

Kayla I. Perry

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Research Statement: Insects are biologically diverse and can be used as models to develop and understand ecological principles. I use insect communities to study the role of natural and anthropogenic disturbances and disturbance interactions in the maintenance of species diversity.

EDUCATION

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| 2016 | Ph.D., Entomology
Ohio State University, Columbus, OH
Advisor: Dr. Daniel A Herms |
| 2010 | B.S., Biology
Baldwin-Wallace College, Berea, OH
Advisors: Dr. Michael N Melampy and Dr. R Chris Stanton |

PROFESSIONAL EXPERIENCE

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| August 2022 | Assistant Professor , Department of Entomology, The Ohio State University, Wooster, Ohio. |
| 2021 – 2022 | Postdoctoral Research Associate , Department of Biological Sciences, Kent State University, Kent, Ohio. |
| 2018 – 2021 | USDA NIFA Postdoctoral Fellow , Department of Entomology, The Ohio State University, Columbus, Ohio. |
| 2017 – 2018 | Postdoctoral Researcher , Department of Entomology, The Ohio State University, Columbus, Ohio. |
| 2011 – 2016 | Graduate Research Associate , Department of Entomology, The Ohio State University, Wooster, Ohio. |
| 2010 – 2011 | Graduate Teaching Associate , Center for Life Sciences Education, The Ohio State University, Columbus, Ohio. |
| 2009 | Teaching Assistant , Department of Biology, Baldwin-Wallace College, Berea, Ohio. |
| 2009 | Research Experience for Undergraduates , Rocky Mountain Biological Laboratory, Gothic, Colorado. |

2008 – 2009	Research Assistant , Department of Biology, Baldwin-Wallace College, Berea, Ohio.
2008	Environmental Services Intern , Water Quality and Industrial Surveillance Department, Northeast Ohio Regional Sewer District, Cleveland, Ohio.
2007 – 2010	Biology Tutor , Department of Biology, Baldwin-Wallace College, Berea, Ohio.
2006 – 2010	Laboratory Assistant , Department of Biology, Baldwin-Wallace College, Berea, Ohio.

RESEARCH EXPERIENCE

2021 – 2022	Kent State University, Kent, Ohio Department of Biological Sciences, Advisor: Dr. Christie Bahlai
2020 – 2021	The Ohio State University, Columbus, Ohio Department of Entomology, Advisor: Dr. James P Strange Mechanisms of bumble bee community assembly along an urban-rural gradient
2017 – 2020	The Ohio State University, Columbus, Ohio Department of Entomology, Advisor: Dr. Mary M Gardiner, Dr. Larry P Phelan Testing mechanisms of beetle community assembly in an urban landscape
2017 – 2018	The Ohio State University, Columbus, Ohio Department of Entomology, Advisor: Dr. Mary M Gardiner Pollination Investigators: A Pollination Citizen Science Project
2010 – 2016	The Ohio State University, Wooster, Ohio Department of Entomology, Advisor: Dr. Daniel A Herms Response of ground-dwelling invertebrate communities to forest disturbance
2009	Rocky Mountain Biological Laboratory, Gothic, Colorado REU Program, Advisor: Dr. Kailen A Mooney Effects of host plant sex on an ant-aphid mutualism occurring on Edible Valerian (<i>Valeriana edulis</i>) in the Rocky Mountains
2008	Baldwin-Wallace College, Berea, Ohio Dept. of Biology, Advisor: Dr. Michael N Melampy Effects of deer browsing on the reproductive success of Mayapple (<i>Podophyllum peltatum</i>)

Workshops

2018	StaphMeeting: A Workshop on Rove Beetles , June 20-26 Clemson University Arthropod Collection
2017	Ohio Ants , August 4-6 Edge of Appalachia Preserve, Cincinnati Museum Center

PUBLICATIONS

Peer-reviewed Publications: h-index, 12

- McNamara Manning, K, KI **Perry**, and CA Bahlai. *In Press*. Characterizing insect communities within thin-soil environments, *The Great Lakes Entomologist*
Preprint available: <https://doi.org/10.1101/2022.10.01.510429>
- Arnold, MB, M Back, MD Crowell, N Farooq, P Ghimire, OA Obarein, KE Smart, T Taucher, E VanderJeugdt, KI **Perry**, DA Landis, and CA Bahlai. *In Press*. Coexistence between similar invaders: The case of two cosmopolitan exotic species, *Ecology*
Preprint available: <https://doi.org/10.1101/2022.02.03.479030>
- 2022 **Perry**, KI, CB Riley, F Fan, J Radl, DA Herms, and MM Gardiner. The value of hybrid and nonnative ash for the conservation of ash specialists is limited following late stages of emerald ash borer invasion, *Agricultural and Forest Entomology*, 24: 355-370. doi.org/10.1111/afe.12499
- 2021 **Perry**, KI, FS Sivakoff, KF Wallin, JW Wenzel, and DA Herms. Forest disturbance and arthropods: Small-scale canopy and understory disturbances alter movement of mobile arthropods, *Ecosphere*, 12(11):e03771. doi.org/10.1002/ecs2.3771
- 2021 Gardiner, MM, KI **Perry**, CB Riley, KJ Turo, YA Delgado de la flor, and FS Sivakoff. Community science data suggests that urbanization and forest habitat loss threaten aphidophagous native lady beetles, *Ecology and Evolution*, 11: 2761-2774. doi.org/10.1002/ece3.7229
- 2021 **Perry**, KI, NC Hoekstra, SW Culman, MM Gardiner. Vacant lot soil degradation and mowing frequency shape communities of belowground invertebrates and urban spontaneous vegetation, *Urban Ecosystems*, 24(4):737-752. doi.org/10.1007/s11252-020-01069-0
- 2020 **Perry**, KI, NC Hoekstra, YA Delgado de la Flor, and MM Gardiner. Disentangling landscape and local drivers of ground-dwelling beetle community assembly in an urban ecosystem, *Ecological Applications* 30(8):e02191. doi.org/10.1002/eap.2191
- 2020 Delgado de la Flor, YA, KI **Perry**, KJ Turo, DM Parker, JL Thompson, and MM Gardiner. Local and landscape-scale environmental filters drive the functional diversity and taxonomic composition of spiders across urban greenspaces, *Journal of Applied Ecology* 57: 1570-1580. doi.org/10.1111/1365-2664.13636
- 2019 **Perry**, KI and DA Herms. Dynamic responses of ground-dwelling invertebrate communities to disturbance in forest ecosystems, *Insects*, 10, 61. doi:10.3390/insects10030061, Special Issue: "Ecology and Management of Forest Insects in a Changing World"
- 2018 **Perry**, KI, KF Wallin, JW Wenzel, and DA Herms. Forest disturbance and arthropods: Small-scale canopy gaps drive invertebrate community structure and composition, *Ecosphere*, 9(10):e02463. doi: 10.1002/ecs2.2463
- 2018 Riley, CB, KI **Perry**, KJ Ard, and MM Gardiner. Asset or liability? Ecological and sociological tradeoffs of urban spontaneous vegetation on vacant land in shrinking cities, *Sustainability*, 10, 2139.

- doi:10.3390/su10072139, Special Issue: "Sustaining the Shrinking City: Concepts, Dynamics and Management"
- 2018 Klooster, WS, KJK Gandhi, L Long, KI **Perry**, K Rice, DA Herms. Ecological impacts of emerald ash borer in forests at the epicenter of the invasion in North America, *Forests*, 9, 250: 1-14. doi:10.3390/f9050250, Special Issue "Understanding and Managing Emerald Ash Borer Impacts on Ash Forests"
- 2018 **Perry**, KI, DA Herms, WS Klooster, A Smith, DM Hartzler, DR Coyle, and KJK Gandhi. Downed coarse woody debris dynamics in ash (*Fraxinus* spp.) stands invaded by emerald ash borer (*Agrilus planipennis* Fairmaire), *Forests*, 9, 191: 1-14. doi:10.3390/f9040191; Special Issue "Understanding and Managing Emerald Ash Borer Impacts on Ash Forests"
- 2017 **Perry**, KI and DA Herms. Effects of late stages of emerald ash borer (Coleoptera: Buprestidae)-induced ash mortality on forest floor invertebrate communities, *Journal of Insect Science*, 17(6): 119, 1-10. doi: 10.1093/jisesa/iex093
- 2017 **Perry**, KI and DA Herms. Responses of ground-dwelling invertebrates to gap formation and accumulation of woody debris from invasive species, wind, and salvage logging, *Forests*, 8, 174: 1-13. doi: 10.3390/f8050174; Special Issue "Coarse Woody Debris of Forests in a Changing World"
- 2017 **Perry**, KI, KF Wallin, JW Wenzel, and DA Herms. Characterizing movement of ground-dwelling forest arthropods with a novel mark-capture method using fluorescent powder, *Journal of Insect Behavior*, 30(1): 32-47. doi: 10.1007/s10905-017-9598-0
- 2016 **Perry**, KI and DA Herms. Response of the forest floor invertebrate community to canopy gap formation caused by early stages of emerald ash borer-induced ash mortality, *Forest Ecology and Management*, 375: 259-267. doi: 10.1016/j.foreco.2016.05.034
- 2016 **Perry**, KI and DA Herms. Short-term responses of ground beetles to forest changes caused by early stages of emerald ash borer (Coleoptera: Buprestidae)-induced ash mortality. *Environmental Entomology*, 45(3): 616-626. doi: 10.1093/ee/nvw038
- 2013 Petry, WK, KI **Perry**, A Fremgen, S Rudeen, M Lopez, J Dryburgh, and KA Mooney. Mechanisms underlying plant sexual dimorphism in multi-trophic arthropod communities. *Ecology* 94(9): 2055-2065.
- 2012 Petry, WK, KI **Perry**, and KA Mooney. Influence of macronutrient imbalance on native ant interactions with aphids, aphid enemies, and host plant flowers in the field, *Ecological Entomology* 37(3): 175-183.

