

# Julia I. Chapman

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## EDUCATION

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- 2018 **Ph.D. Biology**, University of Dayton, Dayton, OH  
2012 **M.S. Biology**, University of Dayton, Dayton, OH  
2012 **Geographic Information Systems Certificate**, University of Dayton, Dayton, OH  
2009 **B.S. Plant Biology**, Chemistry minor. Ohio University, Athens, OH

## PUBLICATIONS

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### *Book Chapters:*

- Chapman, J.I.** and R.W. McEwan. 2018. Topography and Vegetation Patterns in an Old-Growth Appalachian Forest: Lucy Braun, You Were Right! In: *Ecology and Recovery of Eastern Old-Growth Forests*, William Keeton and Andrew Barton (eds.), Island Press.

### *Peer-Reviewed Articles:*

16. Maloney, M.E., **J.I. Chapman**, M.J. Kukla, E.C. Rowekamp, and R.W. McEwan. *In Prep.* Impacts of Amur honeysuckle (*Lonicera maackii*) invasion on the herbaceous layer of riparian forests along headwater streams.
15. Buskey, T.M., **J.I. Chapman**, M.E. Maloney, and R.W. McEwan. *In Prep.* Herb-layer dynamics in an old-growth forest: vegetation-environment relationships and response to invasion-related perturbations.
14. Little, M., K. Custer, E.B. Borth, J.I. Chapman, M.J. Kukla, C. Kuminecz, M.E. Maloney, M.J. Woods, and R.W. McEwan. *In Revision.* The influence of riparian invasion by the terrestrial shrub *Lonicera maackii* on aquatic macroinvertebrates in temperate forest headwater streams. *Biological Invasions*, submitted 23 April 2020.
13. Rowekamp, E.C., **J.I. Chapman**, and R.W. McEwan. 2020. Assessing the influence of riparian invasion by the shrub *Lonicera maackii* on terrestrial subsidies to headwater streams. *Acta Oecologia* 105: 103580. doi:10.1016/j.actao.2020.103580
12. Rinehart, E., **J. Chapman**, and Y. Sun. 2020. The Production of Listeriolysin O and Subsequent Intracellular Infections by *Listeria monocytogenes* are Regulated by Exogenous Short Chain Fatty Acid Mixtures. *Toxins* 12(4): 218. doi:10.3390/toxins12040218
11. **Chapman, J.I.** and R.W. McEwan. 2018. The role of environmental filtering in structuring Appalachian tree communities: Topographic influences on functional diversity are mediated through soil characteristics. *Forests* 9: 19. doi:10.3390/f9010019
10. **Chapman, J.I.** and R.W. McEwan. 2016. Thirty Years of Compositional Change in an Old-Growth Temperate Forest: The Role of Topographic Gradients in Oak-Maple Dynamics. *PLOS ONE* 11(7): e0160238
9. Bauman, J.M., C. Cochran, **J.I. Chapman**, and K.E. Gilland. 2015. Plant community development following restoration treatments on a legacy reclaimed mine site. *Ecological Engineering* 83: 521–528.

8. Bauman, J.M., C. Cochran, **J.I. Chapman**, and K.E. Gilland. 2015. Reproduction potential and natural canker infection on backcrossed chestnut trees. *Journal of the American Society of Mining and Reclamation* 4: 16–32.
7. **Chapman, J.I.**, A.L. Myers, A.J. Burky, and R.W. McEwan. 2015. Edge effects, invasion and the spatial pattern of herb-layer biodiversity in an old-growth deciduous forest fragment. *Natural Areas Journal* 35(3): 439–451.
6. Davis, J.G., **J.I. Chapman**, S-Y. Wu, and R.W. McEwan. 2015. Spatiotemporal dynamics of coarse woody debris in an old-growth temperate deciduous forest. *Forest Science* 61: 680–688.
5. Goins, S.M., **J.I. Chapman**, and R.W. McEwan. 2013. Composition shifts, disturbance and canopy-accession strategy in an old-growth forest of southwestern Ohio, USA. *Natural Areas Journal* 33: 384–394.
4. **Chapman, J.I.** and R.W. McEwan. 2013. Spatiotemporal dynamics of  $\alpha$  and  $\beta$  diversity across topographic gradients in the herbaceous layer of an old-growth deciduous forest. *Oikos* 122: 1679–1686.
3. **Chapman, J.I.** and R.W. McEwan. 2012. Tree regeneration ecology of an old-growth central Appalachian forest: Diversity, temporal dynamics, and disturbance response. *Journal of the Torrey Botanical Society* 139: 194–205.
2. **Chapman, J.I.**, K.L. Perry, and R.W. McEwan. 2012. Changing flora of an old-growth mesophytic forest: undetected taxa and the first appearance of invasive species. *Journal of the Torrey Botanical Society* 139: 206–210.
1. **Chapman, J.I.**, P.D. Cantino, and B.C. McCarthy. 2012. Seed production in garlic mustard (*Alliaria petiolata*) prevented by some methods of manual removal. *Natural Areas Journal* 32: 305–309.

