

Ashley Leach, PhD

The Ohio State University (OSU)
Ohio Agricultural Research and Development Center (OARDC)
Department of Entomology
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Current Appointments

January 2022 – Present Assistant Professor, The Ohio State University, College of Food, Agricultural, and Environmental Sciences, Department of Entomology. Wooster, Ohio, United States.

Academic Appointments

May 2019 - December 2021 Postdoctoral Research Associate, Purdue University, West Lafayette, Indiana, United States

Degrees

September 2014 - May 2019 Ph.D. in Entomology, Cornell University, Geneva, NY United States.

September 2009 - May 2013 B.S. in Entomology (with honor), Michigan State University-Lyman Briggs, East Lansing, Michigan, United States

Publications

REFEREED PUBLICATIONS

1. Leach, H. and **A. Leach**. 2020. Tracking an invader: characterizing the spatial distributions of spotted lanternfly (Hemiptera: Fulgoridae) in Pennsylvania vineyards. *Sci Rep* 10, 20588
<https://doi.org/10.1038/s41598-020-77461-9>
2. Leach, H. and **A. Leach**. 2020. Seasonal phenology and activity of spotted lanternfly (*Lycorma delicatula*) in eastern U.S. vineyards. *J. Pest Sci.* 93: 1215–1224 <https://doi.org/10.1007/s10340-020-01233-7>
3. **Leach, A.**, S. Reiners, and B. A. Nault. 2020. Challenges in integrated pest management: A case study of onion thrips and bacterial bulb rot in onion. *Crop. Protect.* 133: 105123
<https://doi.org/10.1016/j.cropro.2020.105123>
4. **Leach, A.**, F. Hay, R. Harding, K. Damann, and B. A. Nault. 2020. Relationship between *Stemphylium vesicarium* and onion thrips (*Thrips tabaci*) in the development of Stemphylium leaf blight disease. *Ann. App. Bio.* 176(1): 55-64. <https://doi.org/10.1111/aab.12558>
5. **Leach, A.**, M. Fuchs, R. Harding, and B. A. Nault. 2019. Iris yellow spot virus prolongs the adult lifespan of its primary vector, onion thrips (*Thrips tabaci*). *J. Insect Sci.* 19(3): 8; 1–4.
<https://doi.org/10.1093/jisesa/iez041>
6. **Leach, A.**, C. A. Hoepting, and B. A. Nault. 2019. Grower adoption of insecticide resistance management practices increase with extension-based program. *Pest. Mgmt. Sci.* 75: 515-526.
<https://doi.org/10.1002/ps.5150>
7. **Leach, A.**, M. Fuchs, R. Harding, R. Schmidt-Jeffris, and B. A. Nault. 2018. Importance of transplanted onions contributing to late-season iris yellow spot virus epidemics in New York. *Plant Dis.* 102(7): 1264-1272. <https://doi.org/10.1094/PDIS-06-17-0793-RE>
8. **Leach, A.**, S. Reiners, M. Fuchs, and B. A. Nault. 2017. Evaluating integrated pest management tactics for onion thrips and pathogens they transmit to onion. *Agric., Ecosyst. & Environ.* 250: 89–101.
<https://doi.org/10.1016/j.agee.2017.08.031>

PUBLICATIONS IN PREP, REVIEW

1. *In revision*. Does IPPM bear fruit? Evaluating reduced-risk insecticide programs on pests, pollinators, and marketable yield
2. *In review*. Prioritizing pollinators over pests: a case study in watermelon pests and pollinator management
3. *In prep*. Threshold-based insecticide programs successfully control pest without reducing yield across specialty crop production.

4. *In prep.* Supporting IPM through insecticide programming: spirotetramat in allium production.