Preprints and In Review

McNamara Manning, K, KI **Perry**, and CA Bahlai. A novel method for monitoring ground-dwelling arthropods on hard substrates: Characterizing arthropod biodiversity among survey methods, *PeerJ* Preprint available: <https://doi.org/10.1101/2021.12.06.471448>

Perry, KI, CA Bahlai, TJ Assal, CB Riley, KJ Turo, L Taylor, J Radl, YA Delgado de la flor, FS Sivakoff, and MM Gardiner. Landscape change and alien invasions drive shifts in native lady beetle communities over a century, *Ecological Applications*
Preprint available: <https://doi.org/10.1101/2022.04.21.489069>

Books

2020 Klimaszewski, J, ER Hoekeke, B Godin, A Davies, KI **Perry**, C Bourdon, and N Winchester. Aleocharinae Rove Beetles of British Columbia, A Hotspot of Canadian Biodiversity (Coleoptera, Staphylinidae). Springer. <https://doi.org/10.1007/978-3-030-36174-7>

Software and Data Products

2022 **Perry**, KI and CB Riley. kiperry/Ash_Beetle_Communities: Study data and analysis code (v1.0). Zenodo. <https://doi.org/10.5281/zenodo.5907461>

2021 **Perry**, KI. kiperry/Arthropod_Marking: Study data (v1.0) [Data set]. Zenodo. <https://doi.org/10.5281/zenodo.5337015>

Non Peer-Reviewed Publications

2022 **Perry**, KI. Conserving forest habitat for wildlife: Providing context to a landscape design that engages the public in nonnative species management. *Ecological Design Commentary, Ecological Restoration*, 40(2): 128-130. DOI: 10.3368/er.40.2.128

2017 **Perry**, KI. [After emerald ash borer comes and goes, invertebrates on the ground get to work.](#) *Entomology Today*. Published on 21 December.

Proceedings and Published Abstracts

2022 **Perry**, KI, CB Riley, F Fan, J Radl, MM Gardiner, and DA Herms. The value of hybrid and nonnative ash for the conservation of ash specialists in regions invaded by emerald ash borer. In: Arango, R.A. and D.S. Pureswan, Eds. 2022. *Proceedings of the 7th North American Forest Insect Work Conference Shaping Forests: Action in a Changing World*. USDA Forest Service FHAAS-2022-01. 231 pp.

2017 **Perry**, KI and DA Herms. Response of ground-dwelling arthropods to temporal patterns of ash mortality caused by emerald ash borer. In: KA McManus, ed. *27th USDA Interagency Research Forum on Invasive Species, January 10-13; Annapolis, Maryland*, p. 20-21. USDA Forest Service, FHTET-2017-06. 80 pp.

2016 **Perry**, KI and DA Herms. Response of ground-dwelling invertebrate communities to temporal patterns of ash mortality. In: J Buck, G Parra, D Lance, R Reardon, and D Binion, eds. *Proceedings of the Emerald Ash Borer Research and Technology Development Meeting, October 19-20, Wooster, Ohio*, p. 42. USDA Forest Health Technology Enterprise Team, FHTET-2016-10. 126 pp.

2016 **Perry**, KI, Wallin, KF, and DA Herms. Forest disturbance increased ground beetle (Carabidae) species diversity. In: KA McManus, ed. *27th USDA Interagency Research Forum on Invasive Species, January 12-15; Annapolis, Maryland*, p. 78. USDA Forest Service, FHTET-2016-09. 119 pp.

2015 **Perry**, KI, Wallin, KF, and DA Herms. Effects of forest disturbance on ground-dwelling invertebrate dispersal. In: KA McManus and KW Gottschalk, eds. *26th USDA Interagency Research Forum on*

- Invasive Species, January 13-16; Annapolis, Maryland*, p. 78. USDA Forest Service, FHTET-2015-09. 104 pp.
- 2014 **Perry**, KI, Walker, RK, and DA Herms. Effects of canopy gap formation and coarse woody debris caused by emerald ash borer-induced ash mortality on ground beetle (Coleoptera: Carabidae) assemblages. *In: J Buck, G Parra, D Lance, R Reardon, and D Binion, eds. Proceedings of the Emerald Ash Borer Research and Technology Development Meeting, October 15-16, Wooster, Ohio*, p. 34. USDA Forest Health Technology Enterprise Team, FHTET-2015-07. 118 pp.
- 2014 **Perry**, KI, Walker, RK, and DA Herms. Ash Mortality Caused by Emerald Ash Borer Impacts Forest Floor Invertebrate Communities. *In: KA McManus, and KW Gottschalk, eds. 25th USDA Interagency Research Forum on Invasive Species, January 7-10, Annapolis, Maryland*, p. 79. USDA Forest Service, FHTET-2014-01. 95 pp.
- 2011 **Perry**, KI, and DA Herms. Effects of emerald ash borer induced ash mortality on soil invertebrates. *In: G Parra, D Lance, V Mastro, R Reardon, and C Benedict, eds. Proceedings of the Emerald Ash Borer Research and Technology Development Meeting, October 12-13, Wooster, Ohio*, p. 117. USDA Forest Health Technology Enterprise Team, FHTET-2011-06. 176 pp.

Funding History

Active/Awarded Grants

- 2022 Conceptualizing landscapes: Examining feedbacks between urban ecosystems and regulatory documents using machine learning methods. PI: KI Perry, Co-PI: C Bahlai, and Senior Person LY Tawk. Proposal to the Environmental Science and Design Research Initiative, Kent State University. May 1, 2022- Oct 1, 2023. **\$12,000.**
- 2022 Insect Identification – 2022 Service Order. PI: KI Perry. Bayer Crop Science. September 2022 – August 2023. **\$84,000.**

Pending/Awaiting Response

- 2023 Identifying distributions, habitat affinities, and the impact of invasive Asian earthworms (jumping worms) on forest health across Mid-Atlantic region. Multistate Grant, PI: Shishir Paudel, Co-PI: Sarah L. States, Co-PI: KI Perry. Proposal to Eastern Region Bipartisan Infrastructure Law (BIL) High-Priority Regional Invasive Species Program for Non-Federal Lands. 1 September 2023 – 31 August 2027. Subaward \$833,391.
- 2023 Distribution and impacts of invasive jumping worms in Ohio forests. PI: KI Perry, Co-PI: PL Phelan. Proposal to Eastern Region Bipartisan Infrastructure Law (BIL) High-Priority Regional Invasive Species Program for Non-Federal Lands. 1 January 2024 – 31 December 2028. \$910,567.
- 2023 Characterizing the legacy of emerald ash borer on ash populations near the epicenter of invasion in North America. PI: KI Perry, FHP Sponsor: I Fraser, Cooperator: DA Herms. Proposal to USDA Forest Service, Forest Health Protection Grants, Gene Conservation, Resistance, and Restoration Program. 1 January 2024 – 31 December 2025. \$149,073.

- 2022 Investigating rusty patched bumble bee (*Bombus affinis*) habitat suitability for recovery efforts in the RPBB Conservation Unit 3. PI: JP Strange, Co-PI: KI Perry. Proposal to US Fish and Wildlife Service Recovery Challenge Fund. 1 March 2023 – 28 February 2026. \$361,549.
- 2022 Characterizing the legacy of emerald ash borer on ash populations near the epicenter of invasion in North America. PI: KI Perry. Proposal to 2023 CFAES Internal Grants Program, New Researcher Incentive Program, The Ohio State University. 1 April 2023 – 31 March 2024. \$55,000.

