

### I. BACKGROUND

#### Employment

2025 - Present **Associate Professor and Forest Health Extension Specialist**, Oregon State University  
2021 - 2025 **Professor** – Forest Entomology, Mississippi State University  
2015 - 2021 **Associate Professor** – Forest Entomology, Mississippi State University  
2010 - 2025 **Consulting State Forest Entomologist** – Mississippi Forestry Commission  
2008 - 2015 **Assistant Professor** – Forest Entomology, Mississippi State University

#### Contact

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Department of Forest Engineering, Resources and Management  
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#### Other Professional Affiliations

2024 - Present **Advisory Board**, “FORSAID” EU Commission Grant, University of Padua, Italy  
2022 - 2022 **Visiting Faculty**, University of Padua, Italy  
2016 - 2018 **Adjunct Faculty**, School of Biological Sciences, Louisiana Tech University  
2015 - 2025 **Faculty Affiliate**, IGBB, Mississippi State University  
2011 - 2012 **Affiliate Faculty**, School of Forestry and Wildlife Sciences, Auburn University  
2009 - 2012 **Graduate Faculty**, Warnell School of Forestry and Natural Resources, UGA  
2008 - 2025 **Faculty Affiliate**, Geosystems Research Institute, Mississippi State University

#### Education

2008 Ph.D. Entomology, University of Arkansas at Fayetteville  
2004 M.S. Biology, University of Nebraska at Kearney  
2002 B.S. Comprehensive Biology, University of Nebraska at Kearney

#### Research Productivity Summary

Refereed Papers	44
Book Chapters	3
Acquired Funding	\$6.3 M
Popular & Extension Articles	63
Patents	1
Invited Presentations	78
Extension Presentations	37
Submitted Presentations	81
Poster Presentations	74

**II. PUBLICATIONS**

(† = Student Advisee Author, \* = Corresponding Author, Ω = Dual First Authors)

**A. Refereed**

1. Nardi, D., Wagner, K. E., Ward, S. F., Liebhold, A. M., Brockerhoff, E. G., Turner, R., & **Riggins, J. J.** (In Preparation). Global movement of woodwasp (Hymenoptera: Siricidae) species inferred from port interception records. *Neobiota*.
2. Petit, G., Netherer, S., Biruk, L. N., Candotti, A., Casolo, V., Faccoli, M., Hölttä, T., Losso, A., Mayr, S., Paljacca, T., Petruzzellis, F., Pitaco, A., Prendin, A. L., **Riggins, J. J.**, Savi, T., Schuler, H., Squartini, A., Tomelleri, E., Battisti, A., Morgante, G., Nardi, D., Natale, S., Rodeghiero, M., Tonina, L., Zapponi, L. (In Review). From colonization to collapse: a mechanistic perspective on tree mortality by bark beetles. *New Phytologist*
3. †McAndrew, K. M., Clay, N. A., Siegert, C. M., Tang, J. D., Hofstetter, R. W., Dunn, D. D., Leverón, O., & **Riggins, J. J.** (In Review). Hidden worlds: testing applicability of acoustic methods for examination of deadwood arthropod communities. *Agricultural and Forest Entomology*.
4. Benedetto, N. V., **Riggins, J. J.**, Tang, J. D., Siegert, C. M., Thomason, J. W., Dearing, N. A., & Clay, N. A. (2025). Deadwood supports carnivores in leaf litter communities in a bark beetle-attacked deadwood simulation experiment. *Forest Science*. <https://doi.org/10.1007/s44391-025-00033-9>
5. Dacquin, P., Barnes, B. F., Caiti, E., Corley, J., Deganutti, L., Faccoli, M., Gandhi, K., Garcia, A., Grodzki, W., Jactel, H., Inward, D., Knížek, M., Lantschner, V., Lakatos, F., Lecocq de Pletincx, N., Meurisse, N., Nikolov, C., Pugh, A., **Riggins, J. J.**, Aron, S., & Grégoire, J.-C. (2025). Mating before host colonization: a common trait in outbreeding Scolytinae, potentially linked to invasiveness. *Entomologia Generalis*, 45, 391-399. <https://doi.org/10.1127/entomologia/2025/2863>
6. †Thomason, J. T., Clarke, S. R., & **Riggins, J. J.** (2025). Influence of natal host on southern pine beetle host acceptance. *Agricultural and Forest Entomology*. Online Early. <https://doi.org/10.1111/afe.12682>
7. Nardi, D., Geppert, C., Thorn, M. J., Ward, S. W., Brown, R. L., Gordon, J. S., & **Riggins, J. J.\*** (2025). Burning questions: How human habits and firewood characteristics influence the transport of wood-boring insects. *Biological Invasions*, 27, 1-13. <https://doi.org/10.1007/s10530-024-03518-9>
8. Nardi, D., Bares, H. M.†, Clay, N. A., Verble, R., Rassati, D., Marini, L., Thomason, J. W., & **Riggins, J. J.** (2024). Tradeoffs in longleaf pine conservation: Prescribed fire management increases exotic ambrosia beetle abundance in pine-hardwood forests. *Forest Ecology and Management*, 571, 122210. <https://doi.org/10.1016/j.foreco.2024.122210>
9. Siegert, C. M., Clay, N. A., Pace, K., Vissa, S., Hofstetter, R. W., Leveron, O., & **Riggins, J. J.** (2024). Bark beetle-driven community and biogeochemical impacts in forest ecosystems: a review. *Annals of the Entomological Society of America*, 117, 163-183. <https://doi.org/10.1093/aesa/saae009>
10. Clay, N. A., Tang, J. D., Siegert, C. M., Thomason, J. T., Benedetto, N., Day, D., Pace, K., Leveron, O., Hofstetter, R. W., & **Riggins, J. J.** (2024). Decomposition of bark beetle-attacked trees after mortality varies across forests. *Forest Ecology and Management*, 553, 121637. <https://doi.org/10.1016/j.foreco.2023.121636>
11. Ward, S. F., & **Riggins, J. J.** (2023). Warm temperatures and host tree abundance explain variation in directional spread by laurel wilt. *Biological Invasions*, 25, 2747-2761.
12. Ward, S. F., & **Riggins, J. J.** (2023). Drivers of invasion by laurel wilt of redbay and sassafras in the southeastern US. *Landscape Ecology*, 38, 576-581.
13. Mech, A., Rosenberger, D., Fanning, P., **Riggins, J. J.**, Aukema, B., & Hartshorn, J. (2022). There's an app for that: teaching entomology in the online age. *Natural Sciences Education*, 51, e20081.
14. †Smith, J. A., Coyle, D. R., Thomason, J. W., Matthews, T., & **Riggins, J. J.** (2021). Geocaching: A New Instructional Tool for Natural Resources Extension and Outreach. *Journal of Extension*, 59, Article 16.

