

# Kali Mattingly

---

The Ohio State University  
Department of Evolution, Ecology & Organismal Biology  
318 W. 12<sup>th</sup> Avenue  
Columbus, Ohio 43210

mattingly.66@osu.edu  
606-923-7521

---

## Education

PhD in Evolution, Ecology & Organismal Biology 2016 - present  
The Ohio State University, Columbus, Ohio  
Dissertation: The influences of hybridization and polyploidy on biological invasions  
Doctoral advisor: Stephen M. Hovick

MS in Ecology 2016  
SUNY-ESF, Syracuse, New York  
Thesis: Identifying abiotic and biotic factors associated with the threatened plant Leedy's roseroot (*Rhodiola integrifolia* subsp. *leedyi*) at Glenora Cliffs, Glenora, New York  
Thesis advisor: Donald J. Leopold

BA in Biology 2014  
Transylvania University, Lexington, Kentucky  
*magna cum laude*

## Publications

**Mattingly, K. Z.**, R. W. McEwan, R. D. Paratley, S. R. Bray, J. R. Lempke, M. A. Arthur. 2016. Recovery of forest floor diversity after removal of the nonnative invasive plant *Euonymus fortunei*. *Journal of the Torrey Botanical Society* 143(2):103-116.

**Mattingly, K. Z.**, D. J. Leopold. 2018. Habitat indicators of a federally-listed glacial relict plant species restricted to cliffs in the Northern U.S. *Natural Areas Journal*. *In press*.

**Mattingly, K. Z.**, J. J. Wiley, D. J. Leopold. Non-native invasive Japanese knotweed (*Fallopia japonica*) negatively impacts federally-listed Leedy's roseroot (*Rhodiola integrifolia* ssp. *leedyi*) but removal does not equal restoration. Target journal: *Restoration Ecology*. *In preparation*.

**Mattingly, K. Z.**, D. Frevola, K. Kinney, J. Lanterman, T. Pelletier, R. Schwartz, D. Spacht, B. Stucke, S. Hovick. Disconnects between communicated impact and ecological impact in biological invasions. Target journal: *Frontiers in Ecology and the Environment*. *In preparation*.

## Technical Reports

**Mattingly, K. Z.**, D. J. Leopold. 2015. Control of Japanese knotweed (*Fallopia japonica* var. *japonica*) impact on Leedy's roseroot (*Rhodiola integrifolia* ssp. *leedyi*), a federally threatened plant. Final project report to U.S. Fish and Wildlife Service Great Lakes Restoration Initiative, Endangered Species Program. SUNY-ESF, Syracuse, NY. 5 p.

**Mattingly, K. Z.**, D. J. Leopold. 2014. Control of Japanese knotweed (*Fallopia japonica* var. *japonica*) impact on Leedy's roseroot (*Rhodiola integrifolia* ssp. *leedyi*), a federally threatened plant. Interim report to U.S. Fish and Wildlife Service Great Lakes Restoration Initiative, Endangered Species Program. SUNY-ESF, Syracuse, NY. 4 p.

## Conference Presentations

**Mattingly, K. Z.**, R. W. McEwan, R. D. Paratley, S. R. Bray, J. R. Lempke, and M. A. Arthur. Recovery of forest floor diversity after removal of the nonnative invasive plant *Euonymus fortunei*.  
National Conference on Undergraduate Research, Lexington, Kentucky 2014  
Midwest Ecology and Evolution Conference, Dayton, Ohio 2014

**Mattingly, K. Z.**, D. J. Leopold. Habitat indicators of a federally-listed glacial relict plant species restricted to cliffs in the Northern U.S.  
Midwest Ecology and Evolution Conference, Champaign, Illinois 2017

**Mattingly, K. Z.**, D. Frevola, K. Kinney, J. Lanterman, T. Pelletier, R. Schwartz, D. Spacht, B. Stucke, S. Hovick.  
Disconnects between communicated impact and ecological impact in biological invasions.

Ecological Society of America Conference, Portland, Oregon 2017

## Research Funding

Janice Carson Beatley Herbarium Fund (\$1200)	2017
Ohio Invasive Plants Council Research Grant (\$1000)	2016
The Ohio State University Graduate School Fellowship (\$28000)	2016
New York Flora Association Research Award (\$1000)	2015
Edna Bailey Sussman Scholarship with Special Merit (\$7370)	2015
Alpha Omicron Pi Foundation Nu Iota Scholarship (\$2500)	2014
Alpha Lambda Delta National Council Christine Conway Fellowship (\$3000)	2014
NSF Research Experiences for Undergraduates Fellowship (\$5000)	2013
Transylvania University Kenan/Jones Undergraduate Research Grant (\$2000)	2013

## Outreach and Public Service

Communications Committee member, Department of Evolution, Ecology, and Organismal Biology, Ohio State University	2017 - 2018
Contributed blog, "EEOB students experience charismatic creatures of the tropics," Ohio State University Bio Museum Blog, <a href="http://u.osu.edu/biomuseum/">http://u.osu.edu/biomuseum/</a>	2017
McKnight Outdoor Education Center BioBlitz	2017
Clark Reservation State Park BioBlitz	2016
Invited talk, "Federally-listed threatened species Leedy's roseroot," United States Fish and Wildlife Service New York Field Office, Cortland, New York	2016
Contributed essay, "Measuring <i>Rhodiola integrifolia</i> subsp. <i>leedyi</i> microsite," New York Flora Association Newsletter	2016
Invited talk, "Biogeography as Evidence for Evolution," General Biology II, SUNY-ESF	2015
Onondaga Lake Park BioBlitz	2014

## Teaching Experience

*SUNY-ESF, Dept. of Environmental and Forest Biology*

Teaching Assistant, Ecology of Mosses	2016
• Total students worked with: 21; Estimated total student contact hours: 1470	
Teaching Assistant, General Biology II Lecture	2015
• Estimated total students worked with: 50; Estimated total student contact hours: 510	
Teaching Assistant, Diversity of Life I Lab	2014, 2015
• Total students worked with: 53 (2014), 51 (2015); Estimated student contact hours/semester: 2370	

*Transylvania University Writing Center*

Writing Consultant	2012 - 2013
• Estimated total students worked with: 75	

## Mentored Undergraduates

Alex Miller (OSU '18), purple loosestrife SRAP genetic analysis	2017 - present
Nate Hofford (OSU '20), purple loosestrife herbarium morphometrics, ddRADSeq REU	2016 - present
Jackie Reusser (OSU '18), purple loosestrife herbarium morphometrics	2016 - present
Chloe Blaisdell (SUNY-ESF '18), Leedy's roseroot field sampling	2015
Joshua Crane (SUNY-ESF '17), Leedy's roseroot micropropagation	2015

## Trainings

Crustose Lichen Workshop	Ohio Moss and Lichen Association	2017
Teaching Orientation	The Ohio State University	2016
Graduate Colloquium on Teaching	SUNY-ESF	2014
Fern and Fern Allies Workshop	Floracliff Nature Sanctuary	2013