

CALEB J. WILSON

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EDUCATION

Ph.D. Entomology , North Carolina State University, Raleigh, NC.	2022
M.S. Biology , Oakland University, Rochester, MI.	2018
B.S. Environmental Sciences , The University of Iowa, Iowa City, IA.	2016

RESEARCH EXPERIENCE

Assistant professor at the University of Kentucky Department of Entomology	August 2023 – Present
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Postdoctoral research associate at Michigan State University Department of Entomology Advisors: Drs. Deborah McCullough, Therese Poland, & Toby Petrice	July 2022 – July 2023
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Ph.D. research at North Carolina State University Department of Entomology Advisor: Dr. Steven Frank	January 2019 – July 2022
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M.S. research at Oakland University Department of Biological Sciences Advisor: Dr. Mary Jamieson	January 2017 – December 2018
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Undergraduate research at the University of Iowa Advisor: Dr. Heather Sander	June 2016 – December 2016
Advisor: Dr. Andrew Forbes	January 2016 – December 2016
Advisor: Dr. Steven Hendrix	August 2015 – December 2016

PUBLICATIONS:

* Indicates graduate student from the Wilson Lab

14. **Wilson C.J.** and *York, Z.K. 2025. Effect of selected insecticides on calico scale in landscape honey locust trees., 2024. *Arthropod Management Tests*. 50(1). <https://doi.org/10.1093/amt/tsaf099>
 - Efficacy experiment led by myself and one of my graduate students at UK.
13. **Wilson C.J.**, Labbate L.L., Petrice T.R., Poland T.M., McCullough D.G. 2025. Ongoing regeneration of ash and co-occurring species 20 years following invasion by emerald ash borer. *Forest Ecology & Management*. 580, p.122546. <https://doi.org/10.1016/j.foreco.2025.122546>
 - The second publication I led from my postdoc research. Most of the writing and analyses were conducted while I was faculty at UK.
12. Schulte K.D., **Wilson, C.J.**, Tawril, A., Jamieson, M.A. 2025. Spatiotemporal variation in strawberry pollinators across a rural-urban gradient. *Ecosphere*. 16(1), p.e70133. <https://doi.org/10.1002/ecs2.70133>
 - Contributed data as an M.S. student. Contributed to the writing while faculty at UK.

11. Pak T. T. and 144 authors including **Wilson C.J.** 2025. Land Use Change Consistently Reduces α -But Not β -and γ -Diversity of Bees. *Global change biology*, 31(1), p.e70006.
<https://doi.org/10.1111/gcb.70006>
 - Contributed data to this project as a M.S. student.
10. **Wilson C.J.**, Petrice T.R., Poland T.M., McCullough D.G. 2024. Tree species richness and ash density have variable effects on emerald ash borer biological control by woodpeckers and parasitoid wasps in post-invasion white ash stands. *Environmental Entomology*. 53(3), 1-17.
<https://doi.org/10.1093/ee/nvae060>
 - The first paper I led from my postdoc research. Final draft and revisions were completed at UK.
9. **Wilson C.J.** and Bertone M.A. 2024. Ecology and management of the crape myrtle aphid (Hemiptera: Aphididae) on crape myrtle (Myrtales: Lythraceae) in the southern United States. *Journal of Integrated Pest management*. 15(1), 11, 1-9. <https://doi.org/10.1093/jipm/pmae003>
 - A side project from my PhD which I completed the final draft and revisions at UK.
8. **Wilson C.J.**, Backe K.M., Just M.G., Lahr E.C., Nagle A.M., Long L.C., Dale A.G., Frank S.D. 2023 Tree species richness around urban red maples reduces pest density but does not enhance biological control. *Urban Forestry and Urban Greening*. 88.
<https://doi.org/10.1016/j.ufug.2023.128093>
 - The final paper I led from my dissertation research. Revisions completed while at UK.
7. **Wilson C.J.**, and Frank S.D. 2023. Scale insects contribute to spider conservation in urban trees and shrubs *Journal of Insect Conservation*. 27, pp.479-492. <https://doi.org/10.1007/s10841-023-00471-1>
 - The third paper from my dissertation research. Completed while a postdoc at MSU.
6. **Wilson C.J.**, and Frank S.D. 2023. Urban tree pests can support biological control services in landscape shrubs. *BioControl*, 68, pp.375-386. <https://doi.org/10.1007/s10526-023-10192-8>
 - The second paper from my dissertation. Completed while a postdoc at MSU.
5. **Wilson C.J.** and Frank S.D. 2022. Scale insects support natural enemies in both landscape trees and shrubs below them. *Environmental Entomology*. 51(6), pp.1094-1105.
<https://doi.org/10.1093/ee/nvac081>
 - The first paper from my dissertation. Completed while a postdoc at MSU.
4. Fitch G., **Wilson C.J.**, Glaum P., Vaidya C., Carolina-Simao M., Jamieson M.A. 2019. Does urbanization favour exotic bee species? Implications for the conservation of native bees in cities. *Biology Letters*. 15(12): 20190574. <https://doi.org/10.1098/rsbl.2019.0574>
 - A collaborative side-project from my M.S. thesis. I initiated the collaboration and both me and the lead author in the published order contributed equally to the manuscript. Completed at NCSU.
3. **Wilson C.J.**, and Jamieson M.A. 2019. The effects of urbanization on bee communities depends on floral resource availability and bee functional traits. *PLOS One*. 14(12). e0225852.
<https://doi.org/10.1371/journal.pone.0225852>
 - My M.S. thesis research. Completed while a graduate student at NCSU.