15. Sullivan, B. T., Shepherd, W. P., Nowak, J. T., Clarke, S. R., Merten, P. R., Meeker, J. R., Parapart, B., Bruce, B., Rachal, A., Billings, R. F., Upton, W. W., & **Riggins, J. J.** (2021). Alternative formulations of trap lures for operational monitoring and detection of populations of southern pine beetle in the United States. *Economic Entomology*, 114, 1189-1200.
16. Clay, N. A., Siegert, C. M., Tang, J. D., Little, N. S., Eckhardt, L. G., & **Riggins, J. J.** (2021). Termite presence and feeding on loblolly pine wood differs among four root-infecting bluestain (ophiostomatoid) fungi species. *Environmental Entomology*, 50, 1118-1126.
17. †Thomason, J. T., Clarke, S. R., & **Riggins, J. J.\*** (2020). Evaluation of phenological indicators for optimizing spring southern pine beetle (Coleoptera: Curculionidae: Scolytinae) trapping surveys. *Florida Entomologist*, 103, 444-451.
18. Bookwalter, J. D., **Riggins, J. J.**, Dean, J. F. D., Mastro, V. C., Schimleck, L. R., Sullivan, B. T., & Gandhi, K. J. K. (2019). Colonization and development of *Sirex noctilio* (Hymenoptera: Siricidae) in bolts of a native pine host and six species of pine grown in the southeastern United States. *Journal of Entomological Science*, 54, 1-18.
19. **Riggins, J. J.**, Chupp, A. D., Formby, J. P., Dearing, N. A., Bares, H. M., Brown, R. L., & Oten, K. F. (2019). Impacts of laurel wilt disease on arthropod herbivores of North American Lauraceae. *Biological Invasions*, 21, 493-503.
20. Siegert, C. M., Clay, N. A., Tang, J. D., Garrigues, L. G., & **Riggins, J. J.** (2018). Indirect effects of bark beetle-generated dead wood on biogeochemical and decomposition processes in a pine forest. *Oecologia*, 188, 1209-1226.
21. †Formby, J. P., Rodgers, J. C., Koch, F. H., Krishnan, N., Duerr, D. A., & **Riggins, J. J.\*** (2018). Cold tolerance strategy and invasive potential of the redbay ambrosia beetle (*Xyleborus glabratus*) in the eastern United States. *Biological Invasions*, 20, 995-1007.
22. <sup>o</sup>Hughes, M. A., <sup>o</sup>**Riggins, J. J.**, Koch, F. H., Cognato, A. I., Anderson, C., †Formby, J. P., Dreaden, T. J., Ploetz, R. C., & Smith, J. A. (2017). No rest for the laurels: symbiotic invaders cause unprecedented damage to southern USA forests. *Biological Invasions*, 19, 2143-2157.
23. Hartshorn, J. A., Fisher, J. R., **Riggins, J. J.**, & Stephen, F. M. (2017). Molecular identification of *Deladenus proximus* Bedding, 1974 (Tylenchida: Neotylenchidae), a parasite of *Sirex nigricornis* (Hymenoptera: Siricidae). *Nematology*, 19, 15-20.
24. Clay, N. L., Little, N. S., & **Riggins, J. J.** (2017). Inoculation of ophiostomatoid fungi in loblolly pine (*Pinus taeda*) trees increases the presence of subterranean termites in fungal lesions. *Arthropod-Plant Interactions*, 11, 213-219.
25. Hughes, M. A., **Riggins, J. J.**, Cognato, A., Koch, F., Anderson, C., Dreaden, T., Formby, J. P., Ploetz, R., & Smith, J. A. (2016). The laurel wilt story: Introduction and impact of an exotic vector (*Xyleborus glabratus*) and pathogen (*Raffaelea lauricola*). *Phytopathology*, 106, 124.
26. Hartshorn, J. A., Chase, K. D., Galligan, L. G., **Riggins, J. J.**, & Stephen, F. M. (2016). Interactions among latitude, nematode parasitization, and female *Sirex nigricornis* (Hymenoptera: Siricidae) fitness. *Environmental Entomology*, 45, 1515-1520.
27. Hartshorn, J. A., Haavik, L. J., Allison, J. D., Meeker, J. R., Johnson, W., Galligan, L., Chase, K. D., Turgeon, J. J., **Riggins, J. J.**, & Stephen, F. M. (2016). Emergence of adult female *Sirex nigricornis* (Hymenoptera: Siricidae) coincides with a decrease in daily minimum and maximum temperature. *Agricultural and Forest Entomology*, 18, 206-213.
28. Clarke, S. R., **Riggins, J. J.**, & Stephen, F. M. (2016). Forest management and southern pine beetle outbreaks: a historical perspective. *Forest Science*, 62, 166-180.
29. Hughes, M. A., Smith, J. A., Ploetz, R. C., Kendra, P. E., Mayfield, A. E., Hanula, J. L., Hulcr, J., Stelinski, L. L., Cameron, S., **Riggins, J. J.**, Carrillo, D., Rabaglia, R., Eickwort, J., & Pernas, T. (2015). Recovery plan for laurel wilt on redbay and other forest species caused by *Raffaelea lauricola* and disseminated by *Xyleborus glabratus*. *Plant Health Progress*, 16, 173-210.