NON-REFEREED PUBLICATIONS

1. **Leach, A.** 2022. Early season pest management in apple and peach orchards. Ohio Fruit news, May 2022 issue
2. **Leach, A.** 2022. Thresholds Triggered Across State for Codling Moth Control. Ohio Fruit news, May 2022 issue
3. **Leach, A.** and A. Stone. 2022. Keep a lookout for: Spotted lanternfly. Ohio Fruit news, March 2022 issue
4. Pecenka, J., and **A. Leach.** 2021. Spray Less, Pay Less, and Get Better Control of Your Arthropod Pests. Vegetable Crops Hotline. Issue 692.
5. **Leach, A.,** E. Long, and L. Ingwell. 2020. Seedling Damage by Maggot Pests. Purdue University. Vegetable Crops Hotline. Issue 673.
6. Ingwell, L., **A. Leach,** and D. Egel. 2019. Whitefly Identification and Control. Purdue University. Vegetable Crops Hotline. Issue 664.
7. Hayden, Z., **A. Leach,** and B. Nault. 2019. Nitrogen: Is less more? Studies in MI and NY highlight potential for reducing nitrogen rates on muck soils. Onion World 35(5):14-16.
8. **Leach, A.,** B.A. Nault, and C. Hoepting. 2018. Insecticide Sequences to Manage Onion Thrips in Onion in 2018. Cornell Cooperative Extension, Cornell Vegetable Program. VegEdge 14 (10) 8-9.
9. **Leach, A.,** S. Reiners, M. Fuchs, and B. A. Nault. 2018. Unravelling the interactions among variety, fertility, yield, onion thrips and diseases, and implications for improved management practices. [Empire State Producers Expo proceedings.](#)
10. **Leach, A.,** B.A. Nault, and C. Hoepting. 2017. 2017 Insecticide treatment options for onion thrips management in onion. Cornell Cooperative Extension, Cornell Vegetable Program. VegEdge 13 (12) 8-9.
11. **Leach, A.** 2017. Optimizing thrips control. Onion World 33(3) 17-19.
12. **Leach, A.,** B. A. Nault and S. Reiners. 2016. Evaluating a three-component IPM program for onion thrips. [Empire State Producers EXPO proceedings.](#)
13. Serrine, R., E. Lizotte, D. Brown, T. O'Brien, and A. Leach. 2014. Estimated Costs of Producing Hops in Michigan. MSU Extension Bulletin.

Grant Support

1. Implementing arthropod IPM on watermelon farms for pollinator protection. EPA Pesticide Environmental Stewardship Program Grants. 2023-2023. (\$129,830) PD: I. Kaplan; **Co-PD: A. Leach.**
2. Ohio Grape Industries Viticulture Research Program Grant Period: FY 23. PD: I. Dami, Co-PDs: J. Blakeslee, D. Doohan, M. Ivey, A. Kirk, **A. Leach,** M. Smith. 2022-2021. (\$119,000)
3. ODA-SCBG, "Managing key early-season pests of tree fruit in Ohio" (\$73,000) 2022-2024. **PD: A. Leach.**
4. Ohio Vegetable & Small Fruit Research & Development Program, "Monitoring and Managing Flea Beetles in Crucifers: Identifying the major players and methods to reduce pest populations" 2022-2023. (\$2,338) **PD: A. Leach,** Co-PD: B. Filbrun
5. Ohio Vegetable & Small Fruit Research & Development Program, "Improving vegetable pest control: use of surfactant to improve efficacy of insecticide programming in alliums and crucifers" 2022-2023. (\$2,139) **PD: A. Leach,** Co-PD: B. Filbrun
6. NC-IPM center, critical issues grant program, "Slowing the Spread: Monitoring and Extension Efforts to Mitigate Impacts of Spotted Lanternfly" 2022-2023. (\$49,814) **PD: A. Leach,** Co-PD: A. Michel
7. NIFA USDA AFRI- Foundational and Applied Science Program, "Enhancing arthropod-mediated ecosystem services by alleviating key stressors in specialty crop production" PD: I. Kaplan; **Co-PD: A. Leach.** 2022-2026. (\$649,775)
8. ISDA- SCBG, "Conservation of Indiana Specialty Crop Pollinators" PD: I. Kaplan; **Co-PD: A. Leach.** 2021-2024. (\$119,653)
9. New York Onion Research and Development Program, "Management of onion insect pests and impact on associated diseases" PD: B. Nault, Co-PD: A. Taylor, **A. Leach** (\$20,000)- 2018
10. New York Farm Viability Institute- "Fostering Adoption of the Cornell Onion Thrips Management Program and Gauging its Success". PD: B. Nault, Co-PD: C. Hoepting, **A. Leach.** 2015-2017. (\$39,326)