2. Jamieson M.A., Carper A.L., **Wilson C.J.**, Scott V., Gibbs J. 2019. Geographic biases in bee research limits understanding of species distribution and response to anthropogenic disturbance. *Frontiers in Ecology and Evolution*. 7, p.194. <https://doi.org/10.3389/fevo.2019.00194>
 - A side project from my M.S. thesis research initiated by my advisor. I co-wrote and edited and contributed data.
1. Forbes A.A., Devine S.N., Hippee A.C., Tvedte E.S., Ward A.K., Widmayer H.A. and **Wilson C.J.**, 2017. Revisiting the particular role of host shifts in initiating insect speciation. *Evolution*, 71(5), pp.1126-1137. <https://doi.org/10.1111/evo.13164>
 - A review paper I contributed writing and edits to as an undergraduate at UI.

OUTREACH ARTICLES:

7. **Wilson C.J.** *In Press*. Ash continues to regenerate in forests invaded by emerald ash borer for 20 years. *National Woodlands*. 48(3).
6. **Wilson C.J.** 2024. Emerald Ash Borer: Study Offers Mixed Signals on Drivers of Effective Biological Control. *Entomology Today*. <https://entomologytoday.org/2024/08/01/emerald-ash-borer-drivers-effective-biological-control-ash-trees-parasitoids/>
5. **Wilson C.J.** 2024. Crapemyrtle Aphid: A Cosmopolitan Pest of a Popular Ornamental Tree. *Entomology Today*. <https://entomologytoday.org/2024/03/06/crapemyrtle-aphid-popular-ornamental-tree-integrated-pest-management/>
4. **Wilson C.J.** 2023. Are Trees in Species-Rich Urban Plantings Less Susceptible to Pest Damage? *Entomology Today*. <https://entomologytoday.org/2023/11/17/urban-trees-species-diversity-less-pest-damage-scale-insects/>
3. **Wilson C.J.** 2023. Scale Insects on Urban Trees Benefit Spiders, Other Natural Enemies in Plants Below. *Entomology Today*. <https://entomologytoday.org/2023/04/26/scale-insects-urban-trees-benefit-spiders-natural-enemies/>
2. **Wilson C.J.** 2023. Emerald Ash Borer Biological Control. *Emeraldashborer.info* <http://www.emeraldashborer.info/biological-control>
1. **Wilson C.J.** 2022. Why a Little Bit of This Tree Pest is a Good Thing in Urban Landscapes. *Entomology Today*. <https://entomologytoday.org/2022/10/26/why-tree-pest-good-urban-landscapes-scale-insects-natural-enemies/>

FUNDING:

Year	Funding applied for	Funded proposals	Gifts	Total acquired
2024	\$640,258	\$44,000	\$29,044	\$73,044
2025	\$223,759	\$4,400	\$32,300	\$36,700
Total	\$864,017	\$48,400	\$61,344	\$109,744

Completed, awaiting submission:

\$324,728 **Wilson C.J.**, Quesada C., Larson J.L.

USDA NIFA CPPM

Improving Scale Insect Biological Control In Landscape Trees By
Understanding Natural Enemy Linkages Between Trees And Lawns
Duration: 2026-2027

Note: Proposal is complete and ready to submit. Original RFP had a submission date of March 6th 2025, but was taken down for review and has not been reposted yet.