30. †Little, N. S., Blount, N. A., Caprio, M. A., & **Riggins, J. J.** (2014). Survey of subterranean termite (Isoptera: Rhinotermitidae) utilization of temperate forests. *Sociobiology*, 61, 198-206.
31. **Riggins, J. J.**, Little, N. S., & Eckhardt, L. G. (2014). Correlation between infection by Ophiostomatoid fungi and the presence of subterranean termites in loblolly pine (*Pinus taeda* L.) roots. *Agricultural and Forest Entomology*, 16, 260-264.
32. †Chase, K. D., Gandhi, K. J. K., & **Riggins, J. J.** (2014). Effects of forest type and management on native woodwasp abundance (Hymenoptera: Siricidae) in Mississippi, United States. *Journal of Economic Entomology*, 107, 1142-1149.
33. †Formby, J. P., Krishnan, N., & **Riggins, J. J.** (2013). Supercooling in the redbay ambrosia beetle (Curculionidae: Scolytinae). *Florida Entomologist*, 96, 1530-1540.
34. †Little, N. S., McConnell, T. E., Shi, S. Q., & **Riggins, J. J.** (2013). Surface free energy of blue-stained southern pine sapwood obtained from bark beetle-attacked trees. *Wood and Fiber Science*, 45, 206-214.
35. †Little, N. S., Schultz, T. P., Diehl, S. V., Nicholas, D. D., Londo, A. J., Musser, F. R., & **Riggins, J. J.** (2013). Field evaluations of subterranean termite preference for sap-stain inoculated wood. *Journal of Insect Behavior*, 26, 649-659.
36. †Little, N. S., Blount, N. A., Londo, A. J., Kitchens, S. C., Schultz, T. P., McConnell, T. E., & **Riggins, J. J.** (2012). Preference of Formosan subterranean termites for blue-stained southern yellow pine sapwood. *Journal of Economic Entomology*, 105, 1640-1664.
37. †Chase, K. D., Schieffer, T. S., & **Riggins, J. J.** (2012). First incidence of *Sinoxylon indicum* and *Sinoxylon sudanicum* (Coleoptera: Bostrichidae) in Mississippi. *Florida Entomologist*, 95, 767-770.
38. †Formby, J. P., Scheiffer, T. L., & **Riggins, J. J.** (2012). First records of *Xyleborus glabratus* (Coleoptera: Curculionidae: Scolytinae) in Alabama and Harrison County, Mississippi. *Florida Entomologist*, 95, 192-193.
39. †Little, N. S., **Riggins, J. J.**, Londo, A. J., Schultz, T. P., & Ulyshen, M. D. (2012). Feeding preference of native subterranean termites (Isoptera: Rhinotermitidae: *Reticulitermes*) for wood containing bark beetle pheromones and blue-stain fungi. *Journal of Insect Behavior*, 25, 197-206.
40. †Little, N. S., **Riggins, J. J.**, Londo, A. J., Schultz, T. P., & Nicholas, D. D. (2012). Preference of *Reticulitermes flavipes* (Kollar) for southern pine blue-stained sapwood from beetle-killed trees. In *2012 Proceedings of the International Research Group on Wood Protection Annual Meeting, Kuala Lumpur, Malaysia, May 6-10, 2012* (IRG/WP 12-10763).
41. **Riggins, J. J.**, Fraedrich, S. W., & Harrington, T. C. (2011). First Report of *Raffaelea lauricola* in sassafras in Mississippi. *Plant Disease*, 95, 1479.
42. **Riggins, J. J.**, Defibaugh, J., Tullis, J. A., & Stephen, F. M. (2011). Pre-visual detection of northern red oak (*Quercus rubra*) foliar stress symptoms using a handheld spectroradiometer. *Southern Journal of Applied Forestry*, 35, 18-25.
43. **Riggins, J. J.**, Hughes, M., Smith, J. A., Mayfield, A. E., Layton, B., Balbalian, C., & Campbell, R. (2010). First occurrence of laurel wilt disease caused by *Raffaelea lauricola* on redbay trees in Mississippi. *Plant Disease*, 94, 634.
44. **Riggins, J. J.**, Galligan, L., & Stephen, F. M. (2009). Rise and fall of red oak borer in the Ozark Mountains of Arkansas, U.S.A. *Florida Entomologist*, 92, 426-433.
45. **Riggins, J. J.**, Tullis, J. A., & Stephen, F. M. (2009). Per-segment aboveground forest biomass estimation using LIDAR-derived height percentile statistics. *GIScience and Remote Sensing*, 46, 232-248.
46. **Riggins, J. J.**, Davis, C. A., & Hoback, W. W. (2009). Family level biodiversity of belowground invertebrates as an indicator of wet meadow restoration success (Platte River, Nebraska). *Restoration Ecology*, 17, 495-505.
47. **Riggins, J. J.**, & Hoback, W. W. (2005). Diurnal tiger beetles (Coleoptera: Cicindelidae) capture prey without sight. *Journal of Insect Behavior*, 18, 305-312.

