Jess Hartshorn, PhD

Associate Research Professor of Forestry

Agriculture Research Development Program
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Professional Experience

Associate Research Professor of Forestry, Central State University, June 2025 to Present

Associate Professor of Forest Health, Clemson University, August 2024 to June 2025

Assistant Professor of Forest Health, Clemson University, August 2018 to July 2024

Adjunct Lecturer, Itasca Community College, August 2017 to July 2018

Forest Health Specialist, Minnesota Department of Natural Resources, June 2016 to July 2018

Education

M.S. Clinical Mental Health Counseling, Wright State University, Expected Graduation Aug 2028

B.S. Psychology, Clemson University, May 2024

Ph.D. Entomology, University of Arkansas, May 2016, Advisor: Dr. Fred M. Stephen
Dissertation: "Emergence phenology and nematode associates of the woodwasp, *Sirex nigricornis* F. (Hymenoptera: Siricidae), in Arkansas and Mississippi forests"

M.S. Entomology, University of Arkansas, December 2012, Advisor: Dr. Fred M. Stephen
Thesis: "Effects of felled shortleaf pine (*Pinus echinata* Mill.) moisture loss on oviposition preferences and survival of *Sirex nigricornis* F. (Hymenoptera: Siricidae)"

B.S. Zoology (Chemistry minor), Southern Illinois University, May 2010

Sponsored Research Projects

Funded Projects **indicates competitive program*

1. *2026-2027, North Central IPM Center, Forest Health Working Group, $29,914
2. 2025-2030, USDA NIFA - McIntire-Stennis Program, Promoting the Health and Resilience of Ohio's Forest Resources, $154,924
3. *2023-2026, USDA Forest Service - Bipartisan Infrastructure Law (BIL), EDRR for non-regulated pests: threat assessment, risk analysis, and decision-making tools for partner agencies in response to non-regulated invasive insects and pathogens, $300,000
4. *2023-2026, USDA Forest Service - Forest Health Protection - Pesticide Impact Assessment Program, Effects of glyphosate on decomposer communities in invaded forests, $117,374
5. **2023-2028, USDA Natural Resource Conservation Service - Climate Smart Commodities in South Carolina (College of Agriculture, Forestry, and Life Sciences - PI), $70 million (~$180,000 allocated to the Hartshorn lab). Rescinded by Trump Admin. April 2025.*
6. *2022-2024, Clemson University Division of Research, Facilitation of biotic homogenization by generalist pollinators in the Callery pear system, $172,052
7. August 2021 – July 2025, The Jones Center at Ichauway, Biology and ecology of eye gnats (*Liohippelates*) in longleaf pine forests, $2,879

8. *August 2021- July 2023, USDA Forest Service – Forest Health Protection, Landscape Scale Restoration, Enhanced pear-spectives: proactive sky-scouting to detect areas at high-risk from spread of invasive Callery pear, $231,595
9. August 2021 – July 2023, The Jones Center at Ichauway, Biology and ecology of gnats in forested systems, $74,961
10. April 2021 – March 2022, Belle W. Baruch Foundation, *Ips* populations following the use of prescribed fire to manage pine stands following hurricane damage, $5,000
11. *April 2020 – April 2022, USDA Forest Service, Distribution and spread of the invasive Callery pear into forests of the eastern United States, $15,000
12. August 2019 – September 2022, USDA Forest Service, Effects of prescribed fire on *Ips* bark beetles, $122,200
13. *May 2019 – July 2021, USDA Forest Service, Biology of the redbay ambrosia beetle in sassafras at the leading edge of laurel wilt, $73,962
14. *June 2019 – June 2020, Belle W. Baruch Foundation, *Ips* bark beetles response to hurricane damage, $5,000
15. August 2019 – July 2021, The Jones Center at Ichauway, Effects of predator exclusion on decomposer communities in longleaf forests, $41,183
16. August 2019 – July 2021, The Jones Center at Ichauway, Population dynamics of decomposing beetles in longleaf pine habitat, $11,351
17. 2016-2020, USDA Forest Service, *Sirex nigricornis*, nematodes and subcortical interactions in pines of the southeastern U.S., $40,000
18. 2015-2019, USDA Forest Service, Genetic diversity of nematodes parasitizing woodwasps in the southeastern U.S., $15,000

Scholarship Record

*<u>Publications</u> (*indicates student author)*

1. Minteer, E. Lake, and J.A. Hartshorn. History and impacts of invasive vines in North America: challenges and opportunities. For submission to *Journal of Integrated Pest Management.*
2. *Strickland, C., *T.M. Markus, D.R. Coyle, D. Hagan, and J.A. Hartshorn. Assessing the spread of invasive plant species in a managed, multiple-use forest. For submission to *Southeastern Naturalist*.
3. Palmer, J.F., D.R. Coyle, J.T. Nowak, and J.A. Hartshorn. Effects of prescribed fire on C:N and bark beetle damage in loblolly pine stands. Agricultural and Forest Entomology (*in review*).
4. *Sharma, P., Coyle, D.R., Palmer, J.F., Timilsina, N. and Hartshorn, J., 2026. Morpho-physiological traits and biomass scaling of the invasive Callery pear (*Pyrus calleryana* Decne.). *Journal of Forest Science*, *72*(9), pp.441-454.
5. McMinn-Sauder, H., Sherer, T.N., Hartshorn, J.A. and Koski, M.H., 2026. Phenological advance of an aggressive invasive outpaces co-flowering native and naturalized confamilials. Biological Invasions, 28(8), p.182.