Pending:

\$57,181	Wilson C.J. and Wang Z. USDA APHIS: PPA 7721: Plant Pest and Disease Management and Disaster Prevention Program Use of aqueous ozone to improve chemical control of invasive scale insect pests Duration: 2026 - 2027	2025
\$34,985	Wilson C.J. Horticultural Research Institute Intraspecific variation in red maple cultivars to armored and soft scale insects and ability of red maple blooms and early-stage scale infestations to attract natural enemies and regulate pests. Duration: 2026 – 2027	2025
\$34,979	Wilson C.J. and Wang Z. Horticultural Research Institute Use of ozone as a method of enhancing insecticide efficacy for crapemyrtle bark scale and crapemyrtle aphid. Duration: 2026 – 2027	2025
\$149,395	Wilson C.J. United States Golf Association Can transitioning to drought-resistant turfgrasses provide added value by suppressing insect pests, earthworm casting, and pesticide inputs on golf courses? Duration: 2026 - 2028	2025

Awarded:

\$4,400	Wilson C.J. University of Florida: IR4 25-004 New Pest Products Crop Safety – Foliar Duration: 2025 - 2026	2025
\$25,000	Wilson C.J. TREE Fund – John Z. Duling grant program Ability of ant exclusion via basal trunk insecticide sprays to sustainably manage soft scale insect infestations in urban landscape trees Duration: 2025 - 2026	2024
\$14,000	Wilson C.J. University of Florida: IR4 24-002.24 Calico Scale Efficacy Duration: 2024 - 2025	2024

\$5,000	Sena, Kenton, Wilson C.J. UK CURATE 2024 Reforesting the Bluegrass: Evaluating the effects of urban reforestation on insect communities Duration: 2025 - 2025	2024
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Rejected:

\$29,999	Wilson C.J. Southern IPM Center – Seed Grant Program Development of preventive management strategies for scale insect pests in ornamental trees. Duration: 2025 - 2026 Ranking: Fair	2024
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\$267,560	Wilson C.J. USDA-NIFA-AFRI program code: A1112: Title: Flowering shrubs as banker plants to support natural enemies and biological control services in urban landscapes. Duration: 2025 – 2027 Ranking: Low Priority	2024
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\$100,000	Wilson C.J. Golf Course Superintendents Association of America (GCSAA): Sustainable Golf Course Turfgrass and Other Landscape Management Title: Improving management strategies for annual bluegrass weevil (<i>Listronotus maculicollis</i>) in transition zone golf courses. Duration: 2025 - 2027	2024
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\$198,699	Wilson C.J., Larson, J.L. USDA-NIFA-CPPM Title: Improving Scale Insect Biological Control In Landscape Trees By Understanding Natural Enemy Linkages Between Trees And Lawns Duration 2024 – 2026 Ranking: Medium priority	2024
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Grant-in-aid insecticide efficacy trials:

\$8,700	Sponsor: PBI Gordon. Protocol Number: 252006 Project: Efficacy of Ornamental Insecticides on Japanese Beetle	2025
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\$9,600	Sponsor: Syngenta. Protocol Number: ICV801A3-2025US Project: Evaluation of reduced rate of plinazolin and plinzaolin + chlorantraniliprole premix for control of billbug in turfgrass.	2025
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\$6,000	Sponsor: Syngenta. Protocol number: ICH803A3-2025US Project: Evaluate Acelepryn Xtra MUP for control of Billbug on turfgrass.	2025
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\$8,000	Sponsor: Syngenta. Protocol number: MSG- FT2- 2025 Project: WeevilTrak 2.0 Model Validation	2025
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\$8,000	Sponsor: Syngenta. Protocol number: MSG-2024-FT2 Project: Efficacy of baits and foliar sprays on turfgrass ants in tee boxes.	2024
\$9,900	Sponsor: PBI Gordon. Protocol number: 242005 Project: Efficacy of foliar sprays to Redmond Linden on Japanese beetle herbivory and mortality.	2024
\$11,144	Sponsor: FMC Corporation. Project: Efficacy of chlorantraniliprole and cyantraniliprole drenches on Emerald Ash Borer mortality.	2024

Mentored student grants and awards:

* indicates graduate student

+ indicates undergraduate student

\$3,038.64	Student: *Zoë York University of Kentucky Student Sustainability Council	2025
\$1,475	Student: Zoë York University of Florida: Invasive Ant Boot Camp Scholarship	2025
\$5,000	Student: +Zoe McComas University of Kentucky Summer Sustainability Fellowship	2025

MENTORSHIP:

Graduate students:

Zoë York – PhD Entomology Starting semester Spring 2024

- Thesis research examines 1) how flowering shrubs can enhance scale biocontrol, 2) how the substrate used below trees influences ant-scale mutualisms, 3) If basal trunk sprays and insecticidal baits effectively disrupt ant-scale mutualisms and enhance biocontrol.
- Zoe has received two competitive awards, and presented at three conferences.