## **B. Book Chapters**

1. Gomez, D. F., **Riggins, J. J.**, & Cognato, A. I. (2023). Chapter 17- Bark Beetles. In J. Allison, T. Paine, B. Slippers, & M. Wingfield (Eds.), *Forest Entomology and Pathology (Volume 1)* (pp. 299-337). Springer Nature.
2. **Riggins, J. J.**, & Londo, A. J. (2014). Entomology. In J. E. Henderson & R. C. Parker (Eds.), *Study Guide for the Mississippi Board of Registration for Foresters Examination* (pp. 1-91). Forest and Wildlife Research Center, Research Bulletin FO448. Mississippi State University.
3. Willers, J. L., & **Riggins, J. J.** (2010). Geographical approaches for integrated pest management of arthropods in forestry and row crops. In E. C. Oerke, R. Gerhards, G. Menz, & R. A. Sikora (Eds.), *Precision Crop Protection - The Challenge and Use of Heterogeneity* (pp. 183-202). Springer Netherlands.

## **C. Popular Articles and Extension Reports**

1. **Riggins, J. J.** (2024). Out of the frying pan, into the fire: a tale of two bark beetles and the future of southern forests. *Tree Talk Magazine*, Mississippi Forestry Association.
2. **Riggins, J. J.** (2024). Brown Spot Needle Blight: A Growing Concern for Southern Pine Forests. *Tree Talk Magazine*, Mississippi Forestry Association.
3. Layton, B., & **Riggins, J. J.** (2024). Bark beetles in urban pines. Mississippi State University Extension Article.
4. Willis, J., Dicke, S., & **Riggins, J. J.** (2017). What is Attacking My Pine? The case of the Deodar Weevil. Mississippi State University Extension Service Publication #3057.
5. Thorn, M. J., & **Riggins, J. J.** (2016). Mistletoe. *Forest Health Note*, 80.
6. **Riggins, J. J.** (2016). 2016 Emerald ash borer update. *Forest Health Note*, 79.
7. **Riggins, J. J.** (2016). 2016 Mississippi southern pine beetle predictions. *Forest Health Note*, 78.
8. Coyle, D. R., Self, A. B., Floyd, J. D., & **Riggins, J. J.** (2016). IPS Bark Beetles in the Southeastern U.S. Southern Regional Extension Forestry, Forest Health Publication: SREF-FH-02.
9. Willis, J., Self, B., Layton, B., & **Riggins, J. J.** (2015). Signs and symptoms of emerald ash borer. MSU-ES Publication 2896.
10. Nebeker, T. E., **Riggins, J. J.**, Auel, J., Henderson, J. E., Ezell, A. W., Self, A. B., Matney, T., & Londo, A. J. (2015). Southern Pine Density Management for a Healthier Forest. MSU-ES Publication 2893.
11. **Riggins, J. J.** (2015). 2015 Mississippi southern pine beetle predictions. *Forest Health Note*, 77.
12. **Riggins, J. J.** (2015). Spotted lanternfly. *Forest Health Note*, 76.
13. Self, A. B., Floyd, J. D., & **Riggins, J. J.** (2015). Ips: the other pine bark beetles. MSU-ES Publication 2876.
14. **Riggins, J. J.** (2014). Spring 2014 loblolly pine sawfly outbreak in northeast Mississippi and northwest Alabama. *Forest Health Note*, 75.
15. **Riggins, J. J.** (2014). Non-native emerald ash borer marches closer to Mississippi. *Forest Health Note*, 74.
16. **Riggins, J. J.** (2014). Mississippi southern pine beetle predictions for 2014. *Forest Health Note*, 73.
17. **Riggins, J. J.** (2014). Another brood of periodical cicadas creating a buzz in Mississippi forests. *Forest Health Note*, 72.
18. Meeker, J. R., & **Riggins, J. J.** (2014). Southern pine beetle populations in north Mississippi continue to escalate. *Forest Health Note*, 71.
19. **Riggins, J. J.** (2014). 2014 Mississippi southern pine beetle outlook. *Forest Health Note*, 70.
20. Blount, N. A.†, & **Riggins, J. J.** (2013). Eastern tent caterpillar. *Forest Health Note*, 69.
21. Blount, N. A.†, & **Riggins, J. J.** (2013). Fall webworm. *Forest Health Note*, 68.