## TEACHING EXPERIENCE

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- 2019–present **Lecturer**, University of Wisconsin-Stout, Menomonie, WI
- Introduction to Geographic Information Systems (GEOG 251/L)
  - Science, the Environment, and Sustainability (BIO 111/L, Gen Ed)
  - Conservation Biology (BIO 730, Graduate Online)
- 2019 **Tutor**, Huntington Learning Center, Stillwater, MN
- ACT Test Preparation (English, Reading, Science, Math)
  - Subject Tutoring in Biology, Chemistry, Physics, and Math
- 2014–2018 **Graduate Teaching Assistant**, University of Dayton, Dayton, OH
- Ecology Lab (BIO 310L)
  - Sustainable Biosphere (BIO 359H) **\*Instructor of record; Honors course**
  - Invertebrate Zoology Lab (BIO 461L)
  - Marine Biology (BIO 320L)
  - Analysis of Biological Data (BIO 496/596)
  - Concepts of Biology Laboratory I: Cell and Molecular Biology (BIO 151L)
  - Concepts of Biology Laboratory II: Evolution and Ecology (BIO 152L)
- 2012–2014 **Laboratory Instructor**, University of Dayton, Dayton, OH
- Concepts of Biology Laboratory I: Cell and Molecular Biology (BIO 151L)

- Concepts of Biology Laboratory II: Evolution and Ecology (BIO 152L)

- 2010–2012 **Graduate Teaching Assistant**, University of Dayton, Dayton, OH
- General Biology Lab (BIO 101L)
  - Concepts of Biology Laboratory I: Cell and Molecular Biology (BIO 151L)
  - Concepts of Biology Laboratory II: Evolution and Ecology (BIO 152L)
  - Plant Diversity and Ecology Lab (BIO 407L)

## PROFESSIONAL EXPERIENCE

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- 2019–present **Program Director**, M.S. Sustainable Management, UW-Stout
- 2018–2019 **Freelance Copy Editor**, American Journal Experts
- 2010–2018 **Herbarium Curator**, University of Dayton
- 2014–2015 **Editorial Assistant**, Journal of the Torrey Botanical Society
- 2012–2014 **Research Technician**, Lab of Dr. Ryan W. McEwan, University of Dayton, Dayton, OH
- 2012–2013 **Contractor, USDA Forest Service**, Northern Research Station, Vinton Furnace State Experimental Forest, McArthur, OH
- 2009–2010 **Staff, Kids On Campus** after-school program, Chauncey Elementary School, Chauncey, OH
- Summer 2009 **Contractor, USDA Forest Service**, Northern Research Station, Vinton Furnace State Experimental Forest, McArthur, OH
- Summer 2007 **GS-3 Biological Science Aid, USDA Forest Service**, Wayne National Forest, Ironton Ranger District, Ironton, OH

## GRANTS AND FELLOWSHIPS

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- 2018 Ohio Chapter of the American Chestnut Foundation Grant, \$987
- 2017 Botanical Society of America, Planting Science Digging Deeper Fellowship, \$2,000
- 2017 University of Dayton Graduate Student Summer Fellowship, \$5,350
- 2016 Botanical Society of America, Planting Science Digging Deeper Fellowship, \$2,000
- 2016 University of Dayton Graduate Student Summer Fellowship, \$5,350
- 2015 University of Dayton Graduate Student Summer Fellowship, \$5,350
- 2012 University of Dayton Graduate Student Summer Fellowship, \$2,400
- 2011 University of Dayton Graduate Student Summer Fellowship, \$2,400

### *Listed as a project mentor:*

- 2018 University of Dayton Stander Undergraduate Fellowship, \$969.18
- 2017 University of Dayton Stander Undergraduate Fellowship, \$400