Ben Knowlton – PhD Entomology Starting semester Spring 2024

- Thesis research examines 1) scale-natural enemy density relationships in urban and rural landscapes, 2) how to quickly monitor scale infestations to make intervention decisions in multiple species, and 3) intraspecific host plant resistance to armored and soft scales
- Ben has received two research awards for his presentations and has presented at three conferences.

Undergraduate students:

Sadie Collins - NRE 395 (Research) Internship Summer 2024 – Spring 2025

- Sadie gained research experience with pesticide trials, field work, data collection, and data processing as part of her internship experience for her degree program. Sadie shared her internship experience via a poster presentation at the NRE 400 poster forum in Spring 2025

Zoe McComas – UK Sustainability Fellowship – Summer 2025

- Project investigates the impact of forest age on emerald ash borer establishment and ash regeneration and coarse woody debris production.

Zoe and Zachary McComas – independent study project – Summer 2024, Fall 2024

- Project investigated the impact of forest age on natural enemy abundance within forest fragments and spillover to adjacent landscapes.

- Students received a 2nd place award at the 2024-2025 UK Oswald Research & Creativity Competition for their project.

RESEARCH PRESENTATIONS SINCE JOINING UK:

* Indicates presenting author, + indicates Wilson Lab graduate student

***Wilson, C.J.**, Labbate, L. Petrice, T.R., Poland, T.M., McCullough, D.G. *Current Status of Emerald Ash Borer Parasitoids and their Integration with Insecticide Treatments.* 2025
Ohio River Valley Invasive Species Conference, Burlington. KY.

***Wilson C.J.** and +Knowlton, B.D. *Development and implementation of action thresholds for scale insects in landscape trees.* 2025
Entomological Society of America Southeastern Branch Meeting. Baton Rouge, LA.

***Wilson, C.J.**, Labbate, L. Petrice, T.R., Poland, T.M., McCullough, D.G. *How Effective Are Emerald Ash Borer Parasitoids, and Can We Integrate Them with Insecticide Treatments?* 2025
The Virginia Association of Forest Health Professionals 33rd Annual Conference Staunton, VA.

***Wilson, C.J.** and +Knowlton, B.D. *When Should We Tolerate Scale Insect Infestations in Urban Trees?* 2025
The Virginia Association of Forest Health Professionals 33rd Annual Conference Staunton, VA.

***Wilson, C.J.**, +Knowlton B.D., +York Z.K. *Opportunities to simultaneously manage pests and conserve arthropods in urban landscapes.* 2024
P-IE Section Symposium "Ecology and Management of Natural Enemies in Urban Ecosystems" Entomology 2024. Phoenix, AZ.

***+York, Z.K.**, and **Wilson, C.J.** *From the ground up: How Substrate Influences Ant-Scale Mutualism in Urban Trees".* 2024
Grad 10-min Competition: P-IE, Ecology, Entomology Society of America Annual Meeting, Phoenix, AZ.

***+Knowlton, B.D.** and **Wilson C.J.**, *Quantifying lecanium scale infestations, consequences for tree condition, and evaluation of management techniques.* 2024
P-IE Section IPM - Horticulture. Entomology 2024. Phoenix, AZ.

***+Knowlton, B.D.** and **Wilson C.J.** *Quantifying the distribution of lecanium scale infestations, consequences for tree condition, and evaluation of management techniques.* 2024
Ohio Valley Entomological Association. Lexington, KY.

- Second place award winner for research presentations.

***+York, Z.K.**, & **Wilson, C.J.** *Exploring the relationship between landscaping choices, ants and soft scale insects in urban trees.* 2024
Ohio Valley Entomology Association. Lexington, KY

***McCullough, D.G.**, P. Engelken, N.W. Siegert, R. Mathieu and **C. Wilson.** *EAB and black ash in the Lake States: why the northeast may be the last best hope for black ash.* 2024
Future of brown (black) ash Workshop to share indigenous and scientific perspectives. October, University of Maine, Orono Maine.