Fellowship Support

1. NIFA USDA AFRI- Education and Workforce Development Postdoctoral Fellowship. “Integrating bees into modern IPM: revising pest management approaches in a pollinator-dependent crop.” PI: A. Leach (\$165,000)- 2020-2022
2. Postdoc Travel Grant- Purdue University (\$500)- 2019
3. Niederhauser Student Travel Grant, The American Phytopathological Society (\$500)- 2018
4. Annie’s Sustainable Agriculture Scholarship (\$10,000)- 2018
5. Andrew W. Mellon Student Research Grant, Cornell University (\$1,000)- 2018
6. Paul J. Chapman Graduate Student Fellowship, Cornell University (\$57,000)- 2018-2019
7. W. Arthur and Alma D. Rawlins Graduate Student grant, Cornell University (\$1,000, \$200)- 2018 & 2019
8. Northeast SARE Graduate student grant- “Advancing onion thrips management and production of onion in the Northeast by improving soil fertility programs.” GNE16-126. PI: A. Leach. 2017-2019. (\$14,877)
9. Cornell University Graduate Student Travel Grant- 2016 (\$567, \$500)- 2016 & 2018
10. Michigan Vegetable Council Industry Scholarship 2015 (\$2,500)

Awards and Honors

1. Early career travel award to attend P-IE Science Policy Field Tour: ‘Biological Control in Agroecosystems’ 2022
2. Eastern Branch John Henry Comstock Award- Entomological Society of America 2020
3. First place presentation at the Entomological Society of America Annual Meeting in 2019, *Section: P-IE, IPM, Field Crops*
4. First place IPM Inspiration Award- 9th International Integrated Pest Management symposium 2018
5. First place presentation at the Entomological Society of America- Eastern Branch meeting 2018
6. George G. Gyrisco Graduate Student Award in Applied Entomology- Cornell Entomology 2017
7. First place presentation at the Entomological Society of America Annual Meeting in 2017, *Section: P-IE, Vectors of Plant Diseases*
8. First place presentation at the National Allium Research Conference- National Onion Association 2016
9. First place presentation at the International Congress of Entomology- Entomological Society of America 2016, *Section: P-IE, IPM, Field Crops*
10. The Larry Larson Graduate Student Award for Leadership in Applied Entomology- Entomological Society of America 2016
11. Mike Villani Graduate Student Research Award- Cornell University’s NYSAES Entomology 2016
12. First place presentation at the Entomological Society of America-Eastern Branch meeting 2016
13. Mike Villani Graduate Student Research Award- Cornell University’s NYSAES Entomology 2015

Presentations

INVITED SEMINARS

1. **Leach, A.** The ultimate multitool: impacts of integrated pest management in onion and watermelon. 2021. Clemson University, Department of Plant & Environmental Sciences, Clemson, SC. October 8.
2. **Leach, A.** Designing and implementing IPM in specialty crop production: case studies from onion and watermelon. 2021. USDA-ARS, Temperate Tree Fruit and Vegetable Research, Wapato, WA. September 25.
3. **Leach, A.** 2020. Optimizing integrated pest management: a case study in onion production. Purdue University Ecology and Evolutionary Biology department, Ecolunch seminar series. West Lafayette, IN. February 20.
4. **Leach, A.** 2019. Optimizing IPM: Development and adoption of programs for onion thrips in onion. P.J. Chapman Fellowship award presentation. Cornell Entomology department seminar series, Geneva, NY. April 30.
5. **Leach, A.** 2018. IPM and the human element: developing programs to control onion thrips in onion. Purdue entomology department seminar series, West Lafayette, IN. December 6.
6. **Leach, A.** Dynamic IPM programs to manage onion thrips in onion. Cornell Entomology department seminar series. Geneva, NY. April 25.