## AWARDS AND HONORS

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- 2017 Outstanding Teaching Assistant Award, University of Dayton Graduate Student Showcase, \$300
- 2016 Award of Excellence for Outstanding Teaching of Advanced Biology Laboratory Classes, Dept. Biology, University of Dayton
- 2012 John J. Comer Graduate Ecology Research Award, Dept. Biology, University of Dayton

- 2012 Gerald L. Willis Award of Excellence for Outstanding Teaching of Introductory Biology Laboratory Classes, Dept. Biology, University of Dayton
- 2009 Young Botanist Award, Botanical Society of America
- 2009 Outstanding Contractor of the Month, Vinton Furnace State Experimental Forest
- 2009 Senior Thomas and Edna Wolfe Scholarship, Dept. Environmental and Plant Biology, Ohio University
- 2008 The Professor Arthur Blickle Botany Scholarship for Women, Dept. Environmental and Plant Biology, Ohio University
- 2007 Plant Biology Scholarship, Dept. Environmental and Plant Biology, Ohio University
- 2005–2009 Ohio University Dean’s List
- 2005–2008 Robert C. Byrd Scholarship

### CONFERENCE PRESENTATIONS

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43. Gilland, K.E., **J.I. Chapman**. 2020. Experimental treatments yield novel communities after 10 years of mined land recovery. Ecological Society of America, 105<sup>th</sup> Annual Meeting, Salt Lake City, UT, August 2–7, 2020.
42. McEwan, R.W., **J.I. Chapman**. 2019. Multiple interacting drivers of long-term dynamics in an old-growth Appalachian forest. Ecological Society of America, Louisville, KY, August 11–16, 2019.
41. Gilland, K.E., **J.I. Chapman**. 2019. Spontaneous regeneration and active intervention yield novel communities a decade after FRA reclamation at Jockey Hollow WMA. ARRI – Mined Land Reforestation Conference, Cambridge, OH, July 24–25, 2019.
40. Adams, J.I., E.B. Borth, T.M. Buskey, **J.I. Chapman**, M.J. Kukla, C.M. Kuminecz, M.N. Little, M.E. Maloney, J.M. Murphy, T.M. Sparbanie, R.W. McEwan. 2019. Aquatic macroinvertebrate density in headwater streams with varying intensities of riparian Amur honeysuckle (*Lonicera maackii*) invasion. University of Dayton Brother Joseph W. Stander Symposium, Dayton, OH, April 24, 2019.
39. Allen, L.O., **J.I. Chapman**, A.N. Dix, P.R. Maricocchi, M. Muratore, S.L. Neanover, E.M. Rinehart, N.C. Wallace, Y.Y. Sun. 2019. Age-dependent effects of short chain fatty acids on bacterial burden in vivo after oral infections with *Listeria monocytogenes* strains 10403S and 07PF0776. University of Dayton Brother Joseph W. Stander Symposium, Dayton, OH, April 24, 2019. [poster]
38. McEwan, R.W., **J.I. Chapman**. 2018. The role of environmental filters in long-term oak-maple dynamics in Appalachian old-growth forest. Ecological Society of America, New Orleans, LA, August 5–10, 2018.
37. **Chapman, J.I.**, T.M. Buskey, M.J. Kukla, C. Kuminecz, R.W. McEwan. 2018. Tree regeneration and herbaceous community responses to emerald ash borer-induced *Fraxinus* mortality and altered *Alliaria petiolata* abundance in an old-growth forest remnant. Botanical Society of America, Botany 2018, Rochester MN, July 21–25, 2018.
36. **Chapman, J.I.** and R.W. McEwan. 2018. Long-term tree community dynamics of an old-growth Appalachian forest. William H. Martin Appalachian Research Symposium, Lilley Cornett Woods Appalachian Research Station, Hallie, KY, June 5, 2018. [poster]
35. Rinehart, E., N. Steinbicker, N. Wallace, K. Breitenbach, **J. Chapman**, C. Prather, Y. Sun. 2018. Listeriolysin O production is regulated by SCFAs and oxygen in *Listeria*