6. Crout, K., Kerrigan, J., Mayfield, A. and Hartshorn, J., 2026. *Harringtonia lauricola* Spread in Sassafras Root Systems in the Absence of Its Vector, the Redbay Ambrosia Beetle (*Xyleborus glabratus*). Forest Pathology, 56(4), p.e70095.
7. Bean, M.S., Trotter III, R.T., Chandler, J., Ritger, R., Schroeder, C., Hartshorn, J.A., Peoples, B.K., Barrett, K., Pfister, S.E. and Coyle, D.R., 2026. Local dispersal and growth in an island population of *Anoplophora glabripennis* (Coleoptera: Cerambycidae) in South Carolina. Environmental Entomology, 55(3), p.nvag057.
8. Hartshorn, J.A. 2026. Presenting the winners of the fifth annual Simberloff award for outstanding presentation. Biological Invasions, 28: 77-78.
9. Hartshorn, J.A. 2026. Unconditional positive regard (for moths). American Entomologist, 72(1): 28-29.
10. Awasthi, K., Klingeman, W.E., Nowicki, M., Russell, B.T., Coyle, D.R., Guerry, D., Iuricich, F., Timilsina, N., and J.A. Hartshorn. 2025. Detection and Classification of Invasive Callery pear from Multisource Satellite Imageries in Google Earth Engine. Ecological Informatics: 103529.
11. Palmer, J.F. and J.A. Hartshorn. 2025. Methods for mapping and quantifying gallery formation by bark beetles in loblolly pine. Journal of Insect Science, 25(5): ieaf086.
12. Hartshorn, J.A. 2025. Secondary metabolites of the invasive tree, Callery pear (*Pyrus calleryana*), provide support for the empty niche theory of invasion. PLoS ONE, 20(7): e0327841.
13. Coyle, D.R., De La Torre, R., Hartshorn, J.A., and S. Kennett*. 2025. Impacts of Nantucket pine tip moth, *Rhyacionia frustrana* (Lepidoptera: Tortricidae) management on rotation-length economic returns of loblolly pine. Journal of Economic Entomology, toaf072.
14. *Sharma, P., D.R. Coyle, D. Kunkel, J.F. Palmer, J.W. Campbell, N. Timilsina, and J.A. Hartshorn. 2025. Pollinator community composition and diversity in Callery pear stands in South Carolina. Southeastern Naturalist, 24(2), 151-167.
15. *Crout, K.C., A.E. Mayfield, J. Kerrigan, and J.A. Hartshorn. 2024. Factors affecting *Xyleborus glabratus* attack and host utilization in sassafras and redbay in the Carolinas. Journal of Economic Entomology, 117(6): 2518-2524.
16. Palmer, J.F., J. Nowack, D.R. Coyle, and J.A. Hartshorn. 2024. Effects of prescribed fire on *Ips* bark beetles abundance and damage in pine stands. Forest Ecology and Management, 561: e121870.
17. Crout, K.*, Coyle, D., Young, K.L.*, Hartshorn, J., Markus, T.*, Slater, W.*, Norman, C.*, Strickland, C.*, and Adams, J. 2024. Ambrosia beetle biology, impact, and management. Clemson (SC): Clemson University Cooperative Extension Service, Land-Grant Press by Clemson Extension; 2024. LGP 1196. http://lgpress.clemson.edu/publication/ambrosia-beetle-biology-impact-and-management.
18. Hartshorn, J.A., Brockerhoff, E.G., Klapwijk, M.J., Marzano, M., Ganley, R.J. and Darr, M.N., 2023. Attracting and retaining women in forest entomology and forest