Past Grants

- 2022 Effects of glyphosate on decomposer communities in invaded forests. PI: J Hartshorn, Clemson University, Co-PI: KI Perry. Proposal to USDA Forest Service, Forest Health Protection Grants, Pesticide Impact Assessment Program. 1 August 2023 – 31 August 2026. Subaward \$41,267. *Not Funded*.
- 2022 Effects of glyphosate on decomposer communities in invaded forests. PI: J Hartshorn, Clemson University, Co-PI: KI Perry. Proposal to USDA Forest Service, Forest Health Protection Grants, Pesticide Impact Assessment Program. 1 August 2023 – 31 August 2026. Subaward \$41,267. *Not Funded*.
- 2022 Characterizing the legacy of emerald ash borer on forest communities near the epicenter of invasion in North America. PI: KI Perry, FHP Sponsor: I Fraser, Cooperator: DA Herms. Proposal to USDA Forest Service, Forest Health Protection Grants, Forest Health Monitoring Program, Evaluation Monitoring (EM). 1 May 2023 – 30 April 2025. \$103,372. *Not Funded*.
- 2022 Conceptualizing wetlands: Examining feedbacks between regulatory documents, land assessment, and wetland function using machine-learning methods. PI: C Bahlai, Co-PIs: LE Kinsman-Costello & KI Perry. Proposal to Ohio Department of Higher Education Harmful Algal Bloom Research Initiative, Ohio Sea Grant. Fall 2022-Fall 2024. *Not funded*.
- 2020 Long-term responses of ground beetles (Coleoptera, Carabidae) to forest disturbance caused by wind and salvage logging with a focus on *Pterostichus Bonelli*. KI Perry. Ross Taylor Bell and Joyce Rockenbach Bell Research Grant, Coleopterists Society, *Not funded*.
- 2019 A focus on arthropods and their food-web interactions to advance urban forest management using an environmental filter approach. KI Perry. David H. Smith Conservation Research Fellowship, *Not funded*.
- 2018 Responses of ground-dwelling arthropods to wind and salvage harvest disturbance. KI Perry. Gund Institute for the Environment, Postdoctoral Fellowship Application, The University of Vermont, *Not funded*.
- 2018 Investigation of regional and local processes of ground-dwelling insect community assembly in urban greenspaces of Cleveland, Ohio using a functional trait-based approach. KI Perry. USDA National Institute of Food and Agriculture: Food, Agriculture, Natural Resources and Human Sciences Education and Literacy Initiative Postdoctoral Fellowship. 2018-2020. **\$158,324**

- 2017 Investigation of regional and local processes of insect community assembly in urban greenspaces using a functional trait-based approach. KI Perry. David H. Smith Conservation Research Fellowship, *Not funded*.
- 2016 Testing mechanisms of ground-dwelling beetle community assembly in an urban landscape. KIPerry. National Science Foundation Postdoctoral Research Fellowships in Biology. *Not funded*.
- 2015 Effects of forest disturbance on ground-dwelling invertebrate dispersal. KI Perry and DA Herms. Student Research Grant, Powdermill Nature Reserve, Carnegie Museum of Natural History, Pittsburgh, Pennsylvania. 2015-2016. **\$8,000**
- 2015 Response of the forest floor invertebrate community to forest disturbance. KI Perry and DA Herms. SEEDS: The Ohio Agricultural Research and Development Center Graduate Research Enhancement Grant Program, The Ohio State University, Wooster, Ohio. 2015-2016. **\$5,000**
- 2015 Ground beetle response to forest disturbance: A test of the competition-colonization trade-off model. KI Perry. Graduate Student Research Enhancement Award, The Coleopterists Society. *Not funded*.
- 2013 Effects of ash mortality caused by emerald ash borer (*Agrilus planipennis*) on the forest floor invertebrate community. KI Perry and DA Herms. SEEDS: The Ohio Agricultural Research and Development Center Graduate Research Enhancement Grant Program, The Ohio State University, Wooster, Ohio. 2013-2015. **\$3,000**

Travel Grants

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| \$1000 | 2016 | Ray Travel Award for Service and Scholarship
Council of Graduate Students, The Ohio State University |
| \$500 | 2016 | North Central Branch Student Travel Award
Entomological Society of America |
| \$500 | 2015 | North Central Branch Student Travel Award
Entomological Society of America |

Grant Writing Workshops

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| 2018 | Participant , Scientific Writing = Thinking in Words, Writing Seminar Series
CFAES Research Library
The Ohio State University, Wooster, Ohio |
| 2018 | Participant , Crash Course in Scientific Writing Workshop
Dr. Chris Gillen, Kenyon College
The Ohio State University, Wooster, Ohio |
| 2017 | Selected Participant , Effective Grant Writing Workshop
Postdoctoral Advisory Council and BioScience Writers
The Ohio State University, Columbus, Ohio |

Review Experience

2022	Proposal Reviewer Jack Kimmel International Grant Program, TREE Fund
2022	Proposal Reviewer Hyland R. Johns Grant Program, TREE Fund
2017	Proposal Reviewer Ohio State Chapter Sigma Xi Graduate and Undergraduate Grants-in-Aid of Research (GIAR) Program, Ohio State University
2016	Review Panel Participant SEEDS: The OARDC Graduate Research Enhancement Competitive Grants Program College of Food, Agricultural and Environmental Science, The Ohio State University

TEACHING EXPERIENCE

2022	Instructor , North Central Branch, Entomological Society of America Pre-Conference Workshop, Metropolitan State University Ground Beetle Ecology and Identification Workshop (3 days, 11 participants)
2020	Instructor , The Ohio State University, Columbus, Ohio Ground Beetle Identification Workshop (5 days; 12 participants)
2018	Instructor , The Ohio State University, Columbus, Ohio ENTMLGY 7910: The Nature and Practice of Science
2017	Instructor , The Ohio State University, Columbus, Ohio ENTMLGY 4000: General Entomology Laboratory
2017	Teaching Assistant , The Ohio State University, Columbus, Ohio ENTMLGY 3330: Social Insects
2017	Co-Instructor , The Ohio State University, Columbus, Ohio ENTMLGY 3790H: Evolution in Darwin's World and Ours
2017	Teaching Assistant , The Ohio State University, Columbus, Ohio ENTOMOL 4440H: Honors Social Insects
2015	Co-Instructor , The Ohio State University, Wooster, Ohio ENTOMOL 7890: Invasion Ecology
2014	Teaching Assistant , The Ohio State University, Wooster, Ohio ENTOMOL 7910: The Nature and Practice of Science
2011	Teaching Assistant , College of Wooster, Wooster, Ohio BIOL 323: Natural History of the Invertebrates
2010 – 2011	Graduate Teaching Associate , Center for Life Sciences Education, The

The Ohio State University, Columbus, Ohio
 BIO 101: General Biology

2009 **Teaching Assistant**, Baldwin-Wallace College, Berea, Ohio
 BIO 334: Invertebrate Natural History

2007 – 2010 **Biology Tutor**, Baldwin-Wallace College, Berea, Ohio
 BIO 121L/122L: Principles of Biology I & II

Guest Lectures

2022 Introduction to GitHub & Integration with R for Project Management Workshop
 Entomological Graduate Student Association Statistics Seminar Series
 Department of Entomology, The Ohio State University

2022 The Ecological Niche: History, Theory, and Practice
 Department of Entomology, The Ohio State University
 ENTMLGY 6410: Insect Ecology and Evolutionary Processes

2022 Introduction to Biodiversity
 Department of Entomology, The Ohio State University
 ENTMLGY 6410: Insect Ecology and Evolutionary Processes

2019 Biology and management of forest insect pests
 Agricultural Technical Institute, The Ohio State University
 BIOTECH 2218T: General and Applied Entomology

2017 Ground-dwelling Insects
 Agricultural Technical Institute, The Ohio State University
 BIOTECH 2218T: General and Applied Entomology

2016 Techniques for preserving insects
 The College of Wooster, BIOL-39904: Plant-Insect Interactions

2016 Ecosystem services provided by ground-dwelling invertebrates
 Agricultural Technical Institute, The Ohio State University
 BIOTECH 2218T: General and Applied Entomology

2015 Methods for collecting ground-dwelling insects
 Agricultural Technical Institute, The Ohio State University
 BIOTECH 2218T: General and Applied Entomology (lab)

2015 Ground-dwelling insects and their role in ecosystem services
 Agricultural Technical Institute, The Ohio State University
 BIOTECH 2218T: General and Applied Entomology

2014 History of Entomology
 Agricultural Technical Institute, The Ohio State University
 BIOTECH 2218T: General and Applied Entomology

2013 Prediction, Risk Assessment, and Management of Species Invasions
Department of Entomology, The Ohio State University
ENT 795: Invasion Ecology

2013 History of Entomology
Agricultural Technical Institute, The Ohio State University,
BIOTECH 2218T: General and Applied Entomology

Course Development

2018 **ENTMLGY 5350.01: Taxonomy and Behavior of Aquatic Invertebrates**
Department of Entomology, Ohio State University

2017 **Selected Participant**, Course Design Institute
University Center for the Advancement of Teaching, Ohio State University
Course: *The Nature and Practice of Science*

Discussion/Book Groups

2018 **Participant**, *Teaching Interculturally: A Framework for Integrating Disciplinary Knowledge and Intercultural Development*; Amy Lee et al.
University Center for the Advancement of Teaching, Ohio State University

2017 **Participant**, *Minds Online: Teaching Effectively with Technology*; Michelle D. Miller
University Center for the Advancement of Teaching, Ohio State University