- monocytogenes*. American Society for Microbiology Microbe, Atlanta GA, June 7–11, 2018. [poster]
34. **Chapman, J.I.**, R.W. McEwan, and J-M. Chiang. 2018. Increasing taxonomic and functional diversity are linked with temporal stability of aboveground biomass and coarse woody productivity in a subtropical Taiwan forest. University of Dayton Brother Joseph W. Stander Symposium, Dayton, OH, April 18, 2018.
  33. Little, M.N., J.I. Adams, C. Kuminecz, M.J. Kukla, M.E. Maloney, J. Murphy, T.M. Buskey, T.M. Sparbanie, E.B. Borth, S.D. Mahoney, K.W. Custer, **J.I. Chapman**, and R.W. McEwan. 2018. Aquatic macroinvertebrate density in headwater streams with varying intensities of riparian Amur honeysuckle (*Lonicera maackii*) invasion. University of Dayton Brother Joseph W. Stander Symposium, Dayton, OH, April 18, 2018. [poster]
  32. Sparbanie, T.M., M.J. Kukla, C.G. Montemurri, **J.I. Chapman**, and R.W. McEwan. 2018. The vascular flora of Bill Yeck Park: Supporting the conservation of local biodiversity. University of Dayton Brother Joseph W. Stander Symposium, Dayton, OH, April 18, 2018.
  31. Buskey, T.M., **J.I. Chapman**, and R.W. McEwan. 2018. Changes in herbaceous plant diversity in an old-growth Ohio forest before and after Emerald Ash Borer invasion. University of Dayton Brother Joseph W. Stander Symposium, Dayton, OH, April 18, 2018. [poster]
  30. Kuminecz, C., M.J. Kukla, **J.I. Chapman**, and R.W. McEwan. 2018. Monitoring Long-term Changes in Forest Composition in Response to Emerald Ash Borer Infestation at Drew Woods State Nature Preserve. University of Dayton Brother Joseph W. Stander Symposium, Dayton, OH, April 18, 2018. [poster]
  29. Little, M.N., J.I. Adams, C. Kuminecz, M.J. Kukla, M.E. Maloney, J. Murphy, T.M. Buskey, T.M. Sparbanie, E.B. Borth, S.D. Mahoney, K.W. Custer, **J.I. Chapman**, and R.W. McEwan. 2018. Aquatic macroinvertebrate density in headwater streams with varying intensities of riparian Amur honeysuckle (*Lonicera maackii*) invasion. Miami Valley Ecology Lunch, University of Dayton, Dayton, OH, April 14, 2018. [poster]
  28. Sparbanie, T.M., M.J. Kukla, C.G. Montemurri, **J.I. Chapman**, and R.W. McEwan. 2018. The vascular flora of Bill Yeck Park: Supporting the conservation of local biodiversity. Miami Valley Ecology Lunch, University of Dayton, Dayton, OH, April 14, 2018. [poster]
  27. Buskey, T.M., **J.I. Chapman**, and R.W. McEwan. 2018. Changes in herbaceous plant diversity in an old-growth Ohio forest before and after Emerald Ash Borer invasion. Miami Valley Ecology Lunch, University of Dayton, Dayton, OH, April 14, 2018. [poster]
  26. Kuminecz, C., M.J. Kukla, **J.I. Chapman**, and R.W. McEwan. 2018. Monitoring Long-term Changes in Forest Composition in Response to Emerald Ash Borer Infestation at Drew Woods State Nature Preserve. Miami Valley Ecology Lunch, University of Dayton, Dayton, OH, April 14, 2018. [poster]
  25. Sparbanie, T.M., M.J. Kukla, **J.I. Chapman**, and R.W. McEwan. 2017. Bill Yeck Park vascular flora species list. National Council on Science and the Environment: Student Sustainability Leaders: Networking Our Future, Dayton, OH, September 23, 2017. [poster]
  24. Kuminecz, C., M.J. Kukla, T. Buskey, **J.I. Chapman**, and R.W. McEwan. 2017. Monitoring Long-term Changes in Forest Composition in Response to Emerald Ash Borer Infestation at Drew Woods State Nature Preserve. National Council on Science and the Environment: Student Sustainability Leaders: Networking Our Future, Dayton, OH, September 23, 2017. [poster]