22. **Riggins, J. J.** (2013). Southern pine beetle predictions. *Forest Health Note*, 66.
23. Blount, N. A.†, & **Riggins, J. J.** (2013). Woodwasps: What's all the buzz about? *Forest Health Note*, 65.
24. Blount, N. A.†, Formby, J. P., & **Riggins, J. J.** (2013). Ambrosia beetles: An often overlooked forest pest. *Forest Health Note*, 64.
25. Blount, N. A.†, & **Riggins, J. J.** (2013). Beech bark disease. *Forest Health Note*, 63.
26. Bibb, J., Chase, K. D., & **Riggins, J. J.** (2013). Pine shoot beetle: Yet another threat to Mississippi forests. *Forest Health Note*, 62.
27. **Riggins, J. J.** (2013). Southern pine beetle history lesson: what should we expect going forward? *Forest Health Note*, 61.
28. **Riggins, J. J.** (2013). Urgent: Southern pine beetle wrap-up. Mississippi Forestry Commission. *Forest Health Note*, 60.
29. Londo, A. J., **Riggins, J. J.**, & Little, N. S. (2012). Southern pine beetle in Mississippi: an overview. Mississippi State University Extension Service Publication P 2748.
30. **Riggins, J. J.** (2012). Urgent: Southern pine beetle update III. Mississippi Forestry Commission. *Forest Health Note*, 59.
31. **Riggins, J. J.**, Chase, K. D., & Formby, J. P. (2012). Don't do disservice to your trees: How to select an arborist or tree service. Mississippi Forestry Commission. *Forest Health Note*, 58.
32. **Riggins, J. J.** (2012). Southern pine beetle update II. Mississippi Forestry Commission. *Forest Health Note*, 57.
33. **Riggins, J. J.** (2012). Southern pine beetle update. Mississippi Forestry Commission. *Forest Health Note*, 56.
34. **Riggins, J. J.** (2012). Pales weevil. Mississippi Forestry Commission. *Forest Health Note*, 55.
35. **Riggins, J. J.** (2012). Mississippi southern pine beetle prediction for 2012. Mississippi Forestry Commission. *Forest Health Note*, 54.
36. **Riggins, J. J.**, & Londo, A. J. (2012). Mississippi southern pine beetle prevention program accomplishments. Mississippi Forestry Commission. *Forest Health Note*, 53.
37. Oten, K. L. F., & **Riggins, J. J.** (2012). Southern hospitality: The exotic hemlock wooly adelgid finds a new home in the South. Mississippi Forestry Commission. *Forest Health Note*, 52.
38. Little, N. S.†, & **Riggins, J. J.** (2012). Advances in utilization of southern pine beetle-killed timber. Mississippi Forestry Commission. *Forest Health Note*, 51.
39. **Riggins, J. J.** (2011). The Danger of Moving Firewood. Mississippi Forestry Commission. *Forest Health Note*, 50.
40. **Riggins, J. J.** (2011). Nantucket Pine Tip Moth Recommendations. Mississippi Forestry Commission. *Forest Health Note*, 49.
41. Formby, J. P.†, & **Riggins, J. J.** (2011). Update 2011 - Redbay Ambrosia Beetle and Laurel Wilt Disease in Mississippi. Mississippi Forestry Commission. *Forest Health Note*, 48.
42. Chase, K. D.†, & **Riggins, J. J.** (2011). Exotic Pest of Pines Threatens North American Pines. Mississippi Forestry Commission. *Forest Health Note*, 47.
43. Little, N. S.†, & **Riggins, J. J.** (2011). Formosan Termites: A Chronic Problem in Mississippi. Mississippi Forestry Commission. *Forest Health Note*, 46.
44. **Riggins, J. J.** (2011). Walnut Twig Beetle and Thousand Cankers Disease Expand Foothold in Eastern U.S.A. Mississippi Forestry Commission. *Forest Health Note*, 45.
45. **Riggins, J. J.** (2011). Mississippi Southern Pine Beetle Predictions for 2011. Mississippi Forestry Commission. *Forest Health Note*, 44.