2011 **Participant**, *How Learning Works: 7 Research-Based Principles for Smart Teaching*; Susan A. Ambrose and Michael W. Bridges
University Center for the Advancement of Teaching, Ohio State University

Workshops

2023 **Participant**, *Gauging student prior knowledge*
Drake Institute Assessment for Learning Series
The Michael V. Drake Institute for Teaching and Learning, The Ohio State University

2023 **Participant**, *Trans 101*
Diversity, Intercultural, and Community Program
The Center for Belonging and Social Change, The Ohio State University

2023 **Participant**, *Creating LGBTQ inclusive classrooms*
The Center for Belonging and Social Change, The Ohio State University

2022 **Participant**, *Practicing bystander intervention strategies*
Office of Diversity and Inclusion, CFAES, The Ohio State University

2022 **Participant**, *Inclusive and equitable hiring practices*
Office of Diversity and Inclusion, CFAES, The Ohio State University

2022 **Participant**, *Contemplative pedagogies for an inclusive classroom*

The Michael V. Drake Institute for Teaching and Learning, The Ohio State University

2022 **Participant**, *The language of inclusion: Pronouns and other gendered words*
Office of Diversity and Inclusion, CFAES, The Ohio State University

2022 **Participant**, *Jigsaw: A strategy for evidence-based teaching*
The Michael V. Drake Institute for Teaching and Learning, The Ohio State University

Mentoring Experience

2020 – 2021 **Molly Sayles**, Undergraduate Research Project, Ohio State University Advisor
Oberlin College, Oberlin, Ohio

2019 – 2021 **Jena Copley**, Undergraduate Research Project, Ohio State University Advisor
Independent Study Program
The College of Wooster, Wooster, Ohio

2018 – 2019 **Michael Rogers**, Undergraduate Research Project, Advisor
“Rich plant communities in urban greenspaces support abundant and diverse spider (Linyphiidae) assemblages”
The Ohio State University, Columbus, Ohio

2018 – 2019 **Ellen Dunkle**, Undergraduate Research Project, Advisor
“Impacts of urbanization on ground beetle reproductive success (Coleoptera: Carabidae)”
The Ohio State University, Columbus, Ohio
- 2nd Place BS Student Oral Paper Competition, North Central Branch ESA
- Student Travel Award, North Central Branch ESA
- Finalist, OSU Denman Undergraduate Sustainability Institute Award

2018 – 2020 **Alex Tyrpak**, MS Graduate Student, Co-Advisor
The Ohio State University, Columbus, Ohio
- 1st Place MS Student Oral Paper Competition, North Central Branch ESA
- Student Travel Award, North Central Branch ESA
- 2nd Place Student Oral Paper Competition, Entomological Society of America
- Dwight M. DeLong Oral Presentation Award, OSU Department of Entomology

2016 – 2017 **Kara Taylor**, Independent Research Project, Advisor
“Ant community assembly following tornado disturbance”
The Ohio State University, Wooster, Ohio

2011 – 2012 **Sarah Rudawsky**, Undergraduate Research Project, Co-Advisor
“Effects of emerald ash borer-induced habitat disturbance on spider community structure in southeastern Michigan.”
The Ohio State University, Wooster, Ohio

AWARDS AND HONORS

2021 **Excellence in Early Career Award**

North Central Branch, Entomological Society of America

2017

J. H. Comstock Award

North Central Branch, Entomological Society of America

2017

Student Service Award

North Central Branch, Entomological Society of America

2017

Departmental Nominee for William E. Krauss Director's Award for Excellence in Graduate Research

College of Food, Agricultural and Environmental Science
Department of Entomology, Ohio State University

2016

1st Place Student Oral Paper Competition

XXV International Congress of Entomology
Orlando, Florida

2016

1st Place Ph.D. Student Poster Competition

North Central Branch Entomological Society of America
Cleveland, Ohio

2016

2nd Place Entomology Games Competition

North Central Branch Entomological Society of America
Cleveland, Ohio

2015

4th Place Triplehorn Insect Pinning Challenge

North Central Branch Entomological Society of America

2015

1st Place Ph.D. Student Poster Competition

North Central Branch Entomological Society of America
Manhattan, Kansas

2015

1st Place Ph.D. Poster Competition

Ohio Agricultural Research and Development Center Annual Research Conference
The Ohio State University, Columbus, Ohio

2015

Departmental Nominee for Charles E. Thorne Memorial Associateship

College of Food, Agricultural and Environmental Science
Department of Entomology, The Ohio State University

2014

Graduate Student Dwight M. DeLong Award

Department of Entomology, The Ohio State University

2014

David J. Horn Service Award

Department of Entomology, The Ohio State University

2014

1st Place M.S. Poster Competition

Ohio Agricultural Research and Development Center Annual Research Conference

The Ohio State University, Wooster, Ohio

- 2014 **1st Place M.S. Student Poster Competition**
North Central Branch Entomological Society of America
Des Moines, Iowa
- 2013 **A Bug's World Extension Award**
Department of Entomology, The Ohio State University
- 2013 **2nd Place M.S. Poster Competition**
Ohio Agricultural Research and Development Center Annual Research Conference
The Ohio State University, Columbus, Ohio
- 2012 **2nd Place M.S. Poster Competition**
Ohio Agricultural Research and Development Center Annual Research Conference
The Ohio State University, Wooster, Ohio
- 2010 **James Ruegsegger Prize in Biology**
Department of Biology, Baldwin-Wallace College

PROFESSIONAL SERVICE ACTIVITIES

International/National Working Groups

- 2022 – Present **Co-Chair**, Unified Insect Trait Database Working Group
Status of Insects: An International Research Coordination Network
<https://statusofinsects.github.io/index.html>
- 2022 – Present **Member**, Ground Beetle Technical Working Group
National Ecological Observatory Network, National Science Foundation

Scientific Organizations

- 2022 – Present **Chair**, North Central Branch Professional Awards Committee
Entomological Society of America
- 2020 – 2022 **Chair**, North Central Branch Early Career Professionals (ECP) Committee
Entomological Society of America
- 2020 – Present **Member**, North Central Branch Early Career Professionals (ECP) Committee
Entomological Society of America
- 2020 – 2022 **ECP Member-at-Large**, North Central Branch Executive Committee
Entomological Society of America
- 2018 – 2022 **Representative**, North Central Branch Professional Awards Committee
Entomological Society of America
- 2016 – 2018 **Student Member-at-Large**, North Central Branch Executive Committee
Entomological Society of America

2015 – 2016	Graduate Student Representative , North Central Branch Local Arrangements Committee Entomological Society of America
2015 – 2016	Graduate Student Representative , North Central Branch Executive Committee Entomological Society of America
2015 – 2016	Chair , North Central Branch Student Affairs Committee Entomological Society of America
2015	National Student Affairs Committee Liaison Student Transition and Early Professionals (STEP) Committee for International Congress of Entomology (ICE) 2016 Travel Awards Program Entomological Society of America
2014 – 2015	Vice Chair , North Central Branch Student Affairs Committee Entomological Society of America
2013 – 2015	Graduate Student Representative from the North Central Branch National Student Affairs Committee Entomological Society of America
2012 – 2016	Graduate Student Representative from the Ohio State University North Central Branch Student Affairs Committee Entomological Society of America

University and Departmental Committees

2022 – Present	Member , Graduate Studies Committee Department of Entomology, The Ohio State University
2021	Entomology Representative , Fellowship Review Committee College of Food, Agriculture and Environmental Science, Ohio State University
2012 – 2016	Graduate Student Representative , Graduate Studies Committee Department of Entomology, The Ohio State University
2012	Graduate Student Representative , Research and Scholarly Work Committee Office of Academic Affairs Review Department of Entomology, The Ohio State University
2008 – 2010	President , Students for Environmental Awareness Baldwin-Wallace College
2009 – 2010	Undergraduate Student Representative , Sustainability Committee Baldwin-Wallace College

Development and Organization of Symposia

- 2021 *Adapting, Advancing, and Transforming Forest Entomology for Climate Change*
Organized with Jessica A Hartshorn, Rachel A Arango, and Molly N Darr
Entomological Society of America, Denver, Colorado, November 2.
- 2019 *Advocating for Forest Entomology through Teaching and Extension*
Organized with Jessica A Hartshorn and Rachel A Arango
Entomological Society of America, St. Louis, Missouri, November 17.
- 2018 *Crossing Borders: Global Collaborations to Combat Forest Insect Pests*
Organized with Jessica A Hartshorn and Rachel A Arango
Entomological Society of America, Vancouver, BC, Canada, November 13.
- 2018 *Forest Entomology*
Organized with Todd D Johnson
North Central Branch, Entomological Society of America, Madison, Wisconsin, March 20.
- 2017 *Forest Entomology*
Organized with Todd D Johnson
North Central Branch, Entomological Society of America, Indianapolis, Indiana, June 6.
- 2016 *Aquatic Entomology Around the World*
Organized with Kyndall Dye
XXV International Congress of Entomology, Orlando, Florida, September 30.
- 2016 *From basic to applied science: Tri-trophic interactions in natural and managed systems*
Organized with Rachael Sitz
North Central Branch, Entomological Society of America, Cleveland, Ohio, June 7.
- 2016 *Forest Entomology*
Organized with Todd D Johnson
North Central Branch, Entomological Society of America, Cleveland, Ohio, June 6.
- 2015 *Synergy in Agricultural Pest Control: Use of Interdisciplinary Approaches to Feed a Growing Population*
Organized with National ESA Student Affairs Committee
Entomological Society of America, Minneapolis, Minnesota, November 18.
- 2015 *Ecology and Control of Disease Vectors*
Organized with ESA North Central Branch Student Affairs Committee
North Central Branch Entomological Society of America, Manhattan, Kansas, June 3.
- 2014 *Grand Challenge: Effective Science Education with Communication*
Organized with National ESA Student Affairs Committee
Entomological Society of America, Portland, Oregon, November 19.
- 2014 *The Buzz about Entomology: Engaging the Public in Science*
Organized with ESA North Central Branch Student Affairs Committee
North Central Branch Entomological Society of America, Des Moines, Iowa, March 11.