pathology. Forest Policy and Economics, 154:103022.
19. *Young, K., *A. Tsalickis, T. Sheehan, K. Klepzig, M. Caterino, and J. Hartshorn. 2023. Dung beetle community composition in the presence and absence of mesopredators in a longleaf pine forest. Southeastern Naturalist, 22(1): 78-90.
20. Hartshorn, J.A., D. Rosenberger, A. Mech, B. Aukema, J.J. Riggins, and P. Fanning. 2022. There's an app for that: iNaturalist scavenger hunts: a novel way to engage entomology students. Natural Sciences Education, e20081.
21. Klepzig, K.D., J.A. Hartshorn, *A. Tsalickis, and T.N. Sheehan. 2022. Eye gnat (Liohippelates, Diptera: Chloropidae) biology, ecology, and management: past, present, and future. Journal of Integrated Pest Management, 13(1): 19.
22. Hartshorn, J.A., J.F. Palmer, and D.R. Coyle. 2022. Into the wild: evidence for the Enemy Release Hypothesis (ERH) in Callery pear. Environmental Entomology, 5.1: 216-221.
23. Hartshorn, J.A., and D.R. Coyle. 2021. Comparative meta-analysis of non-native ants (Hymenoptera: Formicidae), ground beetles (Coleoptera: Carabidae), and bark and ambrosia beetles (Coleoptera: Curculionidae) on native confamilials. Environmental Entomology, 50(3): 622-632. doi: https://doi.org/10.1093/ee/nvab017
24. Hartshorn, J.A., D.R. Coyle, and R.J. Rabaglia. 2021. Responses of native and non-native bark and ambrosia beetles (Coleoptera: Curculionidae: Scolytinae) to different chemical attractants: insights from the USDA Forest Service Early Detection and Rapid Response program data analysis. Journal of Economic Entomology, 114.2: 776-783. doi: https://doi.org/10.1093/jee/toaa309
25. Hartshorn, J.A., L.D. Galligan, and F.M. Stephen. 2021. *Sirex nigricornis* (Hymenoptera: Siricidae) larval development correlated with tree characteristics and ophiostomoid fungal infection. Great Lakes Entomologist, 53.2: 11.
26. *Lalk, S., J.A. Hartshorn, and D.R. Coyle. 2021. Invasive woody plants and their effects on arthropods in the United States: challenges and opportunities. Annals of the Entomological Society of America, 114(2): 192-205. doi: https://doi.org/10.1093/aesa/saaa054
27. Hartshorn, J.A. 2020. A review of forest management effects on terrestrial leaf litter inhabiting arthropods. Forests, 12.1: 23. doi: https://doi.org/10.3390/f12010023
28. Clarke, S., and J.A. Hartshorn. 2020. Contrasting competitor and predator responses to a short-lived southern pine beetle outbreak: a case study. Forest Science, 67(1): 22-29. doi: 10.1093/forsci/fxaa041
29. Brawner, J., D. Coyle, L. Eckhardt, S. Enebak, K. Gandhi, J. Hartshorn, J. Hulcr, R. Jetton, K. Klepzig, E. McCarty, C. Villari, and J. Vogel. 2019. An alliance to address threats to the health of America's forests. The Forestry Source, pp.16-23.
30. Hartshorn, J.A., L.D. Galligan, and F.M. Stephen. 2019. Spatial patterns of within-tree red oak borer (Coleoptera: Cerambycidae) attack during outbreak conditions in the Ozark National Forest in Arkansas, U.S.A. The Canadian Entomologist, 151(6): 738-744.
31. Fisher, D.M., J.A. Hartshorn, D.C. Steinkraus, L.D. Galligan, and F.M. Stephen. 2017. Variation in sterilization by *Deladenus proximus* on the native woodwasp, *Sirex*

nigricornis, in Arkansas. Journal of the Kansas Entomological Society. 90(2): 85-93.

32. Hartshorn, J.A., J.R. Fisher, J.J. Riggins, and F.M. Stephen. 2017. Molecular identification of the roundworm, *Deladenus proximus* (Tylenchida: Neotylenchidae): a parasite of *Sirex nigricornis* (Hymenoptera: Siricidae). Nematology 19(1): 15-20.
33. Hartshorn, J.A., L.D. Galligan, A.J.W. Lynn-Miller, and F.M. Stephen. 2016. *Sirex nigricornis* oviposition preference and development in relation to host age, and a novel live-trapping system for wood-borers. Great Lakes Entomologist 49(3-4): 173-183.
34. Hartshorn, J.A., K.D. Chase, L.D. Galligan, J.J. Riggins, and F.M. Stephen. 2016. Interactions among latitude, nematode parasitization, and female *Sirex nigricornis* F. (Hymenoptera: Siricidae) fitness. Environmental Entomology 45(6): 1515-1520.
35. Hartshorn, J.A., L.J. Haavik, J.D. Allison, J.R. Meeker, W. Johnson, L.D. Galligan, K.D. Chase, J.J. Riggins and F.M. Stephen. 2016. Emergence of adult female *Sirex nigricornis* and *S. noctilio* F. (Hymenoptera: Siricidae) coincides with a decrease in daily minimum and maximum temperature. Agricultural and Forest Entomology 18(3): 206-213.
36. Hartshorn, J.A., D.M. Fisher, L.D. Galligan, and F.M. Stephen. 2015. Seasonal phenology of *Sirex nigricornis* F. (Hymenoptera: Siricidae) in Arkansas with implications for management of *S. noctilio*. Florida Entomologist 98(3): 933-938.
37. Hartshorn, J.A. 2015. ESA Student Debates: A connected world poses several threats to biodiversity. What tool currently available is best suited to preserve our current biodiversity? An unbiased introduction. American Entomologist. 61(3): 151-152.
38. Skvarla, M.J., J.A. Hartshorn, and A.P.G. Dowling. 2014. Report on a large collection of *Merope tuber* Newman, 1838, (Mecoptera: Meropidae), from Arkansas, with notes on collection technique, sex ratio, and male clasper size. Psyche: A Journal of Entomology 2014: 1-6.
39. Hartshorn, J.A., L.R. Orellana, R.P. Rastok, and S.M. Barrow. 2014. ESA Student Debates: How to solve global climate change: entomophagy. American Entomologist 60: 215-216.
40. Petty, B.M., A.D. Tripodi, A.J.W. Lynn-Miller, J. A. Hartshorn, and K.P. Durden. 2014. ESA Student Debates: Organic agriculture will solve projected food and water limitations of the American society. American Entomologist 59: 220.