46. Newbold, R., Meeker, J., Londo, A., & **Riggins, J. J.** (2011). Don't move firewood! *Tree Talk*.
47. **Riggins, J. J.** (2011). Laurel wilt disease takes advantage of 'Southern Hospitality' in coastal Mississippi. *Tree Talk*.
48. **Riggins, J. J.** (2011). Periodical cicadas creating a buzz in Mississippi forests. Mississippi Forestry Commission. *Forest Health Note*, 43.
49. **Riggins, J. J.** (2011). Risky business: The National Insect and Disease Risk Map for 2011. Mississippi Forestry Commission. *Forest Health Note*, 42.
50. **Riggins, J. J.** (2011). Black twig borer. Mississippi Forestry Commission. *Forest Health Note*, 41.
51. **Riggins, J. J.** (2011). Asian long-horned beetle. Mississippi Forestry Commission. *Forest Health Note*, 40.
52. Londo, A. J., **Riggins, J. J.**, Chapin, R., Hatcher, B., Bailey, B., Nebeker, T. E., Kushla, J. D., Dicke, S. G., & Meeker, J. R. (2010). Cost sharing pine thinning operations for southern pine beetle prevention in north Mississippi. *Tree Talk*.
53. Londo, A. J., **Riggins, J. J.**, Chapin, R., Hatcher, B., Bailey, B., Nebeker, T. E., Kushla, J., Dicke, S., & Meeker, J. (2010). The southern pine beetle: cost sharing pine thinning operations for southern pine beetle prevention in north Mississippi. *Tree Talk*.
54. **Riggins, J. J.** (2010). Keep an eye out for sudden oak death. Mississippi Forestry Commission. *Forest Health Note*, 39.
55. **Riggins, J. J.** (2010). Update on redbay ambrosia beetle and laurel wilt disease in Mississippi and Alabama. Mississippi Forestry Commission. *Forest Health Note*, 38.
56. **Riggins, J. J.** (2010). Autumn brings changes to forest health. Mississippi Forestry Commission. *Forest Health Note*, 37.
57. **Riggins, J. J.**, & Londo, A. J. (2009). Wolves in sheep's clothing: outbreaks of previously obscure native forest insects. *Minnesota Department of Natural Resources, Forest Insect and Disease Newsletter*.
58. **Riggins, J. J.**, & Londo, A. J. (2009). Wolves in sheep's clothing: outbreaks of previously obscure native forest insects. *Forest Wisdom*, 13.
59. Londo, A. J., **Riggins, J. J.**, Nebeker, T. E., Chapin, R., & Meeker, J. R. (2009). The emerald ash borer: a potential threat to Mississippi forests and communities. *Tree Talk*.
60. Londo, A. J., **Riggins, J. J.**, Nebeker, T. E., Chapin, R., & Meeker, J. R. (2009). Emerald ash borer: a potential threat to Mississippi forests and communities. *Delta Farm Press*.
61. Garnet, L., Londo, A. J., & **Riggins, J. J.** (2009). Mississippi southern pine beetle prevention program folder. Publication M 1608.
62. Londo, A. J., Romy, R., Jones, L., Nebeker, T. E., Chapin, R., & **Riggins, J. J.** (2008). Cost sharing pine thinning operations for southern pine beetle prevention in North Mississippi. *Tree Talk*.
63. Londo, A. J., Romy, R., Jones, T. L., **Riggins, J. J.**, & Nebeker, T. E. (2008). Cost share pine thinning operations for southern pine beetle prevention. *Magnolia Forester*, 260.

#### **D. Patents and Invention Disclosures**

1. Little, N. S., **Riggins, J. J.**, & Schultz, T. P. (2018). *System and methods for pest reduction* (U.S. Patent No. 10,104,897). U.S. Patent and Trademark Office.

**III. PRESENTATIONS**

(§ = International Conf.; † = Student Advisee; Presentations read by 1st author unless otherwise noted.)