Editorial Service

Review Editor, *Frontiers in Forests and Global Change – Pests, Pathogens, and Invasions*

Guest Editor, Special Issue “Ecology and Management of Forest Insects in a Changing World”, *Insects*
with Daniel A. Herms and Kenneth F. Raffa

http://www.mdpi.com/journal/insects/special_issues/ecology_mangement_forest_insects

Ad hoc peer-reviewer for scientific journals: *Oikos* (1), *Agricultural and Forest Entomology* (1), *European Journal of Entomology* (2), *Ecological Applications* (2), *Nature Scientific Reports* (1), *Functional Ecology* (1), *Journal of Insect Conservation* (1), *Frontiers in Forests and Global Change* (1), *Canadian Journal of Forest Research* (1), *Insects* (1), *Urban Ecosystems* (1), *The Canadian Entomologist* (4), *Baltic Forestry* (1), *PLOS ONE* (2), *Forest Science* (2), *Plant Ecology and Diversity* (1), *Biological Invasions* (1), *Forests* (2), *Arthropod-Plant Interactions* (1), *Insect Systematics and Diversity* (2), *Journal of Economic Entomology* (2), *Forest Ecology and Management* (6), *Environmental Entomology* (5), *Entomological News* (1)

Review record on Publons: <https://publons.com/researcher/1366673/kayla-i-perry>

Career Development Programs

2018 – 2020 **Postdoctoral Professional Development Certification Program**

Academic Module

Office of Postdoctoral Affairs, The Ohio State University

2018 **Early Career Professional Mentee Program**

Mentor: Dr. Scott L. Collins, University of New Mexico

Early Career Mentoring Program, Early Career Ecologist Section, Entomological Society of America

Additional Service Activities

2022 **Oral Presentation Judge**
Grad SysEB: Biodiversity and Evolution
Entomological Society of America

2022 **Webinar Co-Moderator**
Early Career Professionals Career Webinar Series: NGO and Non-Profit
Entomological Society of America

2022 **Webinar Organizer and Moderator**
Early Career Professionals Career Webinar Series: Academia - Research & Extension
Entomological Society of America

2022 **Webinar Organizer and Moderator**
Early Career Professionals Career Webinar Series: Industry
Entomological Society of America

2022 **Oral Presentation Judge**
Grad P-IE, North Central Branch Meeting

Entomological Society of America

2022

Co-Organizer

Early Career Professionals Mixer, organized with Anh Tran
North Central Branch, Entomological Society of America, Minneapolis, MN

2021

Oral Presentation Judge

Grad SysEB: Ecology
Entomological Society of America

2021

Judge – “Most Interesting Find”

iNaturalist BioBlitz, Virtual North Central Branch Meeting
Entomological Society of America

2020

Poster Judge

Undergraduate, P-IE and SysEB Sections
Joint Virtual North Central Branch & Southwestern Branch
Entomological Society of America, Virtual Student Presentations

2020

Poster Judge

2020 CFAES Annual Research Poster Competition
College of Food, Agriculture, and Environmental Sciences, The Ohio State University

2019

Simberloff Outstanding Presentation Award Judge

Invasion Ecology Section, Ecological Society of America, Louisville, KY

2019

Oral Presentation Judge

PhD, Plant-Insect Ecosystems Section
North Central Branch, Entomological Society of America, Cincinnati, OH

2019

Poster Judge

Delong Graduate Student Paper Competition, OSU Dept. of Entomology

2019

Oral Presentation Judge

Edward F. Hayes Graduate Research Forum, The Ohio State University

2018

Reviewer

Postdoctoral Association Travel Awards
Office of Postdoctoral Affairs, The Ohio State University

2018

Undergraduate Poster Judge

Systematics, Evolution, and Biodiversity Section
Entomological Society of America, Vancouver, BC, Canada

2018

Oral Presentation Judge

Delong Graduate Student Paper Competition, OSU Dept. of Entomology

2018

Poster Judge

E. Lucy Braun Award, Ecological Society of America

2018

Oral Presentation Judge

Murray F. Buell Award, Ecological Society of America

2018

Abstract Judge

Edward F. Hayes Graduate Research Forum, The Ohio State University

2017

Graduate Oral Presentation Judge

Systematics, Evolution, and Biodiversity Section
Entomological Society of America, Denver, Colorado

2017

Graduate Poster Presentation Judge

Plant-Insect Ecosystems Section
Entomological Society of America, Denver, Colorado

2017

BS Oral Presentation Judge

The Ohio Valley Entomological Association Annual Forum, The Ohio State University

2017

PhD Poster Presentation Judge

North Central Branch, Entomological Society of America, Indianapolis, Indiana

2017

Oral Presentation Judge

Edward F. Hayes Graduate Research Forum, The Ohio State University

2016

Abstract Judge

Edward F. Hayes Graduate Research Forum, The Ohio State University

2016

Student Volunteer

XXV International Congress of Entomology, Orlando, Florida

2016

Judge

Triplehorn Insect Pinning Challenge
XXV International Congress of Entomology, Orlando, Florida

2016

Organizer and Moderator

Student Luncheon, Entomophagy Presentations and Panel Discussion
North Central Branch, Entomological Society of America, Cleveland, Ohio

2016

Organizer

Student Mixer, Hofbräuhaus Cleveland
North Central Branch, Entomological Society of America, Cleveland, Ohio

2016

Organizer and Judge

Triplehorn Insect Challenge
North Central Branch, Entomological Society of America, Cleveland, Ohio

2015

Student Judge

Travel Award, Student Transition and Early Career Professionals XXV International Congress of Entomology
Entomological Society of America

2015 **Student Volunteer**
Entomological Society of America

2015 **Student Judge**
Delong Graduate Student Paper Competition, OSU Dept. of Entomology

2013 – 2016 **Entomology Games Participant**
The Ohio State University Team, Entomological Society of America

2013 **Student Volunteer**
Entomological Society of America

2009 – 2010 **Undergraduate Curator**, Department of Biology Insect Collection
Baldwin-Wallace College

INTERNATIONAL INVITED SCIENTIFIC PRESENTATIONS

2018 Perry, KI, NC Hoekstra, Y Delgado de la Flor, and MM Gardiner. Dispersal limitations constrain ground-dwelling beetle assemblages in an urban ecosystem. Entomological Society of America, Vancouver, BC, Canada, November 12.

INVITED SCIENTIFIC PRESENTATIONS

2022 Perry, KI. A disturbance theory framework for studying insect ecology in forest ecosystems. Ecology and Environmental Science Seminar Series, Cleveland State University, November 18.

2022 Perry, KI. A disturbance theory framework for studying insect ecology in forest ecosystems. Department of Biological Sciences Seminar Series, Kent State University, October 21.

2022 Perry, KI. Forest entomology for all: Engaging students in the ecology and management of insects. Department of Entomology Seminar, The Ohio State University, May 17.

2022 Perry, KI. A disturbance theory framework for studying insect ecology and management in forest ecosystems. Department of Entomology Seminar, The Ohio State University, May 16.

2021 Perry, KI. Assembly of bumble bee communities along an urban-rural gradient. Department of Entomology Seminar Series, The Ohio State University, September 16.

2021 Perry, KI. Using a functional trait approach to study insect community ecology. 2021 Virtual North Central Branch Meeting, Entomological Society of America, June 22.

2021 Perry, KI, CB Riley, F Fan, J Radl, MM Gardiner, and DA Herms. The value of hybrid and nonnative ash for the conservation of ash specialists in regions invaded by emerald ash borer. 2021 North American Forest Insect Work Conference, May 27.