INVITED PRESENTATIONS

1. **Leach, A.** and I. Kaplan. 2022. Implementing cucumber beetle IPM for pollinator protection. IPM symposium, March 1. Denver, CO.
2. **Leach, A.** and I. Kaplan. 2022. Adding an extra “P” in IPM: Balancing pest management and pollinator protection in watermelon. NC-ESA branch meeting, March 23. Minneapolis, MN.
3. **Leach, A.,** and J. Pecenka. 2021. Having your cake and eating it too: Managing pests and pollinators in watermelon. SW Indiana Melon Growers meeting. Vincennes, IN. March 11.
4. **Leach, A.,** C. Hoepting, S. Reiners and B. A. Nault. 2019. Lessons from New York: Managing onion thrips and bacterial bulb rot with IPM. Great Lakes Fruit and Vegetable Expo, Grand Rapids, MI. December 10-12.
5. **Leach, A.,** C. Hoepting and B. A. Nault. 2017. Fostering adoption of the Cornell Onion Thrips Management Program. Taking Stock for New York Agriculture, hosted by the New York Farm Viability Institute, Albany, NY. November 16.
6. **Leach, A.,** S. Reiners, M. Fuchs, C. Hoepting and B. A. Nault. 2017. Advancing onion thrips management in onion and challenges in implementation. Larry Larson Award Presentation, Dow Agrosiences Headquarters Indianapolis, IN. February 24.

PROFESSIONAL MEETINGS

1. **Leach, A.** 2022. A year of firsts: My experiences as a new mom and postdoc. IPM symposium, March 1. Denver, CO.
2. **Leach, A.,** F. Hay, R. Harding, K. Damann and B. Nault. 2019. Role of onion thrips in the development of *Stemphylium* leaf blight in onion. Oral presentation. Entomological Society of America- annual meeting St. Louis, MO. Nov 17-20.
3. **Leach, A.,** S. Reiners and B. Nault. 2019. Integrating pest management for onion thrips and bacterial bulb rot in onion production. Poster presentation. Entomological Society of America- annual meeting St. Louis, MO. Nov 17-20.
4. **Leach, A.,** C. Hoepting and B. A. Nault. 2019. Increasing adoption of insecticide resistance management practices with statewide extension program. Oral Presentation. Entomological Society of America- Eastern Branch, Blacksburg, VA. March 9-12.
5. **Leach, A.,** C. Hoepting and B. A. Nault. 2018. Increasing use of action thresholds in managing onion thrips on New York onion farms. Oral presentation. ESA, ESC, and ESBC Joint Annual Meeting, Vancouver, CA. November 11-14.
6. **Leach, A.,** F. Hay, R. Harding, and B. Nault. 2018. Relationship between *Stemphylium vesicarium* and onion thrips (*Thrips tabaci*) in the development of *Stemphylium* leaf blight disease. Poster Presentation. International Congress of Plant Pathology. Boston, MA. July 29-August 3.
7. **Leach, A.,** C. Hoepting and B. A. Nault. 2018. Successful adoption of action threshold-based insecticide programs for thrips management in onion. Poster presentation. 9th International IPM Symposium, Baltimore, MD. March 19-22.
8. **Leach, A.,** S. Reiners, and B. A. Nault. 2018. Evaluating effects of nitrogen fertilizer and insecticide use in managing onion thrips (*Thrips tabaci*) in onion. Oral Presentation. Entomological Society of America- Eastern Branch, Annapolis, MD. March 17-19.
9. **Leach, A.,** M. Fuchs, R. Harding, R. Schmidt-Jeffris and B. A. Nault. 2017. Evaluating major sources of iris yellow spot virus in New York. Virtual poster presentation. Entomological Society of America- annual meeting, Denver, CO. November 5-8.
10. **Leach, A.,** S. Reiners, and B. A. Nault. 2016. Integrating nitrogen rate, onion cultivar, and insecticide program to optimize onion thrips management in onion. Poster presentation. National Allium Research Conference, Savannah, GA. November 30- December 2.
11. **Leach, A.,** S. Reiners, and B. A. Nault. 2016. Optimizing soil fertility for managing onion thrips in onion. Oral Presentation. Northeastern IPM center conference, Webinar. November 9.
12. **Leach, A.,** S. Reiners, and B. A. Nault. 2016. Advancing onion thrips (*Thrips tabaci*) control and onion production with a multi-faceted IPM program. Oral Presentation. XXV International Congress of Entomology. Orlando, FL. September 25-30.
13. **Leach, A.,** C. Hoepting, and B. A. Nault. 2016. Implementing a threshold-based insecticide program on New York onion farms. Oral Presentation. Cornell AgriTech (formerly New York State Agricultural Experiment Station) Research Symposium, Geneva, NY. June 23.

14. **Leach, A.**, S. Reiners, and B. A. Nault. 2016. Evaluating a tri-partite IPM program for onion thrips in onion. Poster presentation. Entomological Society of America- Eastern Branch, Philadelphia, PA. January 4-7.