Chapters and Books

1. Applications of Remote Sensing in Invasive Species Management. Springer Nature. *In preparation.*
2. Hartshorn, J.A. 2026. Chapter 9: Wood-wasps and Sawflies, *In:* Handbook of Wood-boring Insects, Ed. M. Hudson. Entomological Society of America.
3. Hartshorn, J.A. 2021. Native *Sirex nigricornis* and potential for interactions in the southeastern U.S., *in* Biology and Ecology of *Sirex noctilio* and Prospects for Biological Control in North America. Eds. L. Haavik, F.M. Stephen, and A. Hajek. Forest Health Assessment & Applied Sciences Team, Fort Collins, CO.

Extension and Popular Articles

1. Hartshorn, J.A. "Landscaping for the future". Entomology Today. 1 March 2021.
2. Norman, C., W. Slater, C. Strickland, T. Markus, K. Young, K. Crout, and J.A. Hartshorn. 2020. Ambrosia beetles. HGIC Factsheet 2018.
3. Hartshorn, J.A. "Eastern Larch Beetle Outbreak Just Keeps Going When Winter's Not So Cold". Entomology Today. 18 April 2018.

Oral Presentations

Invited Lectures/Seminars

1. Hartshorn, J.A. Introduction to forest health diagnostics. A Day in the Woods Extension program, September 2026.
2. Hartshorn, J.A. Laurel wilt in Ohio. A Day in the Woods Extension program, September 2026.
3. Hartshorn, J.A. Invasion of the biome snatchers. Guest Lecture, Applied Ecology, Washington College (virtual). February 2026.
4. Hartshorn, J.A. Attracting and retaining women in forest health professions. International Union of Forest Research Organizations – International Day of Women and Girls in Science Webinar Series. February 2026.
5. Hartshorn, J.A. Invasion of the biome snatchers. Wright State University – Department of Biological Sciences Seminar Series. February 2026.
6. Hartshorn, J.A. Invasion of the biome snatchers. University of Kentucky – Department of Forestry Seminar Series. September 2025.
7. Hartshorn, J.A. Burning questions: how does fire affect pine engravers? Ohio State University - Department of Entomology Seminar Series (virtual). September 2023.
8. Hartshorn, J.A., J.F. Palmer, and D.R. Coyle. Prickly pernicious pears: effects of Callery pear on arthropod guilds. University of Georgia – Department of Entomology. Athens, GA. February 2022.
9. Hartshorn, J.A., J.F. Palmer, D.R. Coyle, and J. Nowak. The unholy trinity: bark beetles, climate change, and fire. University of Florida – IFAS Monthly Webinar Series (virtual). January 2022.
10. Hartshorn, J.A. Conferences and grad school: making them work for you. Clemson Natural Resources Graduate Student Association (virtual). April 2021.
11. Hartshorn, J.A. Invasion of the biome snatchers: effects of Callery pear on arthropod communities. Department of Entomology, Penn State University (virtual). February 2021.
12. Hartshorn, J.A. Professional Development Guest Lecture (virtual). Forestry and Environmental Conservation, Clemson University. November 2020.
13. Hartshorn, J.A. *Sirex* woodwasp in forest health. North Carolina State University – Forest Health guest lecture (virtual). October 2020.
14. Hartshorn, J.A. The case of the pernicious pears: invasional meltdown in urban forests (virtual). University of Kentucky Department of Forestry and Department of

Entomology Graduate Seminar Series. September 2020.

15. Hartshorn, J.A. Forest health research in a changing climate. The Jones Center. Newton, GA. March 2019.
16. Hartshorn, J.A. Forest health research and education. Guest lecturer for Introduction to Forestry. (Instructor: Dr. Larry Gering). February 2019.
17. Hartshorn, J.A. *Sirex* in the south: phenology, ecology, and biological control. University of Minnesota – Department of Entomology Seminar. St. Paul, MN. February 2017.