- 2021 Perry, KI. A disturbance theory framework for studying insect ecology and management. Department of Entomology Seminar, University of Florida.
- 2021 Perry, KI. The ecological niche: History, theory, and practice. Department of Entomology Seminar, Louisiana State University.
- 2021 Perry, KI. A disturbance theory framework for studying insect ecology and management in forest ecosystems. Department of Entomology Seminar, Louisiana State University.
- 2019 Perry, KI. Responses of ground-dwelling arthropods to disturbance in forest ecosystems. Department of Biology Seminar Series, Oberlin College, September 27.
- 2019 Perry, KI. Responses of ground-dwelling arthropods to disturbance: Implications for habitat management. Lake Erie Allegheny Partnership (LEAP) for Biodiversity Meeting, Western Reserve Land Conservancy, September 18.
- 2019 Perry, KI, NC Hoekstra, YA Delgado de la Flor, and MM Gardiner. Mechanisms of ground-dwelling beetle community assembly in an urban ecosystem. Biological Control Webinar Series, Midwest Biocontrol Working Group (NCERA 220), May 16.
- 2019 Perry, KI and DA Herms. Response of ground-dwelling invertebrates to temporal patterns of emerald ash borer-induced ash mortality. North Central Branch Entomological Society of America, Cincinnati, OH, March 20.
- 2019 Perry, KI, NC Hoekstra, YA Delgado de la Flor, and MM Gardiner. Mechanisms of ground-dwelling beetle community assembly in an urban ecosystem. North Central Branch Entomological Society of America, Cincinnati, OH, March 19.
- 2019 Perry, KI and MM Gardiner. Landscape and local drivers structuring beetle assemblages in an urban ecosystem. Ecology and Environmental Science Seminar Series, Cleveland State University, Cleveland, OH, February 8.
- 2018 Perry, KI, KF Wallin, JW Wenzel, and DA Herms. Response of the ground-dwelling invertebrate community following a tornado and salvage logging at Powdermill Nature Reserve. Ecological Society of America, New Orleans, LA, August 7.
- 2018 Perry, KI, KF Wallin, T Work, SL Pears, E Rodriguez, and J Erickson. Post-windstorm salvage harvest causes structural but not composition change in *Pinus strobus* L. stands. Ecological Society of America, New Orleans, LA, August 7.
- 2017 Perry, KI and MM Gardiner. The value of urban vacant land for arthropod biodiversity and conservation. 5th Annual Water and Land Symposium, Natural/Designed Ecologies, Kent State University, Kent, OH, October 5.
- 2017 Perry, KI and DA Herms. Response of ground-dwelling arthropods to temporal patterns of ash mortality caused by emerald ash borer. XXVIII USDA Interagency Research Forum on Invasive Species, Annapolis, MD, January 12.

- 2014 Perry, KI, Walker, RK, and DA Herms. Cascading ecological impacts of emerald ash borer: Effects of ash mortality on litter arthropod communities. North Central Branch Entomological Society of America, Des Moines, IA, March 12.

INTERNATIONAL CONTRIBUTED SCIENTIFIC PRESENTATIONS

† Graduate student mentee

- 2022 Shepard †, C, KI Perry, SB Scott, FS Sivakoff, KJ Turo, and MM Gardiner. Local and landscape drivers of bee taxonomic and functional trait diversity within vacant lots. Entomological Society of America, Vancouver, BC, Canada, November 14.
- 2022 Whiteman †, LB, KI Perry, and JP Strange. Bumble bee pathogens across an urban to rural gradient. Entomological Society of America, Vancouver, BC, Canada, November 14 (poster presentation).
- 2018 Tyrpak †, A, KI Perry, Y Delgado de la flor, and MM Gardiner. Ants as biological indicators of the value of urban vacant land as a conservation habitat. Entomological Society of America, Vancouver, BC, Canada, November 12.
- 2016 Perry, KI, Wallin, KF, Wenzel, JW, and DA Herms. Effects of forest disturbance on the movement of ground-dwelling invertebrates. XXV International Congress of Entomology, Orlando, Florida, September 26.
- 2012 Perry, KI and DA Herms. Emerald ash borer induced ash mortality impacts forest floor invertebrates and litter decomposition rates. 4th International EcoSummit, Columbus, OH, October 1.

CONTRIBUTED SCIENTIFIC PRESENTATIONS

‡ Undergraduate student mentee; † Graduate student mentee

- 2022 Cusser, S, NM Haddad, KI Perry, CA Bahlai. How long is long enough? Suspecting out long-term trajectories. 2022 NSF LTER All Scientists' Meeting, Pacific Grove, CA, September 22 (presentation and workshop).
- 2022 Shepard †, C, SB Scott, KI Perry, KJ Turo, FS Sivakoff, and MM Gardiner. Urbanization as a filter of a regional bee species pool. College of Food, Agricultural, and Environmental Sciences Graduate Student Competition, Columbus, OH, April 12 (poster presentation).
- 2022 Perry, KI, CA Bahlai, TJ Assal, and MM Gardiner. Multiple mechanisms lead to shifting communities of native lady beetles in favor of exotic species. North Central Branch, Entomological Society of America, Minneapolis, MN, March 21.
- 2021 Sakulich ‡, E, KI Perry, A Rohde, A Tripodi, H Ikerd, and JP Strange. An optimized sampling strategy for determining bumble bee (*Bombus*: Apidae) community composition. Entomological Society of America, Denver, CO, November 1.

- 2021 Whiteman † , LB, KI Perry, C Gratton, T Tai, and JP Strange. Distribution and prevalence of conopid parasitoids in bumble bees across an urban to rural gradient. Entomological Society of America, Denver, CO, November 1.
- 2021 Shepard † , C, SB Scott, KI Perry, KJ Turo, FS Sivakoff, and MM Gardiner. Urbanization as a filter of a regional bee species pool. Entomological Society of America, Denver, CO, November 2.
- 2021 Perry, KI, C Gratton, T Tai, and JP Strange. Functional trait diversity of bumble bees along an urban-rural gradient. Entomological Society of America, Denver, CO, October 31.
- 2021 Shepard † , C, SB Scott, KI Perry, KJ Turo, FS Sivakoff, and MM Gardiner. Urbanization as a filter of a regional bee species pool. The Department of Entomology Seminar Series, DeLong and Root Student Competition, October.
- 2020 Sayles ‡ , MW, KI Perry, R Laushman. Effects of emerald ash borer on beetle diversity in a NE Ohio forest preserve. Ecological Society of America, Virtual Student Poster Presentation, August 3-6.
- 2020 Tyrpak † , A, KI Perry, J Raczkowski, CB Riley, and MM Gardiner. Does the creation of pocket prairies improve the conservation value of urban vacant land for ant communities? Joint North Central Branch and Southwest Branch Entomological Society of America, Virtual Student Presentation, April 20.
- 2019 Perry, KI, PL Phelan, and MM Gardiner. Importance of landscape and local drivers for structuring ground-dwelling beetle communities in urban greenspaces. Entomological Society of America, St. Louis, MO, November 17.
- 2019 Tyrpak † , A, KI Perry, J Raczkowski, CB Riley, and MM Gardiner. Understanding how landscape pattern and history shape the ant communities occupying urban greenspaces. Entomological Society of America, St. Louis, MO, November 16.
- 2019 Taylor, L, CB Riley, KI Perry, K Turo, YA Delgado de la flor, FS Sivakoff, and MM Gardiner. A citizen science approach to evaluate how landscape context influences use of home garden habitats by native and exotic lady beetles. Entomological Society of America, St. Louis, MO, November 17.
- 2019 Perry, KI, NC Hoekstra, YA Delgado de la flor, and MM Gardiner. Dispersal ability of ground-dwelling beetles drives patterns of community assembly in an urban ecosystem. Ecological Society of America, Louisville, KY, August 13.
- 2019 Delgado de la flor, Y, KJ Turo, KI Perry, DM Parker, JL Thompson, and MM Gardiner. Local and landscape-scale features drive spider community assembly across urban greenspaces. Annual Research Conference, College of Food, Agriculture, and Environmental Sciences, The Ohio State University, Columbus, OH, April 22 (Poster).
- 2019 Perry, KI, NC Hoekstra, YA Delgado de la flor, and MM Gardiner. Urban landscapes are a strong dispersal filter for the assembly of beetle communities. Annual Research Conference, College of Food, Agriculture, and Environmental Sciences, The Ohio State University, Columbus, OH, April 22 (Poster).