23. Kukla, M.J., M.E Maloney, **J.I. Chapman**, E.C. Rowekamp, and R.W. McEwan. 2017. Herbaceous layer species richness along forested headwater streams is negatively impacted by Amur honeysuckle (*Lonicera maackii*) Invasion. National Council on Science and the Environment: Student Sustainability Leaders: Networking Our Future, Dayton, OH, September 23, 2017. [poster]
22. **Chapman, J.I.**, R.W. McEwan, and J-M. Chiang. 2017. Temporal stability of woody biomass production enhanced with increasing diversity in a subtropical Taiwan forest. Ecological Society of America, Portland OR, August 6–11, 2017.
21. **Chapman, J.I.**, R.W. McEwan, and J-M. Chiang. 2017. Temporal stability of woody aboveground biomass is enhanced with increasing diversity in a subtropical Taiwan forest. University of Dayton Brother Joseph W. Stander Symposium, Dayton, OH, April 5, 2017.
20. Kukla, M.J., M.E Maloney, **J.I. Chapman**, E.C. Rowekamp and R.W. McEwan. 2017. Herbaceous layer species richness along forested headwater streams is negatively impacted by Amur honeysuckle (*Lonicera maackii*) Invasion. University of Dayton Brother Joseph W. Stander Symposium, Dayton, OH, April 5, 2017. [poster]
19. Kukla, M.J., M.E Maloney, **J.I. Chapman**, E.C. Rowekamp and R.W. McEwan. 2017. Herbaceous layer species richness along forested headwater streams is negatively impacted by Amur honeysuckle (*Lonicera maackii*) Invasion. Ohio Natural History Conference, Columbus, OH, February 25, 2017. [poster]
18. **Chapman, J.I.**, and R.W. McEwan. 2016. Patterns of functional and phylogenetic diversity through time and space in an old-growth temperate forest. Miami Valley Ecology Lunch, University of Dayton, Dayton OH, November 19, 2016.
17. **Chapman, J.I.**, and R.W. McEwan. 2016. Tree Functional and Phylogenetic Diversity Across Topographic Gradients in an Old-growth Appalachian Forest. Botanical Society of America, Botany 2016, Savannah, GA, July 30–August 3, 2016.
16. Gilland, K.E., **J.I. Chapman**, and M. Dickey. 2016. Understory Plant Community Response to Edge Type and *Lonicera maackii* Removal in an Isolated Urban Woodlot. Botanical Society of America, Botany 2016, Savannah, GA, July 30–August 3, 2016.
15. **Chapman, J.I.** and R.W. McEwan. Tree Community Phylogenetic Diversity Varies with Topography in an Old-growth Appalachian Forest. 2016. University of Dayton Brother Joseph W. Stander Symposium, Dayton, OH, April 20, 2016.
14. **Chapman, J.I.** and R.W. McEwan. Topographic Regulation of Phylogenetic Diversity within Tree Communities in an Old-growth Appalachian Forest. 2016. Midwest Ecology and Evolution Conference, Oxford, OH. March 19–20, 2016.
13. Dickey, M., K.E. Gilland, and **J.I. Chapman**. Understory Plant Community Response to Edge Type and *Lonicera maackii* Removal in an Isolated Urban Woodlot. 2016. Ohio Natural History Conference, Columbus, OH, February 27, 2016. [poster]
12. **Chapman, J.I.**, and R.W. McEwan. Changes in Spatial Distribution of Dominant Overstory Taxa in an Old-growth Forest Over 30 Years. 2015. Ecological Society of America 100<sup>th</sup> Annual Meeting, Baltimore, MD, August 9–14, 2015. [poster]
11. **Chapman, J.I.**, and R.W. McEwan. Changes in Relative Abundance and Spatial Distribution of Dominant Overstory Taxa in an Old-growth Forest Over 30 Years. 2015. Botanical Society of America, Botany 2015, Edmonton, AB, July 25–29, 2015. [poster]
10. **Chapman, J.I.**, and R.W. McEwan. Changes in Relative Abundance and Spatial Distribution of Dominant Overstory Taxa in an Old-growth Forest Over 30 Years. 2015. University of Dayton Brother Joseph W. Stander Symposium, Dayton, OH, April 15, 2015. [poster]