EXTENSION MEETINGS

1. **Leach, A.** 2022. Spotted Lanternfly: what to spot. Davey Tree care research group, April. 23, 2022 (16 audience)
2. **Leach, A.** 2022. Onion thrips IPM: managing thrips with fewer inputs. Ohio Produce Growers & Marketers Association meeting. January 17. (23 audience)
3. **Leach, A.** and H. Leach. 2022. Let's get ready to rumble: SLF in OH grape. Ohio Grape & Wine Conference, Feb. 21, 2022 (82 audience)
4. **Leach, A.** 2022. Spotted Lanternfly: An introduction to the invasive insect. Warren County Specialty Crop Pesticide Applicator Training, Feb. 23, 2022 (11 audience)
5. **Leach, A.** 2022. Thrips management in cabbage and onion. Northern Ohio Crops Day, March 3. (93 audience)
6. **Leach, A.** and I. Kaplan. 2022. IPPM in watermelon: what worked and what didn't. Illiana Watermelon Association, March. 11 (60 audience)
7. **Leach, A.** 2022 Invasive Pests in Fruit Production. OSU Small Farm Conference, March 12. (17 audience)
8. **Leach, A.** 2021. MORE WITH LESS: IPM tactics to manage thrips. New England Vegetable grower meeting. December 12.
9. **Leach, A.**, S. Reiners, F. Hay, M. Fuchs, R. Harding, and B. A. Nault. 2018. Evaluating interactions between onion thrips and associated plant pathogens for improved management in onion. Oral presentation. 67th Annual Muck Vegetable Growers Conference, Bradford, ON. March 28-29.
10. **Leach, A.**, S. Reiners, M. Fuchs and B. A. Nault. 2018. Unravelling the interactions among variety, fertility, yield, onion thrips and diseases, and implications for improved management practices. Oral Presentation. Empire State Producers Expo, Syracuse, NY. January 16-18.
11. **Leach, A.**, R. Harding, M. Fuchs and B. A. Nault. 2016. Evaluating insecticide programs to mitigate iris yellow spot disease in onion. Poster presentation. Great Lakes Fruit and Vegetable Expo, Grand Rapids, MI. December 6-8.
12. **Leach, A.**, and B. A. Nault. 2016. Onion thrips pest management research in New York State. National Onion Association Summer Convention Field Tour, Elba, NY. Oral Presentation. July 15.
13. **Leach, A.**, S. Reiners, and B. A. Nault. 2016. Evaluating a tri-partite IPM program to manage onion thrips in onion. Oral Presentation. Empire State Producers Expo, Syracuse, NY. January 19-21.
14. **Leach, A.**, C. Hoepting, and B. A. Nault. 2015. Implementing Cornell's onion thrips management program on New York onion farms. Poster presentation. Great Lakes Fruit and Vegetable Expo, Grand Rapids, MI. December 8-10.
15. **Leach, A.**, and B. A. Nault. 2015. Tour of 2015 onion thrips research highlights. Elba Muck Donut Hour, Elba, NY. Oral Presentation. August 18.
16. **Leach, A.**, C. Hoepting, and B. A. Nault. 2014. Optimizing onion thrips management in onion. Poster presentation. Great Lakes Fruit and Vegetable Expo, Grand Rapids, MI. December 9-12.

CONTRIBUTED PRESENTATIONS

1. Leach, H. and **A. Leach**. 2019. From *Merlot to Merlittle*: Activity of spotted lanternfly (SLF) in PA grape. Great Lakes Fruit and Vegetable Expo, Grand Rapids, MI. December 10-12.
2. Leach, H., **A. Leach**, J. Urban, M. Centinari, L. Deecher, and L. Briggs. 2019. Spotted lanternfly damage and phenology in fruit crops. Entomological Society of America- annual meeting St. Louis, MO. November 17-20.
3. Leach, H., **A. Leach**, M. Centinari, A. Harner, L. Briggs, L. Deecher, J. Urban. 2019. Detection and management of spotted lanternfly in vineyards. Great Lakes Fruit and Vegetable Expo. Grand Rapids, MI. December 10-12.
4. Nault, B. A., **A. Leach**, C. Hoepting, E. Moretti, and J. Scott. 2018. Adoption and success of an IRM program for onion thrips in onion: So good so far! ESA, ESC, and ESBC Joint Annual Meeting, Vancouver, CA. November 11-14.
5. Nault, B. A. and **A. Leach**. 2017. Managing onion insect pests and associated diseases. Great Lakes Fruit and Vegetable Expo, Grand Rapids, MI. December 6.