- 2019 Tyrpak †, AM, KI Perry, YA Delgado de la flor, JM Raczkowski, and MM Gardiner. Does management frequency drive the conservation value of vacant land for ant communities? Annual Research Conference, College of Food, Agriculture, and Environmental Sciences, The Ohio State University, Columbus, OH, April 22 (Poster).
- 2019 Rogers ‡, MA, KI Perry, YA Delgado de la flor, MM Gardiner. Rich plant communities in urban greenspaces support abundant and diverse spider (Linyphiidae) assemblages. Spring Undergraduate Research Festival, The Ohio State University, Columbus, OH, March 26 (Poster).
- 2019 Dunkle ‡, EJ, KI Perry, and MM Gardiner. Body size of ground beetles (Coleoptera: Carabidae) decreases with urbanization. North Central Branch Entomological Society of America, Cincinnati, OH, March 18.
- 2019 Tyrpak †, AM, KI Perry, YA Delgado de la flor, JM Raczkowski, and MM Gardiner. Does management frequency drive the conservation value of vacant land for ant communities? North Central Branch Entomological Society of America, Cincinnati, OH, March 18.
- 2019 Rogers ‡, MA, KI Perry, YA Delgado de la flor, MM Gardiner. Rich plant communities in urban greenspaces support abundant and diverse spider (Linyphiidae) assemblages. 16th Annual Undergraduate Research Forum, The Ohio State University, Columbus, OH, March 6 (Poster).
- 2019 Dunkle ‡, EJ, KI Perry, and MM Gardiner. Body size of ground beetles (Coleoptera: Carabidae) across an urban-rural gradient. 16th Annual Undergraduate Research Forum, The Ohio State University, Columbus, OH, March 6 (Poster).
- 2019 Delgado de la flor, Y, KJ Turo, KI Perry, DM Parker, JL Thompson, and MM Gardiner. Spider functional diversity in urban greenspaces. 33rd Edward F. Hayes Graduate Research Forum, The Ohio State University, Columbus, OH, March 1 (Poster).
- 2019 Dunkle ‡, EJ, KI Perry, and MM Gardiner. Body size of ground beetles (Coleoptera: Carabidae) decreases with urbanization. 24th Annual Denman Undergraduate Research Forum, The Ohio State University, Columbus, OH, February 20 (Poster).
- 2018 Tyrpak †, AM, KI Perry, Y Delgado de la flor, JM Raczkowski, and MM Gardiner. Ants as biological indicators of the value of vacant land as a conservation habitat. Entomology Department Seminar Series, The Ohio State University, Columbus, OH, December 5.
- 2018 Tyrpak †, A. M., K. I. Perry, Y. Delgado de la flor, J. M. Raczkowski, and M.M. Gardiner. Ants as biological indicators of the value of vacant land as a conservation habitat. Graduate Student Dwight M. DeLong Oral Presentation Competition, The Ohio State University, Columbus, OH, November 2.
- 2018 Dunkle ‡, EJ, KI Perry, and MM Gardiner. Body size of ground beetles (Coleoptera: Carabidae) decreases with urbanization. 2018 Autumn Undergraduate Research Festival, The Ohio State University, Columbus, OH, November 1 (Poster).
- 2018 Perry, KI and MM Gardiner. Processes of ground-dwelling beetle community assembly in heterogeneous urban ecosystems. 2018 College of Food, Agricultural, and Environmental Sciences Annual Research Conference, The Ohio State University, Wooster, OH, April 27 (Poster).

- 2017 Perry, KI, and MM Gardiner. Regional and local processes of ground-dwelling beetle community assembly in urban greenspaces of Cleveland, Ohio. Entomological Society of America, Denver, Colorado, November 7.
- 2017 Perry, KI, Wallin, KF, Wenzel, JW, and DA Herms. Effects of forest canopy and understory disturbance on the movement of ground-dwelling arthropods. North Central Branch Entomological Society of America, Indianapolis, Indiana, June 6.
- 2016 Perry, KI, Wallin, KF, Wenzel, JW, and DA Herms. Response of ground-dwelling invertebrates to windthrow and salvage logging. Eastern Deciduous Forest Symposium, Powdermill Nature Reserve, Rector, Pennsylvania, November 12.
- 2016 Perry, KI. Response of ground-dwelling invertebrate communities to forest disturbance. Ph.D. Defense Seminar, Department of Entomology, Ohio State University, Wooster, OH, October 24.
- 2016 Perry, KI and DA Herms. Response of ground-dwelling invertebrate communities to temporal patterns of ash mortality. 2016 Emerald Ash Borer National Research and Technology Development Meeting, Ohio State University, Wooster, OH, October 19.
- 2016 Perry, KI, Wallin, KF, Wenzel, JW, and DA Herms. Forest disturbance increased ground beetle (Carabidae) species diversity. North Central Branch Entomological Society of America, Cleveland, Ohio, June 6 (Poster).
- 2016 Perry, KI, Wallin, KF, Wenzel, JW, and DA Herms. Forest disturbance increased ground beetle (Carabidae) species diversity. 2016 Ohio Agricultural Research and Development Center Annual Research Conference, The Ohio State University, Wooster, OH, April 21 (Poster).
- 2016 Perry, KI, Wallin, KF, Wenzel, JW, and DA Herms. Forest disturbance increased ground beetle (Carabidae) species diversity. USDA Interagency Research Forum on Invasive Species, Annapolis, MD, January 13 (Poster).
- 2015 Perry, KI, Wallin, KF, Wenzel, JW, and DA Herms. Forest disturbance increased ground beetle species diversity. Entomological Society of America. Minneapolis, MN, November 16.
- 2015 Perry, KI, Wallin, KF, and DA Herms. Effects of forest disturbance on ground-dwelling invertebrate dispersal. North Central Branch Entomological Society of America, Manhattan, Kansas, June 1 (Poster).
- 2015 Perry, KI, Wallin, KF, Wenzel, JW, and DA Herms. Response of ground beetles (Coleoptera: Carabidae) to forest disturbance. Disturbance and Salvage Logging Symposium, Powdermill Nature Reserve, Rector, Pennsylvania, May 29-30 (Poster).
- 2015 Perry, KI, Wallin, KF, and DA Herms. Effects of forest disturbance on ground-dwelling invertebrate dispersal. 2015 Ohio Agricultural Research and Development Center Annual Research Conference, The Ohio State University, Columbus, OH, April 16 (Poster).

- 2015 Perry, KI, Wallin, KF, and DA Herms. Effects of forest disturbance on ground-dwelling invertebrate dispersal. USDA Interagency Research Forum on Invasive Species, Annapolis, MD, January 14 (Poster).
- 2014 Perry, KI, Wallin, KF, Wenzel, JW, and DA Herms. Ground beetle response to forest disturbance: a test of the competition-colonization trade-off model. Entomological Society of America, Portland, OR, November 17.
- 2014 Perry, KI, Wallin, KF, Wenzel, JW, and DA Herms. Ground beetle response to forest disturbance: a test of the competition-colonization trade-off model. 27th Annual Ohio Valley Entomological Association Forum, The Ohio State University, Columbus, OH, October 31.
- 2014 Perry, KI, Walker, RK, and DA Herms. Effects of canopy gap formation and coarse woody debris caused by emerald ash borer-induced ash mortality on ground beetle (Coleoptera: Carabidae) assemblages. 2014 Emerald Ash Borer National Research and Technology Development Meeting, The Ohio State University, Wooster, OH, October 16.
- 2014 Perry, KI, Walker, RK, and DA Herms. Ash mortality caused by emerald ash borer alters forest floor invertebrate communities. 2014 Ohio Agricultural Research and Development Center Annual Research Conference, The Ohio State University, Wooster, OH, April 24 (Poster).
- 2014 Perry, KI, Walker, RK, and DA Herms. Ash mortality caused by emerald ash borer alters forest floor invertebrate communities. North Central Branch Entomological Society of America, Des Moines, IA, March 10 (Poster).
- 2014 Perry, KI, Walker, RK, and DA Herms. Ash mortality caused by emerald ash borer impacts ground beetle (Carabidae) assemblages. Midwest Ecology and Evolution Conference. University of Dayton, Dayton, Ohio, March 1.
- 2014 Perry, KI, Walker, RK, and DA Herms. Ash mortality caused by emerald ash borer alters forest floor invertebrate communities. 25th USDA Interagency Research Forum on Invasive Species. Annapolis, MD, January 7-10 (Poster).
- 2013 Perry, KI, Walker, RK, and DA Herms. Widespread ash mortality caused by emerald ash borer alters ground beetle (Carabidae) assemblages. Entomology Department Seminar Series, The Ohio State University, Wooster, OH, December 4.
- 2013 Perry, KI, Walker, RK, and DA Herms. Ash mortality caused by emerald ash borer alters ground beetle (Coleoptera: Carabidae) assemblages. Entomological Society of America, Austin, Texas, November 12.
- 2013 Perry, KI, Walker, RK, and DA Herms. Widespread ash mortality caused by emerald ash borer impacts ground beetle (Coleoptera: Carabidae) assemblages. 2013 Ohio Agricultural Research and Development Center Annual Research Conference, The Ohio State University, Columbus, OH, April, 25 (Poster).