Presentations at Professional Meetings

1. Hartshorn, J.A., K.R. Awasthi, N. Timilsina, F. Iuricich, and B.T. Russell. Machine-learning-based classification of Callery pear across the Southeastern United States. Cooperative Research Forum on Invasive Species. Annapolis, MD. February 2026.
2. Hartshorn, J.A. United front, tangled roots: Confronting the challenges of invasive plant management across organizations. Southern Forest Health Work Conference. Tulsa, OK. July 2025.
3. Hartshorn, J.A. We can be (humus) heroes: uncovering the unsung heroes of the forest floor. Entomological Society of America Southeastern Branch meeting. Augusta, GA. March 2024.
4. Hartshorn, J.A. and D.R. Coyle. Development of an EDRR tool for state forest health managers. Southern Group of State Foresters - Forest Health Committee annual meeting. January 2024.
5. McMinn-Sauder, H., M. Koski, and J.A. Hartshorn. Assessing the potential for biotic homogenization by generalist pollinators. Interagency Forum on Invasive Species. January 2024.
6. Hartshorn, J.A. Remote sensing for detecting the invasive Callery pear. North American Invasive Species Management Association. October 2023.
7. Hartshorn, J.A. and D.R. Coyle. Creating a tool to integrate remote sensing and invasive plant management. Southern Forest Insect Work Conference. July 2023.
8. Palmer, J.F., J.A. Hartshorn, D.R. Coyle, and J.T. Nowak. Burning ring of beetles: the effects of prescribed fire on bark beetle activity. South Appalachian Forest Entomology and Pathology Seminar. Crossnore, NC. March 2023.
9. Hartshorn, J.A. Using aerial imagery to detect and predict invasive plant spread using Callery pear as a model system. Interagency Forum on Invasive Species. Annapolis, MD. January 2023.
10. Hartshorn, J.A. Forest health at the intersection of climate change and invasive species management. Southeast Climate Adaptation Science Symposium. September 2022.
11. Hartshorn, J.A., J.F. Palmer, and D.R. Coyle. Enemy release of Callery pear: implications for an emerging invasive plant pest. Ecological Society of America. August 2022.
12. Hartshorn, J.A., G. Nuttle, J.F. Palmer, D.R. Coyle, and J.T. Nowak. Response of Ips communities to prescribed fire in South Carolina. Southern Forest Insect Work

Conference. July 2022.

13. Hartshorn, J.A. Forest health in a changing climate. Entomological Society of America. November 2021.
14. Hartshorn, J.A., A. Mech, D. Rosenberger, P. Fanning, B. Aukema, and J. Riggins. Engaging and assessing students through the use of iNaturalist. Clemson Teaching Excellence Virtual Conference. April 2021.
15. Young, K.*, J.A. Hartshorn, K. Klepzig, and T. Sheehan. Examining dung beetle populations in the absence of mammalian meso-predators for variation in population diversities and abundances. Entomological Society of America (virtual). November 2020.
16. Hartshorn, J.A. and D.R. Coyle. Evidence for the Enemy Release Hypothesis in Callery pear invasion. Entomological Society of America (virtual). November 2020.
17. Hartshorn, J.A. Keynote Presentation: The trees, they are a-changin': Asian longhorn beetle in South Carolina. South Carolina Entomological Society Meeting (virtual). October 2020.
18. Palmer, J.F, J.A. Hartshorn, and D.R. Coyle. *Ips* implications: effects of drought on bark beetle response to prescribed fire. South Appalachian Forest Entomology and Pathology Seminar. Crossnore, NC. March 2020.
19. Hartshorn, J.A., F. Palmer, and D.R. Coyle. Ecological impacts of the invasive Callery pear. South Appalachian Forest Entomology and Pathology Seminar. Crossnore, NC. March 2020.
20. Hartshorn, J.A. Beyond the REU: Rethinking Undergraduate Research. Entomological Society of America. St. Louis, MO. November 2019.
21. Hartshorn, J.A., L.D. Galligan, and F.M. Stephen. Potential for biological control of an invasive woodwasp using a native nematode. Entomological Society of America Southeastern Branch. Mobile, AL. March 2019.
22. Hartshorn, J.A., L. Galligan, and F.M. Stephen. Potential for biological control of an invasive woodwasp using a native nematode. Entomological Society of America, Southeastern Branch. Mobile, AL. March 2019.
23. Hartshorn, J.A. Pest profile: *Sirex noctilio*. Southern Forest Insect Work Conference. San Antonio, TX. July 2018.
24. Hartshorn, J.A. Writing effective application materials. Southern Forest Insect Work Conference. Melbourne, FL. July 2017.
25. Hartshorn, J.A. and M. Darr. Attraction of young, diverse communities to entomology. International Congress of Entomology and Entomological Society of America. Orlando, FL. September 2016.
26. Hartshorn, J. A., L. D. Galligan and F. M. Stephen. Effects of native nematodes on size and fecundity of native woodwasps in southeastern pine forests. Entomological Society of America National Meeting. Minneapolis, MN. November 2015.
27. Hartshorn, J.A., L.D. Galligan, and F.M. Stephen. A synthesis of *Sirex* research in

Arkansas. Southern Forest Insect Work Conference. Fayetteville, AR. July 2015.