9. **Chapman, J.I.**, A.L. Myers, A.J. Burky, and R.W. McEwan. 2014. Edge effects, invasion and the spatial pattern of herb-layer biodiversity in an old-growth deciduous forest fragment. Midwest Ecology and Evolution Conference, Dayton, OH, March 1–2, 2014.
8. Price (Myers), A.L., R.W. McEwan, and **J.I. Chapman**. 2013. Spatial and temporal patterns of herb-layer biodiversity in an old-growth temperate deciduous forest. University of Dayton Brother Joseph W. Stander Symposium, Dayton, OH, April 17, 2013. [poster]
7. **Chapman, J.I.**, and R.W. McEwan. 2012. Beta diversity dynamics across topographic gradients in the herbaceous layer of an old-growth deciduous forest. Ecological Society of America, 97<sup>th</sup> Annual Meeting, Portland, OR, August 5–10, 2012.
6. Goins, S.M., **J.I. Chapman**, and R.W. McEwan. 2012. Dynamics and disturbance in an old-growth forest in western Ohio. Ecological Society of America, 97<sup>th</sup> Annual Meeting, Portland, OR, August 5–10, 2012.
5. **Chapman, J.I.** and R.W. McEwan. 2012. Spatial and temporal dynamics of herbaceous layer alpha and beta diversity across topographic gradients. The University of Kentucky Center for Ecology, Evolution and Behavior 2012 Spring Research Symposium, Lexington, KY, May 10, 2012.
4. **Chapman, J.I.** and R.W. McEwan. 2012. Beta diversity dynamics across topographic gradients in the herbaceous layer of an old-growth deciduous forest. University of Dayton Brother Joseph W. Stander Symposium, Dayton, OH, April 18, 2012.
3. **Chapman, J.I.**, R.W. McEwan, and S-Y. Wu. 2012. Topography influences spatial and temporal dynamics of the herbaceous layer in an old-growth deciduous forest. University of Dayton Brother Joseph W. Stander Symposium, Dayton, OH, April 18, 2012. [poster]
2. **Chapman, J.I.** and R.W. McEwan. 2011. Tree regeneration ecology of an old-growth central Appalachian forest: Diversity, temporal dynamics, and disturbance response. Botanical Society of America, Botany 2011, St. Louis, MO, July 9–13, 2011. [poster]
1. **Chapman, J.I.**, P.D. Cantino, and B.C. McCarthy. 2010. Effects of manual removal methods on seed production in garlic mustard (*Alliaria petiolata*). Ecological Society of America, 95<sup>th</sup> Annual Meeting, Pittsburgh, PA, August 1–6, 2010. [poster]

## **UNDERGRADUATE MENTORING**

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- 2018 Undergraduates Michelle Little and Jenea Adams – Aquatic macroinvertebrate community structure in headwater streams invaded by Amur honeysuckle (*Lonicera maackii*)
- 2017 Undergraduate Taylor Sparbanie – Honors project conducting a floristic survey of Bill Yeck Park, Centerville OH. Project funded by the University of Dayton Stander Undergraduate Fellowship, \$969.18
- 2017 Undergraduates Mitchell Kukla and Corey Kuminecz – Resurvey of the tree community in Drew Woods State Nature Preserve after emerald ash borer invasion. Project funded by the University of Dayton Stander Undergraduate Fellowship, \$400
- 2017 Undergraduate Taylor Buskey – Honors project studying patterns of herbaceous layer diversity before and after emerald ash borer invasion in Drew Woods State Nature Preserve.
- 2017 Undergraduate Celia Montemurri – Project studying the variation in herbaceous plant communities under differing densities of Amur honeysuckle.

- 2016 Undergraduates Mitchell Kukla and Meg Maloney – Herbaceous layer diversity along forested headwater streams with varying densities of Amur honeysuckle (*Lonicera maackii*) near Dayton, OH.
- 2013 Undergraduate Kathryn Schaber – Population dynamics of black cohosh (*Actaea racemosa*), in collaboration with Dr. Matthew Albrecht of the Missouri Botanical Garden.
- 2012 Undergraduate Amy Myers – Phenology and spatial patterns of herbaceous layer diversity within Drew Woods State Nature Preserve, Darke County, OH.