- 2012 Perry, KI, RK Walker, and DA Herms. Ash mortality caused by emerald ash borer alters the forest floor environment and invertebrate community. Entomological Society of America, Knoxville, TN, November 12.
- 2012 Perry, KI and DA Herms. Ash mortality caused by emerald ash borer impacts forest floor invertebrate diversity and abundance. The Ohio Valley Entomological Association 25th Annual Forum, Cincinnati, OH, October 26.
- 2012 Perry, KI, and DA Herms. Emerald ash borer induced tree mortality impacts forest floor invertebrates. 2012 Ohio Agricultural Research and Development Center Annual Conference, The Ohio State University, Wooster, OH, April 26 (Poster).
- 2012 Perry, KI, Walker, RK, and DA Herms. Effects of emerald ash borer (*Agrilus planipennis*) induced ash mortality on forest soil environments. Midwest Ecology and Evolution Conference, University of Cincinnati, Cincinnati, OH, March 24 (Poster).
- 2012 Perry, KI and DA Herms. Effects of EAB-induced ash mortality on soil invertebrates in Michigan. EAB Managers Research Update, Lake Erie Metroparks, Brownstown, Michigan, February 27.
- 2012 Perry, KI, RK Walker, and DA Herms. Effects of emerald ash borer-induced ash mortality on forest soil microenvironments. Edward F. Hayes Graduate Research Forum. The Ohio State University, Columbus, OH. February 24 (Poster).
- 2011 Perry, KI, RK Walker, and DA Herms. Effects of emerald ash borer (*Agrilus planipennis*) induced ash mortality on forest soil microenvironments. Entomological Society of America Annual Meeting, Reno, Nevada, November 14 (Poster).
- 2011 Perry, KI and DA Herms. Effects of emerald ash borer induced ash mortality on the forest floor invertebrate community. Department of Entomology M.S. Graduate Proposal Seminar, The Ohio State University, Wooster, Ohio, November 2.
- 2011 Perry, KI and DA Herms. Effects of emerald ash borer induced ash mortality on soil invertebrates. Emerald Ash Borer Research and Technology Development Meeting. Wooster, Ohio, October 12 (Poster).
- 2010 Petry, WK, KI Perry, and KA Mooney. Ant-aphid interactions are mediated by host plant sex and ant colony nutritional status. Ecological Society of America, Pittsburgh, Pennsylvania.
- 2010 Perry, KI, WK Petry, and KA Mooney. Host plant sex influences ant-aphid mutualisms. Baldwin-Wallace College, Ovation Symposium, Berea, Ohio (Poster).
- 2009 Perry, KI, WK Petry, and KA Mooney. Host plant sex influences ant-aphid mutualisms. Baldwin-Wallace College, Department of Biology, Senior Seminar. Berea, Ohio, September 11.
- 2009 Perry, KI, WK Petry, and KA Mooney. Variation in host plant sex mediates ant-aphid interactions. Rocky Mountain Biological Laboratory REU Symposium, Gothic, Colorado.

- 2009 Hertz, KL, KI Perry, and MN Melampy. Determinants of fruit production in mayapple (*Podophyllum peltatum*) in the Cleveland Metroparks. Ecological Society of America, Albuquerque, New Mexico.
- 2009 Ballash, G, KI Perry, and RC Stanton. Assessing wetland type at Dike-14 using physical and biological indicators. Midwest Ecology and Evolution Conference, Lincoln, Nebraska (Poster).
- 2009 Perry, KI, M Post, and B Spirakus. Induction of anthocyanin production as a response to mechanically induced herbivory in tomato (*Lycopersicon esculentum*). Baldwin-Wallace College, Ovation Symposium, Berea, Ohio (Poster).

EXTENSION ACTIVITIES

Citizen Science Projects

- 2019-2020 Dandelion Detectives (<https://u.osu.edu/dandeliondetectives/>)
- 2017-2019 Pollination Investigators (<https://u.osu.edu/pollinationinvestigators/>)

Fact Sheets

- 2016 Perry, KI, J Boggs, A Stone, and DA Herms. Asian Longhorned Beetle (*Anoplophora glabripennis*). The Ohio State University Extension, 6 pp. (<http://ohioline.osu.edu/factsheet/ent-75>); v2 updated August 2022

Interviews

- 2021 What drives bumble bee community composition? Andony Melathopoulos, PolliNation Podcast, Oregon State University Extension Service. (<https://extension.oregonstate.edu/podcast/pollination-podcast/199-kayla-perry-what-drives-bumble-bee-community-composition>)
- 2021 From Forests to Cities: One Entomologist's Journey to Understand What's Disturbing Insects, Karl Roeder, Standout Early Career Professionals Series, Entomological Society of America. (<https://entomologytoday.org/2021/02/18/forests-cities-entomologist-understand-disturbing-insects-kayla-perry-standout-early-career-professional/>)

Extension and Outreach Presentations

- 2023 Perry, KI. Status of emerald ash borer in post-outbreak forests. Escape to the Forest Webinar Series, Ohio Woodland Stewards Program, February 10. Online presentation, 270+ attendees.
- 2023 Perry, KI. Exotic insects that threaten urban forests in Ohio. Ohio Commercial Pesticide Applicators 2023 Recertification Conference, January 12, Akron, OH.
- 2022 Perry, KI. Solving conifer problems. The Ohio State University Extension Educator Inservice for Pesticide Safety Education, The Ohio State University, December 14, Columbus, OH. 77 attendees
- 2022 Stone, A, T deHaas, KI Perry, and E Draper. The unwanted – an invasive species update from Ohio. The Ohio State University Short Course: Landscape Pests Track, Ohio Turfgrass Foundation Conference and Show, Greater Columbus Convention Center, December 7, Columbus, OH. EEET collected, 30 attendees.

- 2022 Perry, KI and A Stone. Pests to be on the look-out for. Ohio Landscape Association, Plant Healthcare Day, Secrest Arboretum, October 13, Wooster, Ohio. EEET collected, 50-60 attendees.
- 2022 Perrone, J and KI Perry. Supporting native insects in your backyard. Reeds and Roots Skillshare, Fred Fuller Park, August 20, Kent, OH.
- 2022 Perry, KI. How does urbanization shape the insect communities found in cities? Suds & Sciences Series, Vermont Center for EcoStudies - Uniting People and Science for Conservation, March 2 (online presentation).
- 2021 Perry, KI. The value and conservation of ground-dwelling invertebrates in urban ecosystems. Master Gardener Virtual Coffee Talks, February 3, The Ohio State University (online presentation).
- 2018 Mularo, AJ, KI Perry, and MM Gardiner. Pollination Investigators. A Bug's Life in the City: The Often Unseen Biodiversity that Surrounds Us and Why it Matters, April 28, The Ohio State University, Columbus, OH.
- 2018 Perry, KI and DA Herms. Impacts of disturbance caused by emerald ash borer on ground-dwelling invertebrate communities. Ohio Ecology on Tap, April 5, Spacebar, Columbus, OH.
- 2017 Perry, KI. Preparing Undergraduate Research Insect Collections. College of Wooster, June 30, Wooster, OH.
- 2017 Perry, KI and WS Klooster. Interactive Presentation with Live and Pinned Insects. Colerain Elementary School, February 1, Columbus, OH. Kindergarten-5th grade, 15 students
- 2016 Perry, KI. Collecting and Preserving Insects. The Ohio State University Department of Entomology, A Bug's World Workshop, March 10, OARDC, Wooster, OH.
- 2015 Perry, KI. Ohio's Trees Under Siege: The Threat Posed by Invasive Insects to our Urban Forests. Urban Landscape Pest Management Workshop, September 15, The Ohio State University, Columbus, Ohio.
- 2015 Perry, KI. Collecting and Preserving Insects. The Ohio State University Department of Entomology, A Bug's World Workshop, March 24, OARDC, Wooster, OH.
- 2014 Perry, KI. Good Garden Beetles. The Ohio State University, Department of Entomology, Secret Lives of Good Garden Bugs Workshop and Buckeye Lady Beetle Blitz Volunteer Round-Up, May 14, OARDC, Wooster, OH.
- 2014 Perry, KI. Collecting and Preserving Insects. The Ohio State University Department of Entomology, A Bug's World Workshop, April 9, OARDC, Wooster, OH.
- 2013 Perry, KI and LC Long. Collecting and Preserving Insects. The Ohio State University, Department of Entomology, A Bug's World Workshop, April 17-18, OARDC, Wooster, OH.
- 2012 Perry, KI, Rice, KB, and LC Long. Ecological Impacts of Emerald Ash Borer. Kensington Metropark Nature Center, Heron Days, May 19-20, Milford, MI.

- 2012 Perry, KI and LC Long. Collecting and Preserving Insects. The Ohio State University, Department of Entomology, A Bug's World Workshop, April 26, OARDC, Wooster, OH.
- 2011 Perry, KI. Bug Zoo. The Ohio State University, Department of Entomology, Insect Night Walk, July 16, Wooster, OH.
- 2011 Perry, KI, Klooster, WS, and KB Rice. Ecological Impacts of Emerald Ash Borer. Kensington Metropark Nature Center, Heron Days, May 21-22, Milford, MI.

PROFESSIONAL AFFILIATIONS

Entomological Society of America
 Ecological Society of America
 The Coleopterists Society
 The Ohio Coleopterists Society
 Society of Conservation Biology
 Ohio Valley Entomological Association
 Ohio Academy of Science
 American Association for the Advancement of Science (AAAS)