28. Hartshorn, J.A., L.D. Galligan, and F.M. Stephen. The potential for native nematodes to control non-native woodwasps. Entomological Society of America, Southeastern Branch. Biloxi, MS. March 2015.
29. Hartshorn, J.A., and F.M. Stephen. Modeling *Sirex nigricornis* F. (Hymenoptera: Siricidae) flight patterns in Arkansas. East Texas Forest Entomology Seminar. Lufkin, TX. April 2014.
30. Hartshorn, J.A. and F.M. Stephen. Comparing flight patterns of the native woodwasp, *Sirex nigricornis* F., with Sirex noctilio, a non-native threat to southeastern pine stands. Entomological Society of America, Southeastern Branch. Greenville, SC. March 2014.
31. Hartshorn, J.A., L.D. Galligan, and F.M. Stephen. Phenology of *Sirex nigricornis* F. International Symposium on current Sirex Research. Ithaca, NY. October 2013.
32. Hartshorn, J.A., L.D. Galligan, D.J. Dalzotto, and F.M. Stephen. Oviposition and larval development of *Sirex nigricornis* F. in Arkansas. Southern Forest Insect Work Conference. New Orleans, LA. July 2013.
33. Hartshorn, J.A., D.M. Keeler, A.J.W. Lynn-Miller, L.D. Galligan, and F.M. Stephen. Life history, oviposition preferences, and incidence of nematodes of *Sirex nigricornis*. Interagency Forum on Invasive Species. Annapolis, MD. January 2013.
34. Hartshorn, J.A. and F.M. Stephen. Oviposition preferences of female *Sirex nigricornis* F. (Hymenoptera: Siricidae) in relation to differing moisture contents of *Pinus echinata*. Entomological Society of America. Knoxville, TN. November 2012.
35. Hartshorn, J.A. and F.M. Stephen. Moisture content in pine logs and its effects on oviposition by *Sirex nigricornis* F. (Hymenoptera: Siricidae). Entomological Society of America, Southeastern Branch, Little Rock, AR. March 2012.
36. Hartshorn, J.A. and F.M. Stephen. Effects of tree condition on oviposition behavior of *Sirex nigricornis* (Hymenoptera: Siricidae). Entomological Society of America. Reno, NV. November 2011.

*Poster Presentations (*indicates student author)*

1. Yturralde, K., Hartshorn, J.A., and Grieve, A. Elms and the city: tales of DED management in the District of Columbia. Cooperative Research Forum on Invasive Species. Annapolis, MD. February 2026.
2. Anderson, C.*, Hallo, J., Hartshorn, J.A., White, D., and Anderson, J.T. Are Brackish Wetland Ecotones Underappreciated Havens for Pollinator Conservation? Ecological Society of America. Baltimore, MD. August 2025.
3. Kennett, S.M.*, R. De La Torre, J.A. Hartshorn, R.S. Cameron, C.W. Berisford, and D.R. Coyle. Impacts of Nantucket pine tip moth, *Rhyacionia frustrana* (Lepipodtera: Torticidae), management on rotation-length economic returns of loblolly pine in North Carolina. Entomological Society of America Southeastern Branch. Augusta, GA. March 2024.

4. Lenser, D., D.R. Coyle, D. Hadziabdic, M. Nowicki, W. Klingeman, B. Pearson and J. Hartshorn. Remote sensing and predictive modeling of the invasive Callery pear tree. Interagency Forum on Invasive Species. Annapolis, MD. January 2023.
5. Sharma, P.*, J.F. Palmer, D.R. Coyle and J.A. Hartshorn. Pollinator community composition and diversity of Callery pear. Appalachian Society of American Foresters. January 2023.
6. Estes, C.*, and J.A. Hartshorn. Effects of Callery pear invasion on the growth of commercial pines. Clemson Undergraduate Research Symposium. Clemson, SC. April 2022.
7. Crout, K.*, A.E. Mayfield and J.A. Hartshorn. Laurel wilt in sassafras at the leading edge of disease spread. South Appalachian Forest Entomology and Pathology Seminar. Crossnore, NC. March 2020.
8. Young, K.*, J.A. Hartshorn, K.D. Klepzig and T. Sheehan. Dung beetle assemblages in longleaf pine systems. South Appalachian Forest Entomology and Pathology Seminar. Crossnore, NC. March 2020.
9. Wagner, K.E.*, J.J. Riggins, R. Jetton, J.A. Hartshorn, and D. Avtzis. Optimizing forest management practices to minimize economic impact of *Sirex noctilio*. Southern Forest Insect Work Conference. Savannah, GA. July 2019.
10. Young, K.*, T. Sheehan, K. Klepzig, and J.A. Hartshorn. Composition and activity of dung and carrion beetles in predator free environments. Southern Forest Insect Work Conference. Savannah, GA. July 2019.
11. Hartshorn, J.A., L.D. Galligan, A.J.W. Lynn-Miller, and F.M. Stephen. *Sirex nigricornis* F. (Hymenoptera: Siricidae) oviposition and development relating to bolt age and a novel system for live-trapping wood borers. Proceedings of the Southern Forest Insect Work Conference. Melbourne, FL. July 2017.
12. Hartshorn, J.A., L.D. Galligan, D.J. Dalzotto, and F.M. Stephen. Creation and validation of a degree-day model for *Sirex nigricornis* F. (Hymenoptera: Siricidae) in Arkansas. Proceedings of the 25th USDA Interagency Forum on Invasive Species. Annapolis, MD. January 2014.
13. Hartshorn, J.A., A.J.W. Lynn-Miller, L.D. Galligan, and F.M. Stephen. Biology and oviposition patterns of Arkansas *Sirex*. Proceedings of the North American Forest Insect Work Conference. Portland, OR. May 2011.
14. Lynn-Miller, A.J.W., L.D. Galligan, J.A. Hartshorn, and F.M. Stephen. *Sirex nigricornis* oviposition: Response to bark thickness. Proceedings of the North American Forest Insect Work Conference. Portland, OR. May 2011.