**A. Invited Conference or Seminar**

1. §**Riggins, J. J.**, J. W. Thomason, R. Garg, N. Anger, K. E. Smith, S. Samiappan. 2024. Update on pine needle blight research in Mississippi. Forest Biology Research Cooperative, University of Florida. October 16<sup>th</sup>, 2024.
2. §**Riggins, J. J.** 2024. Converging Threats and Shifting Pest Dynamics: Will *Ips* supplant *Dendroctonus* in a Changing Climate? Invited Seminar, Department of Agronomy, Food, Natural Resources, Animals and Environment, University of Padova, Italy. October 2<sup>nd</sup>, 2024.
3. **Riggins, J. J.** 2023. Pine needle disease epidemic Mississippi update. Pine needle blight working group meeting, Auburn University, Auburn, AL. August 2<sup>nd</sup>, 2023.
4. **Riggins, J. J.** 2023. Pine needle disease epidemic continues in Mississippi and surrounding states. East Texas Forest Entomology Seminar, Nacogdoches, Texas. April 20<sup>th</sup>, 2023.
5. §**Riggins, J. J.**, K. E. Wagner, R. Jetton, S. F. Ward, A. M. Liebhold, E. G. Brockerhoff, R. Turner, R. Jetton, J. Hartshorn, and Dimitrios Avtzis. 2023. Interactions between climate, stand density, and woodwasp outbreaks. International Forest Insect Research Advisory Workshop, Breckenridge, Colorado, January 22<sup>nd</sup>-26<sup>th</sup>, 2023.
6. §**Riggins, J. J.**, N. A. Clay, J. D. Tang, C. M. Siegert, O. Leverón, and R. Hofstetter. 2022. Insects and Fungi: Complex Interactions Shaping Forest Ecosystems. Invited seminar at the University of Freiburg, Germany. November 28th, 2022.
7. §**Riggins, J. J.**, F. H. Koch, J. A. Smith, J. P. Formby, A. Cognato, A. Chupp, M. Hughes, S. F. Ward, N. Krishnan, R. Brown, N. A. Dearing, H. M. Bares, K. Oten, and D. Duerr. 2022. Predicting impacts of recent invasive forest insects in North America. Invited seminar at the University of Freiburg, Germany. November 25th, 2022.
8. §**Riggins, J. J.**, N. A. Clay, J. D. Tang, C. M. Siegert, O. Leverón, and R. Hofstetter. 2022. Forest insects and their fungal symbionts: How do they impact ecosystem services?. Invited seminar at the University of Padua, Italy. November 8th, 2022.
9. §**Riggins, J. J.**, F. H. Koch, J. A. Smith, J. P. Formby, A. Cognato, A. Chupp, M. Hughes, S. F. Ward, N. Krishnan, R. Brown, N. A. Dearing, H. M. Bares, K. Oten, and D. Duerr. 2022. Non-native forest health threats in north America. Invited seminar at the University of Padua, Italy. October 25th, 2022.
10. **Riggins, J. J.**, G. Hicks, and J. Skidmore. 2022. Brown spot needle blight in Mississippi. Auburn University Brown Spot Needle Blight Workshop, Auburn, AL, July 27th, 2022.
11. §**Riggins, J. J.**, K. E. Wagner, R. Jetton, J. Hartshorn, and Dimitrios Avtzis. 2020. Interactions between climate, stand density, and woodwasp outbreaks. International Forest Insect Research Advisory Workshop, Breckenridge, Colorado, February 9<sup>th</sup>-12<sup>th</sup>, 2020.
12. §**Riggins, J. J.**, N. Clay, J. Tang, C. Siegert, O. Levaron, R. Hofstetter. 2019. ¿Cómo afectará el cambio climático a la salud y sostenibilidad de los bosques? Invited seminar at the National University of Forest Sciences in Siguatepeque, Honduras to undergraduate students and faculty. June 27<sup>th</sup>, 2019.
13. §**Riggins, J. J.**, K. E. Wagner, R. Jetton, and J. Hartshorn. 2019. Roundtable discussion: Climate, stand density, and global woodwasp management. International Forest Insect Research Advisory Workshop, Breckenridge, Colorado, January 27<sup>th</sup>-30<sup>th</sup>, 2019.
14. **Riggins, J. J.** 2018. Insect effects on forest health and sustainability. Southern Forest Insect Work Conference, San Antonio, Texas, July 20<sup>th</sup>, 2018.
15. **Riggins, J. J.** 2018. Single introduction event of an ambrosia beetle and its fungal symbiont threaten entire plant family in North America. Southern Forest Insect Work Conference, San Antonio, Texas, July 20<sup>th</sup>, 2018.



