**

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### Reviewer

Molecular Ecology 2017

## **Service**

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### Graduate Student Groups

The Ohio State University, Graduate Evolution and Ecology Students

- Seminar Committee Co-chair 2017-Present

Central Michigan University, Biology Graduate Student Association

- Social Chair 2015-2016

## **Professional Associations**

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- American Association for the Advancement of Science
- Society for Integrative and Comparative Biology
- American Society of Mammalogists