

# MARY M. GLOVER

mglover@bowiestate.edu • www.marymglover.com • 574-400-3846

## EDUCATION

---

### **PhD in Biological Sciences**

University of Notre Dame

Dissertation: Speciation in the walnut-infesting *Rhagoletis suavis* species group:  
biogeography, reproductive isolation, and the genomics of speciation

Advisor: Dr. Jeffrey Feder

Dissertation defended: August 2018

Graduation date: January 2019

### **Bachelor of Science in Ecology and Evolutionary Biology**

University of Tennessee, Knoxville

Advisor: Dr. Benjamin Fitzpatrick

Graduation date: May 2012

## TEACHING EXPERIENCE AND HONORS

---

Spring 2019 -

**Adjunct Biology Instructor**

Present

Bowie State University

Bowie, Maryland

Biology 102: Introduction to Biology

Fall 2018

**Adjunct Biology Instructor**

Washington College

Chestertown, Maryland

General Biology Laboratory

Spring 2018

**Teaching Apprentice in Biological Sciences**

University of Notre Dame

Mentor: Kristin Lewis, Associate Teaching Professor

2017 - 2018

**Biology II: Molecules to Ecosystems course design committee**

2017

**Outstanding Graduate Teaching Award**

Kaneb Center for Teaching and Learning

University of Notre Dame

### ***Notre Dame Graduate Teaching assistant***

Fall 2017

Senior TA, General Biology Lab A

Fall 2013-2016

General Biology Lab A

Spring 2015, 2017

General Biology Lab B

Spring 2016

Biostatistics

### ***Undergraduate student mentorship***

I mentored four undergraduate students as research assistants. Two students developed independent projects and presented their results at a research symposium.

Glen McLain (Fall 2015 – Fall 2016), Dung Nguyen (Fall 2016 – Spring 2018), Tony

Molinaro (Fall 2016 – Spring 2018), Adam Chvilicek (Fall 2017 – Spring 2018)

## TEACHING WORKSHOPS AND CLASSES

---

### ***Kaneb Center workshops, The University of Notre Dame***

Spring 2018	Fostering Deep Learning and Creativity
Spring 2018	Design Thinking in a Classroom
Spring 2018	Effective Lecture Strategies
Spring 2018	Writing Effective Multiple Choice Questions
Fall 2017	Teaching Critical Thinking
Fall 2017	<i>Small Teaching</i> Presentation, James Lang
Fall 2017	Enhancing Student Motivation with Authenticity and Caring Actions
Fall 2017	We are ND; Creating Inclusive Spaces
Summer 2017	Teaching and Learning Stem Reading Group
Fall 2014	Mentoring Undergraduate Research in STEM Disciplines

### ***Coursework***

Summer 2017	Designing and Teaching your First Biology or Chemistry Course
-------------	---

### ***Conference***

Fall 2018	A Practical Guide to Teaching and Learning STEM, presented by Richard Felder and Rebecca Brent
-----------	---

## PEER-REVIEWED PUBLICATIONS

---

1. Hood, G.R., T.H.Q. Powell, M.M. Doellman, S.B. Sim, **M.M. Glover**, et al. (2020) Rapid and repeatable host plant shifts drive reproductive isolation following a recent human-mediated introduction of the apple maggot fly, *Rhagoletis pomonella*. *Evolution* 74(1): 156-168.
2. Doellman, M.M., H. Schuler, G. St. Jean, G.R. Hood, S.P. Egan, T.H.Q. Powell, **M.M. Glover**, et al. Geographic and Ecological Dimensions of Host Plant-Associated Genetic Differentiation and Speciation in the *Rhagoletis cingulata* (Diptera: Tephritidae) Sibling Species Group. *Insects* 10(9): 275.
3. Doellman, M.M., G.J. Ragland, G.R. Hood, P.J. Meyers, S.P. Egan, T.H.Q. Powell, P. Lazorchak, **M.M. Glover**, et al. (2019) Genomic differentiation during speciation-with-gene-flow: Comparing geographic and host-related variation in divergent life history adaptation in *Rhagoletis pomonella*. *Genes* 9(5):262
4. St. Jean, Gilbert, G.R. Hood, S.P. Egan, T.H.Q. Powell, H. Schuler, M.M. Doellman, **M.M. Glover**, et al. (2018) Limited genetic evidence for host plant-related differentiation in the Western cherry fruit fly, *Rhagoletis indifferens*. *Entomologia Experimentalis et Applicata* 166 (9): 739-751.
5. **Glover, M.M**, S.P. Egan, G.R. Hood, J. Rull, M. Aluja, and J.L. Feder. (2018) Phylogeography of walnut-infesting *Rhagoletis suavis* (Diptera: Tephritidae) flies. *Insect Systematics and Diversity* 2:1-9.