Extension and Outreach

1. Forest health research at Central State University. Urban and Small-scale Farm Connection Conference. January 2026.
2. In-service chainsaw training workshop. Clemson Forestry and Environmental

Conservation. October 2021.

3. Forest health overview. Women Owning Woodlands (Organizer: Janet Steele). September 2021.
4. "Emerald ash borer in SC". Women Owning Woodlands. 10 February 2021. https://youtu.be/FI3B5AN4_yc
5. "Importance of forest health monitoring". Women Owning Woodlands. February 2021. https://youtu.be/4KJjSsoGphA
6. "Forest Entomology with Jess Hartshorn". Arthro-Pod Podcast with Michael Skvarla and Jonathan Larson. February 2021. https://archive.org/details/apep82forestentomologywithjesshartshorn
7. "Forestry Women Who Rock: Dr. Jess Hartshorn". Talking Forests Podcast with Candra Burns. January 2019. https://talkingforests.com/forestry-women-who-rock-dr-jess-hartshorn-episode-22/
8. "Forestry Careers with MNDNR – Forest Health Specialist". Minnesota Department of Natural Resources YouTube Video. September 2017. https://youtu.be/0_wFHnYmKUo
9. Forest health overview. Women Owning Woodlands (Organizer: Janet Steele). September 2021.
10. Forest health overview. Women Owning Woodlands (Organizer: Janet Steele). May 2020. Canceled due to COVID-19.
11. Hartshorn, J.A. Forest health issues in Northern Minnesota in 2017 (webinar). University of Minnesota Extension – Master Woodland Owner Course. September and October 2017.
12. Hartshorn, J.A. Forest health issues in Northern Minnesota (workshop). Tower, Littlefork, Northome, Hill City, MN. May through August 2017.
13. Hartshorn, J.A. Damaging forest insect and disease highlights of 2016. East Range Private Forest Management Stakeholders Meeting. Virginia, MN. May 2017.
14. Hartshorn, J.A. Tick safety. Minnesota Department of Natural Resources. Grand Rapids, MN. April 2017.
15. Hartshorn, J.A. Predictions for 2017: spruce budworm, forest tent caterpillar, and storms. Forest Health Workshop, Walker, MN. January 2017.
16. Hartshorn, J.A. Tree care: after the storm. South St. Louis Soil and Water Conservation District Tree Care Workshop. Saginaw, MN. September 2016.

Teaching Activities *grad only #undergrad/grad course

Course	Institution	Sem.	Years	Enroll
Ecology and Evolution	Wright State	Sp	2026	40
Environmental Justice in Natural Resources	Clemson	Sp	2022- Pres.	8
Advanced Forest Protection*	Clemson	Sum	2020-Pres.	8-15
Current Issues in Forest Health*	Clemson, UF	Sum	2019-Pres.	8-22
Invasion Ecology*	Clemson	Sum/Sp	2019-Pres.	12-24
Forest Protection#	Clemson	Fall	2018-Pres.	23-35

Course	Institution	Sem.	Years	Enroll
Forest Biology	Clemson	Fall	2019	86
Ecology Reading Group*	Clemson	Fall/Sp	2019/2021	8-11
Forest Health and Protection	Itasca CC	Fall	2017	12
Insects, Science, and Society (TA)	U of A	Sp	2011, 2014-16	15
Morphology of Insects* (TA)	U of A	Fall	2015	9
Insect Ecology#	U of A	Fall	2012, 2014	10-15

Mentoring and Advising

MS Forest Resource Management Graduates (**indicates committee chair or co-chair*):

- *Leela Hospach (MS Forest Resources, Clemson University) - Biology and ecology of eye gnats (*Liohippelates*) in longleaf pine forests. Expected graduation May 2026.
- Trent Miller (MS Forest Resource Management, Clemson University, Dr. Don Hagan - major advisor), December 2023.
- Lena Schmitt (MS Forest Resource Management, Clemson University, Dr. David Coyle – major advisor), December 2023.
- *Crystal Strickland (MS) – Understanding the impact of recreational activities and precipitation on the spread and germination of invasive plant species in a multiple-use forest. August 2023.
- *Prabina Sharma – Reproductive ecology and aboveground biomass of the invasive Callery pear. May 2023.
- Meredith Bean (MS Forest Resource Management, Clemson University, Dr. David Coyle – major advisor), December 2022
- *Katy Crout (MS) - Biology of the redbay ambrosia beetle in sassafras at the leading edge of laurel wilt. December 2021.
- *Kelsea Young (MS) - Effects of predator exclusion on decomposer communities in longleaf forests. December 2021.