6. Nault, B. A., **Leach, A.**, and C.A. Hoepting. 2016. Medicating onions for thrips infestations: New remedies to consider. Empire State Producers Expo. Syracuse, NY. January 19-21.
7. Hoepting, C.A., Nault, B. A., and **A. Leach**. 2016. Adoption and performance of the Cornell Onion Thrips Management Program in 2015. Empire State Producers Expo. Syracuse, NY. January 19-21.
8. Ebels, L., **Leach, A.**, and B.A. Nault. 2018. Associations between onion growth characteristics and *Thrips tabaci* populations. Summer Scholar poster session. Geneva, NY July 28.
9. Justus, E., **Leach, A.**, Fuchs, M., and B.A. Nault. 2014. Identifying a Major Source of Iris Yellow Spot Virus (IYSV) in New York Onion Cropping Systems. Summer Scholar poster session. Geneva, NY. July 28.

Extension Service

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| Agricultural scout and consultant- Cornell University Entomology Department | 2016-2017 |
| Oswego County, NY: Scouted for onion growers, provided weekly reports and recommendations for pest and pathogen management. | |
| Extension research assistant- Cornell University Entomology Department | 2015-2016 |
| Geneva, NY: Authored and prepared materials for extension presentations, including data analysis, hand-outs and surveys. | |
| Research Assistant- Michigan State Extension | 2013 |
| Suttons Bay, MI: Harvested hop cones, entered and analyzed hop varietal data. | |

Teaching Experience

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| Guest Lecture- Purdue University | 2019 |
| Purdue University Entomology Department, West Lafayette, IN: Prepared and presented guest lectures on creating engaging scientific presentations for introductory entomology course, <i>Science Writing</i> . | |
| Graduate Student Fellow- Cornell University | 2015-2016 |
| Graduate Student School Outreach Program (GRASSHOPR), Geneva, NY: Designed and presented lesson plans on agricultural science and entomology for local elementary schools. | |
| Teaching Assistant- Cornell University | 2014-2015 |
| Cornell University Entomology Department, Ithaca, NY: Assisted teaching introductory entomology courses, <i>Plagues and People</i> and <i>Alien Empire</i> . Prepared and presented lectures, graded and designed assignments, and held office hours. | |

Service

PROFESSIONAL SOCIETY ACTIVITIES

Co-chair of the Student & Early Career Scientists Committee and member of the Program committee for [2022 IPM Symposium](#), "*Implementing IPM across Borders and Disciplines*" held in Denver, CO.
[Newsletter editor](#) for the ESA P-IE section communications committee (2021-2024).
 Member of nominations committee NC-ESA (2021-2024)

Symposia organization

"Students in IPM: current research, techniques, and challenges across borders and disciplines" at 2022 IPM symposium
"Early Career Scientists Implementing IPM: Stories From Across Disciplines" at 2022 IPM symposium
"Enhancing Ecosystem Services with Sustainable Pest Management" at 2020 NC/SW ESA Branch meeting
 (MEETING CANCELLED)
"Advocating for IPM in a Dynamic Agricultural World" PIE section at the 2019 National ESA meeting.
"Challenges of Integrated Pest Management (IPM) in High Value Commodities" at the 2019 ESA-EB meeting.

[“Cornell AgriTech Research Symposium”](#) (formerly New York State Agricultural Experiment Station)

REVIEWER

Pest Management Science (2), HortScience (1), Arthropod-Plant Interactions (1), Environmental Entomology (3), Journal of Integrated Pest Management (2), International Journal of Pest Management (1), Journal of Asia-Pacific Entomology (1), Sustainability (1), Agronomy (1), Applied Ecology (1), Crop Protection (1). HortTechnology (2)

Memberships

- Entomological Society of America, Eastern and North Central branch member (2012-current)
- American Phytopathological Society (2015-current)
- American Society of Agronomy (2015-current)
- Sigma Xi, The Scientific Research Honor Society, Associate Member (2017-2018)
- Women in Science (2017-current, Scholarship committee member in 2017)