***McCullough, D.G.**, N.W. Siegert, P. Engelken, R. Mathieu and **C. Wilson.** 2024

Emerald ash borer and black ash: What do we know and what can we do?
Chippewa National Forest, MN. April. Virtual presentation.

***Caleb J. Wilson**, Toby R. Petrice, Therese M. Poland, and Deborah G. McCullough. 2023
Tree diversity and ash density have variable effects on emerald ash borer predators and parasitoids.
P-IE Biodiversity symposium. Entomology 2023. National Harbor, MD.

***Caleb J. Wilson** and Steven D. Frank. *Environmental Entomology People's Choice* 2023
Runner-Up: Scale insects support natural enemies in both landscape trees and shrubs below them.
Environmental Entomology and Journal of Economic Entomology Awards and Overview: Inspiring Authors. Entomology 2023. National Harbor, MD.

Caleb J. Wilson, Therese Poland, *Toby Petrice, and Deborah McCullough. *Integrating* 2023
Biological Control and Systemic Insecticides for Area-Wide Management of Emerald Ash Borer.
Strategies and Tactics for Managing Ash and Elm Species in Forest Landscapes. Superior, WI.

Caleb J. Wilson, *Therese Poland, Toby Petrice, and Deborah McCullough. *Integrating* 2023
Biological Control and Systemic Insecticides for Area-Wide Management of Emerald Ash Borer.
Strategies and Tactics for Managing Ash and Elm Species in Urban Forests.
Baltimore, MD.

*McCullough, D.G., **C. J. Wilson**, and R. Mathieu+. *Living with emerald ash borer in our* 2023
post-invasion world. International Society of Arborists, Michigan chapter,
annual conference (ArborCon). Webinar (virtual presentation).

POSTER PRESENTATIONS SINCE JOINING UK:

* Indicates presenting author, + indicates graduate student, # indicates undergraduate student

*+Knowlton, B.D., **Wilson, C.J.** *Creation of action thresholds and efficacy of insecticides for* 2025
oak lecanium scale. Entomological Society of America – North Central Branch Meeting 2025.
Lincon, NE.

- Third place masters poster award winner

*#Zachary McComas, *#Zoe McComas, Kenton Sena, **Caleb Wilson**. *Do urban forest* 2025
fragments conserve insect natural enemies within forests and surrounding landscapes?
Kentucky Native Plant Society: Wildflower Weekend, Grayson, KY.

*+York, Z.K., **Wilson, C.J.** *Planting flowering shrubs below scale-infested* 2024
urban trees as a sustainable method to protect tree health.
One Health Symposium. Lexington, KY

TEACHING EXPERIENCE SINCE JOINING UK:

ENT 320-001: Horticultural Entomology Fall 2024 (11 students), Fall 2025 (18 students)

- Course consists of four modules: 1) Introduction to horticultural arthropods, 2) Pest management strategies, 3) Urban landscape IPM, 4) Agronomic and specialty crop IPM.
- Weekly schedule consists of two, fifty-minute lectures and one, two-hour lab section.
- Several field trips are taken in-lieu of a traditional lab in certain weeks of the semester. These field trips allow students to conduct in-field experiments to learn about experimental design principles, interact with pest management professionals in industry, allow students to see relevant

insect pests and damage in the field, and learn about the realities of managing pests in different systems.

- Students complete a semester-long photo collection of 40 insects of which 30 specimens need to cover 30 different horticultural pest categories. Students describe damage and management interventions for each pest species.
- Students initiate a common garden experiment, collect data from research plants, and write up results in a lab report.

ENT 320-201: Horticultural Entomology

Fall 2025 (28 students)

- A fully online, asynchronous version of ENT 320. Structure and content is the same as the in-person section of ENT 320 detailed above.

ENT 110-201: Insect Biology

Spring 2024 (160 students)

- 160 students in an online asynchronous course that satisfies a UK Core general education requirement: Intellectual Inquiry in the Natural, Physical and Mathematical Sciences.
- Course consists of four modules which cover 1) insect taxonomy and diversity 2) insect structure and function, 3) Insect ecology and evolution, 4) Insect interactions with humans.
- Every week students watch 3 recorded lectures, 3 supplemental videos, one interview with an entomologist at the University of Kentucky, and students read one popular press article on a topic relevant to lecture material. There are weekly assignments on all course material and four exams.
- Students have one “lab” based assignment where they work in groups and rear fall armyworm caterpillars at different temperatures and assess how temperature affects growth and development.
- Students have a “find five live insects” assignment where they have to take photos of insects from five different orders out in nature.