Post-doctoral Research:

- Dr. McMinn-Sauder (Ohio State University) - Facilitation of biotic homogenization by generalist pollinators in the Callery pear system.
- Dr. Renee Holland (University of Georgia) - Enhanced pear-spectives: Proactive sky-scouting to detect areas at high-risk from spread of invasive Callery pear.

Undergraduate Research:

- Creative Inquiry (FNR 4700) - 3-6 students per semester; projects include greenhouse and field experiments to examine spread mechanisms and impacts of invasive plants
- Sarah-Jean Kolarik (Spring 2023) – Arthropod diversity in non-native invasive leaf litter
- Conner Estes (Fall 2021) – Impacts of Callery pear competition on pine growth
- Isabelle Lucero (Fall 2020) – Bird communities associated with invasive Callery pear

Registered Student Organizations:

- Forestry Club, Clemson University (faculty advisor)
- Society of American Foresters Clemson Chapter, Clemson University (faculty advisor)

Awards and Service

Honors and Awards

Certificate of Appreciation, 2024, USDA Plant Protection & Quarantine
Teaching Award of Merit, 2023, North American Colleges and Teachers of Agriculture
Outstanding Junior Faculty in Teaching, 2022, Clemson University – College of Agriculture, Forestry, & Life Sciences
Dale Bumpers Distinguished Ph.D. Scholar, 2016, University of Arkansas – College of Agricultural, Food & Life Sciences
Comstock Award for Outstanding Ph.D. Student, 2015, Entomological Society of America
Dwight Isely Outstanding Ph.D. Student, 2014, University of Arkansas – Department of Entomology
Roger F. Anderson Outstanding Graduate Student, 2014, Southern Forest Insect Work Conference
Doctoral Academy Fellowship, 2012-2016, University of Arkansas - Graduate School

*Institutional Service (*indicates elected position, #indicates chair position)*

*Alternate Faculty Senator, 2023-2024, Clemson University - College of Agriculture, Forestry & Life Sciences
SAF Accreditation Committee, 2023-2024, Clemson University - Forestry & Environmental Conservation
*Curriculum Committee, 2021-2023, Clemson University – Forestry & Environmental Conservation
*Academic Council, CAFLS Representative, 2020-2023, Clemson University – College of Agriculture, Food, & Life Sciences
*# Scholarship & Awards Committee, 2021 – 2024, Clemson University – Forestry & Environmental Conservation
*Biometrician Search Committee, 2019, Clemson University – Forestry & Environmental Conservation

Scientific Society Service

Organizing Committee, Interagency Cooperative Forum on Invasive Species, 2024-Present
Subject Editor, 2025-Present, Plant Ecology
*Chair, 2024-2027, Ecological Society of America - Invasion Ecology Section
*Vice Chair, 2023-2024, Ecological Society of America - Invasion Ecology Section
*Executive Committee Counselor, 2019-2022, Southern Forest Insect Work Conference

Deputy Coordinator, 2021 - present, International Union of Forest Research Organizations (IUFRO), Working Party 7.05

*President, 2019-2020, South Carolina Entomological Society

Organizing Committee (Chair), 2018-2021, North American Forest Insect Work Conference

Manuscript and Grant Panel Reviewer

Reviewed manuscripts for Community Ecology, Biological Invasions, Environmental Entomology, Agricultural and Forest Entomology, Journal of Insect Behavior, Forest Ecology and Management, Forest Science, PLoS ONE, Texas Journal of Science, Soil Biology & Biochemistry, New Forests

Florida Invasive Species Council Julia Morton Research Grant Review Panel, 2024

USDA PPA 7721 (formerly 'Farm Bill') - Goal 6 - Mitigation grant reviewer, 2022 & 2023

NSF GRFP Reviewer, 2021

Minnesota Invasive Terrestrial Plants and Pest Center grant reviewer, 2019, 2020

Professional Development

International Society of Arboriculture Certified Arborist, 2026

Ohio Commercial Pesticide Applicator, 2025

Certified Senior Ecologist – Ecological Society of America, 2025

Certified Prescribed Fire Manager - SC Forestry Commission, 2024

Faculty Learning Community - The New Science of Learning, 2022

CAREER Academy – Track 2, 2021

Faculty Learning Community – Getting Students "Ready for Work", 2021

Clemson Office of Teaching Effectiveness and Innovation - Effective Online Teaching for Student Engagement, 2020

Clemson Office of Teaching Effectiveness and Innovation - Visual Design in Canvas, 2020

CAREER Academy – Track 1, 2020

Faculty Learning Community – Universal Design for Learning (UDL), 2020

Faculty Learning Community – Diversity and Inclusion, 2019

S131 – Advanced Wildland Firefighting, 2018

S-130/190, Basic Wildland Firefighter Training, 2017

L-180, Human Factors in the Wildland Fire Service, 2017

S-270, Basic Air Operations, 2017

Insect Chemical Ecology short course, Penn State University, 2014

HYMcourse short course, Tovetorp Zoological Station (Sweden), 2012