## INVITED PRESENTATIONS

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- The importance of old-growth forests as ecological baselines in a human-dominated world. Friends of the Red Cedar State Trail annual meeting, Menomonie, WI. November 11, 2019.
- Seeing the Forest for the Trees: Successional Dynamics and Patterns of Diversity in Old-growth Forests. Columbus State Community College, Columbus, OH. November 16, 2018.
- Seeing the Forest for the Trees: Successional Dynamics and Patterns of Diversity in Old-growth Forests. Columbus State Community College, Columbus, OH. April 12, 2018.
- Spatiotemporal dynamics and diversity of temperate and tropical forests. Ecoseminar, Wright State University, Dayton, OH. December 6, 2017.
- Graduate school and student research in sustainability STEM fields, Panelist. Student Sustainability Leaders: Networking Our Future, University of Dayton, September 23, 2017.
- Herbaceous layer species richness along forested headwater streams is negatively impacted by Amur honeysuckle (*Lonicera maackii*) Invasion. Faculty and Staff Collaboration Open House, University of Dayton, Dayton, OH. September 7, 2019. [poster]
- Life as a Plant Ecologist Describing Patterns of Diversity in Eastern North American Forests. Dean's Summer Fellowship Lunch Club. University of Dayton, Dayton, OH. June 2, 2017.
- Long-term Tree Community Dynamics of an Old-growth Appalachian Forest. 2017 Graduate Student Showcase, University of Dayton, Dayton OH, April 5, 2017. [poster]
- Seeing the Forest for the Trees (and Herbs). Café Sci, Cox Arboretum, Five Rivers MetroParks, Dayton OH, July 6, 2016.
- Diversity in Eastern North American Deciduous Forests and Life as a Graduate Student in Science. Piqua High School, Piqua OH, December 12, 2014.

## PROFESSIONAL SERVICE

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- Master Plant Science Mentoring Team, PlantingScience.org, 2014–2018
- Kennedy Union Green Roof Committee, University of Dayton, 2016–2017
- Reviewer, Ecological Restoration, 2019
- Reviewer, Applied Vegetation Science, 2013–2016
- Reviewer, Journal of Vegetation Science, 2015
- Reviewer, Forests, 2014
- Reviewer, International Journal of Agricultural Sciences, 2013

## PROFESSIONAL DEVELOPMENT

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- Early Career STEM Educators Workshop, UW System Women and Science Program, Wisconsin Dells, WI, October 24–25, 2019.



- Digging Deeper Workshop, Cohort 2, BSCS, Colorado Springs, CO, July 9–14, 2017
- Green Dot Training, University of Dayton, Dayton, OH, March 2, 2017
- LGBTQ+ Ally Training, University of Dayton, Dayton, OH, November 17, 2016
- Digging Deeper Workshop, Cohort 1, BSCS, Colorado Springs, CO, July 10–13, 2016

## **PROFESSIONAL MEMBERSHIPS**

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Ecological Society of America, 2010–present  
 Botanical Society of America, 2009–present

## **OUTREACH AND SERVICE**

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- Lower Chippewa Invasives Partnership volunteer, 2019–present
- The Prairie Enthusiasts volunteer, 2019–present
- Trout Unlimited habitat restoration volunteer, 2019–present
- PlantingScience.org, mentor, 2014–2019
- Campus tree mapping project, Hanley Sustainability Institute, University of Dayton, 2017
- Herpetology Educational Program for children, Dayton Metro Libraries, 2017
- American Physiology Society PhUn week volunteer, 2015
- Plant the Promise Middletown OH bulb planting day, 2015
- Keep Middletown Beautiful Earth Day volunteer, 2015
- Middletown Earth Day Festival, nature tour leader, 2013
- Society for Improvement of Conditions for Strays, Paw Partners, 2013–2014
- Stebbins High School Science Fair judge, 2013.
- Five Rivers MetroParks volunteer, tree seedling planting, 2012
- Athens Forest Stewardship Club volunteer, invasive plant removal, 2006–2010
- Athens Conservancy volunteer, trail maintenance and habitat preservation, 2008–2010
- American Chestnut Foundation, Ohio Chapter, chestnut planting day, 2009–2010
- Ohio University Plant Biology Department Recruitment Day, 2008
- Ohio University Women in Science and Engineering Day, 2007–2009
- Ohio Program for Intensive English Conversation Partners Program, 2009

## **SPECIALIZED SKILLS**

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- R Statistical Software
- Geographic Information Systems: ArcMap, ArcGIS Online, Google Earth Pro, Avenza
- CID 110 Plant Canopy Imager
- NexSens Data T-Logger
- Plant taxonomy (species level)
- Herbarium specimen collection, preparation, and preservation
- Freshwater macroinvertebrate taxonomy (order level)
- Plant propagation and greenhouse horticulture
- Permanent slide preparation of whole-mount and thick-sectioned invertebrates