Guest lectures at UK:

Conserving bees in urban landscapes

Fall 2024

ENT 209: Bees and People

- 30 undergraduate students

Urban tree pest ecology and management

ENT 320: Horticultural Entomology

Fall 2023

- 13 undergraduate students

Insect conservation in urban landscapes

Fall 2023

ENT 695: Special Topics: Arthropod conservation and ecosystem services

- 15 graduate students

OUTREACH PRESENTATIONS SINCE JOINING UK:

Emerald ash borer IPM and update on biological control agents

2025

KY Turf & Landscape Management Short Course makeup webinar

Remote

30 adult attendees

Viewing managed landscapes as ecosystems: implications for biological control

2024

47th Annual KY Turf & Landscape Management Short Course

Elizabethtown, KY.

112 adult attendees

Update on the status of Emerald Ash Borer biocontrol 2024
Kentucky forest health conference 2024
Lexington, KY.
240 adult attendees.

The bugs of boxwoods: biology and solutions 2024
Green industry conference 2024
Sharonville, OH.
103 adult attendees. 78 male, 25 female.

SYMPOSIA ORGANIZED:

Ecology and Management of Natural Enemies in Urban Ecosystems 2024
Organizers: **Wilson, C.J.** and Ward S.D.
Entomology 2024. Phoenix ,AZ. P-IE Section Symposium
Format: seven, 15 minute presentations delivered primarily by early career-researchers

PEER REVIEW EXPERIENCE SINCE JOINING UK:

Grants:

ESA: Henry and Sylvia Richardson Research Grant 2025
TREE Fund: Hyland Johns program 2024
NSF DEB program ad-hoc reviewer 2024

Manuscripts:

Journal of Insect Conservation 2025
Arboriculture and Urban Forestry 2025
Urban Ecosystems 2024(2), 2025
Environmental Entomology 2023, 2024
Neobiota 2024
Frontiers in Sustainable Cities 2023

SERVICE:

Department:

Nighttime Critter Crawl – August 2023
• Co-ran an invasive species outreach booth
Reviewer for graduate student thesis/dissertation proposal/exit seminars:
• Fall 2023, Spring 2024, Fall 2024, Spring 2025
Reviewer of graduate student poster presentations – Faculty retreat 2024

Professional Society:

Entomological Society of America Annual Meeting 2023. National Harbor, MD.
• Symposium co-host – PI-E 1
• Reviewer for graduate student presentations: Ecology - 1
Entomological Society of America Annual Meeting 2024. Phoenix, AZ.
• Symposium co-organizer – PI-E Section Symposia

- Reviewer for graduate student poster presentations
Entomological Society of America Southeastern Branch Meeting 2025. Baton Rouge, LA.
- Reviewer for PhD student 10 minute presentations: PhD 3

MEDIA APPEARANCES:

New research offers hope in the war against the emerald ash borer 2025
<https://news.jrn.msu.edu/2025/03/new-research-offers-hope-in-the-war-against-the-emerald-ash-borer/>

PROFESSIONAL DEVELOPMENT SINCE JOINING UK:

Coaching Students on Reading: Strategies for Higher Education Success	2025
University of Kentucky Center for the Enhancement of Teaching and Learning	
Instructors: Shawna Felkins, Kate Collins, Laura Carter-Stone	
Inviting Students to Reflect on Their Learning: Exam Wrappers and Other Strategies	2025
University of Kentucky Center for the Enhancement of Teaching and Learning	
Instructors: Mike Wallace, Laura Carter-Stone	
Better Practices in Student Group Work	2025
University of Kentucky Center for the Enhancement of Teaching and Learning	
Instructors: Jennifer Pusateri, Madeline Aulisio Miller, Laura Carter-Stone	
Designing Slides To Reduce Cognitive Load & Support Memory	2024
University of Kentucky Center for the Enhancement of Teaching and Learning	
Instructors: Jennifer Pusateri and Madeline Aulisio Miller	
Write winning grant proposals workshop - Core workshop and USDA workshop	2024
Grant Writer's Seminars and Workshops	
University of Kentucky	
Martin-Gatton College of Agriculture, Food and Environment (CAFE)	
Instructor: Dr. John D. Robertson	