6. Feder, J.L., G.R. Hood, M.M Doellman, H. Schuler, A. Miller, C. Tait, **M.M Glover**, and P. Meyers. (2017) Speciation, Process of. Reference Module in Life Sciences (LIFE). Elsevier Press.
7. Hood, G.R., **M. Glover**, C. Tait, W.L. Yee, and J.L. Feder. (2014) Detection of an apple-infesting population of *Rhagoletis pomonella* (Diptera: Tephritidae) in the state of Colorado, USA. *Pan-Pacific Entomologist*. 90(1):4-10.
8. Rull, J., M. Aluja, E. Tadeo, L. Guillen, S. Egan, **M. Glover**, and J.L. Feder (2013). Distribution, host plant affiliation, phenology, and phylogeny of walnut-infesting *Rhagoletis* flies (Diptera: Tephritidae) in Mexico. *Biological Journal of the Linnean Society*. 110(4):765-779.
9. Nellas, R., **M.M. Glover**, D. Hamelberg, and T. Shen (2012). High-pressure effects on the dynamics of solvated peptides. *Journal of Chemical Physics* 136(145103):1-9.
10. Yao, J., R.B. Nellas, **M.M. Glover**, and T. Shen. (2011). Stability and Sugar Recognition Ability of Ricin-like Carbohydrate Binding Domains. *Biochemistry* 50(19), 4097-4104.

## PRESENTATIONS

---

- |               |  |
|---------------|--|
| August 2017   | <b>Glover, M.M.</b> and J.L. Feder. Species distributions and the role of species co-occurrence on reproductive isolation in walnut-infesting <i>Rhagoletis</i> flies. <i>Ecological Society of America Annual Meeting</i> . |
| November 2015 | <b>Glover, M.M.</b> and J. L. Feder. Sexual and ecologically based reproductive isolation in the walnut-infesting <i>Rhagoletis suavis</i> species group. <i>Entomological Society of America Annual Conference</i>          |
| March 2011    | <b>Glover, M.M.</b> , J. Yao, R.B. Nellas, and T. Shen. Stability and Sugar Recognition Ability of Ricin-like Carbohydrate Binding Domains. <i>American Chemical Society National Meeting</i> . Anaheim, CA.                 |

## OUTREACH

---

- |             |   |
|-------------|---|
| Spring 2016 | <b>Paradigm Shift Mentor</b><br>University of Notre Dame<br>Mentored high school student in developing research question and presentation |
|-------------|---|

## SELECTED UNDERGRADUATE RESEARCH EXPERIENCE AND AWARDS

---

### *Research Experience*

- |                |  |
|----------------|--|
| Fall 2010-2012 | <b>University of Tennessee Honors Thesis</b><br><i>Adaptation to a novel environment drives female habitat preference, not mate choice</i><br>Advisor: Dr. Benjamin Fitzpatrick.<br>Department of Ecology and Evolutionary Biology, University of Tennessee, Knoxville, TN |
|----------------|--|

- Summer 2011      **NSF REU Recipient**  
*An exploratory study of the effects of a chemosterilant on adult survival, sperm motility, mating behavior and patterns of egg laying in a cricket*  
Advisor: Dr. Jeremy Marshall  
Department of Entomology  
Kansas State University.
- 2009-2011      **Research Assistant**  
Executed molecular dynamic (MD) simulations, performed initial set up of systems, long-scale MD simulations, and analysis.  
Advisor: Dr. Tongye Shen  
Department of Biochemistry, Cellular and Molecular Biology University of Tennessee, Knoxville, TN.  
Center for Molecular Biophysics  
Oak Ridge National Lab, Oak Ridge, TN
- Awards**
- 2012      **Outstanding Undergraduate Award**  
Given to one undergraduate per year  
Ecology and Evolutionary Biology Department  
University of Tennessee, Knoxville, TN
- 2012      **Poster Contest Award Winner**  
Undergraduate Poster Exhibition  
University of Tennessee, Knoxville, TN
- 2011      **Chancellor's Honor Program Research Grant**  
University of Tennessee, Knoxville, TN