16. **Riggins, J. J.**, A. D. Chupp, J. P. Formby, N. A. Dearing, H. M. Bares, R. L. Brown, and K. F. Oten. 2018. Potential biodiversity impacts of laurel wilt disease in North America. Southern Forest Insect Work Conference, San Antonio, Texas, July 19<sup>th</sup>, 2018.
17. <sup>§</sup>**Riggins, J. J.**, N. A. Clay, J. Tang, C. M. Siegert, O. Leverón, and R. Hofstetter. 2018. Bark beetles, decomposers, and the carbon cycle. June 27, 2018. Invited seminar at the National University of Forest Sciences in Siguatepeque, Honduras to undergraduate students and faculty.
18. <sup>§</sup>Clay, N. A., J. Tang, C. M. Siegert, **J. J. Riggins**, O. Leverón, and R. Hofstetter. 2018. Decomposition and decomposers. June 27, 2018. Invited seminar at the National University of Forest Sciences in Siguatepeque, Honduras to undergraduate students and faculty.
19. <sup>§</sup>Tang, J., C. M. Siegert, **J. J. Riggins**, N. A. Clay, O. Leverón, and R. Hofstetter R. 2018. Role of fungi in biodeterioration. June 27, 2018. Invited seminar at the National University of Forest Sciences in Siguatepeque, Honduras to undergraduate students and faculty.
20. <sup>§</sup>Siegert, C. M., **J. J. Riggins**, N. A. Clay, J. Tang, O. Leverón, and R. Hofstetter. 2018. Bark beetles and nutrient cycles. June 27, 2018. Invited seminar at the National University of Forest Sciences in Siguatepeque, Honduras to undergraduate students and faculty.
21. **Riggins, J. J.**, N. A. Clay, J. Tang, C. M. Siegert, O. Leveron, and R. Hofstetter. 2018. Beetles, fungi, and termites: biotic interactions driving wood decomposition. Invited Seminar, School of Biology, Louisiana Tech University, April 16<sup>th</sup>, 2018.
22. **Riggins, J. J.**, N. A. Clay, J. Tang, C. M. Siegert, O. Leveron, and R. Hofstetter. 2018. Bark Beetles, Decomposers, and the Carbon Cycle. Invited Departmental Seminar, Department of Entomology, Purdue University, February 1<sup>st</sup>, 2018.
23. <sup>§</sup>**Riggins, J. J.**, F. H. Koch, J. A. Smith, J. P. Formby, M. Hughes, N. Krishnan, R. Brown, A. Chupp, N. A. Dearing, H. M. Bares, K. Oten, and D. Duerr. 2018. Ecological impacts of laurel wilt disease. USDA Interagency Forum on Invasive Species, Annapolis, MD, January 10<sup>th</sup>, 2018.
24. Koch, F., M. Hughes, J. J. Riggins, and Jason Smith. 2017. FIA data document the spread and impact of laurel wilt on redbay. Southern Forest Insect Work Conference, Melbourne, FL, July 25<sup>th</sup>-28<sup>th</sup>, 2017.
25. **Riggins, J. J.**, F. H. Koch (presenter), and Jason Smith. 2017. Flanking maneuvers: Exploitation of multiple host species increases potential distribution of forest invaders. Southern Forest Insect Work Conference, Melbourne, FL, July 25<sup>th</sup>-28<sup>th</sup>, 2017.
26. Clarke, S. R., J. W. Thomason, and **J. J. Riggins**. 2017. Southern pine beetle flight phenology. Southern Forest Insect Work Conference, Melbourne, FL, July 25<sup>th</sup>-28<sup>th</sup>, 2017.
27. <sup>§</sup>**Riggins, J. J.**, N. A. Clay, J. Tang, C. M. Siegert, O. Leveron, R. Hofstetter. 2017. Bark Beetles Decomposers, and the Carbon Cycle. National Dialog on Southern Pine Beetle Risk Mitigation. Tegucigalpa, Honduras, June 17<sup>th</sup>, 2017.
28. Battaglia, L. L., A. D. Chupp, and **J. J. Riggins**. Laurel wilt disease: an emerging threat to biodiversity and cultural resources in Florida. Florida Gulf Coast University Biodiversity Conference, Ft. Myers, FL, March 7<sup>th</sup>-9<sup>th</sup>, 2017.
29. <sup>§</sup>**Riggins, J. J.** 2017. Roundtable Discussion: Hazard factors for *Sirex noctilio* in the southeastern USA. International Forest Insect Research Advisory Workshop, Breckenridge, CO, January 29<sup>th</sup>-February 3<sup>rd</sup>, 2017.
30. <sup>§</sup>Clay, N. A., N. S. Little, C. Siegert, J. Tang, and **J. J. Riggins**. Interactions among bark beetles, blue stain fungi, and termites: Impacts on decomposition and diversity. International Congress of Entomology, Orlando, FL, September 30<sup>th</sup>, 2016.
31. <sup>§</sup>**Riggins, J. J.** Should We Proactively Manage for the Arrival of *Sirex noctilio* in the Southeast? North American Forest Insect Work Conference, Washington, D.C., May 31<sup>st</sup> – June 3<sup>rd</sup>, 2016.
32. <sup>§</sup>Koch, F., J.A. Smith, **J.J. Riggins**, and M.A. Hughes. 2016. FIA Data Show Dramatic Loss of Redbay Due to Laurel Wilt. North American Forest Insect Work Conference, Washington, D.C., May 31<sup>st</sup> – June 3<sup>rd</sup>, 2016.

33. <sup>§</sup>Coulson, R. N., K. J.K. Gandhi, and **J. J. Riggins**. 2016. Teaching forest protection – What is relevant: Conclusions from the SFIWC workshop. North American Forest Insect Work Conference, Washington, D.C., May 31st – June 3rd, 2016.
34. **Riggins, J. J.**, N. A. Clay, J. Tang, C. Siegert, and N. S. Little. 2016. Mississippi Forest Health Research Update. Southern Appalachian Forest Entomology and Pathology Seminar, Crossnore, NC, March 3-4, 2016.
35. <sup>§</sup>**Riggins, J. J.**, N. A. Clay, J. Tang, C. Siegert, N. S. Little, and L. Gamblin. 2016. Bark Beetles, Fungi, and Termites: Miniscule Biota with Global Importance. International Forest Insect Research Advisory Workshop, Breckenridge, CO, January 31-February 3<sup>rd</sup>, 2016.
36. **Riggins, J. J.**, N. A. Clay, J. Tang, C. Siegert, N. S. Little, and L. Gamblin. 2016. Forest Insects and Their Fungal Partnerships. Invited Departmental Seminar speaker, Department of Entomology. Michigan State University, East Lansing, MI, January 8<sup>th</sup>, 2016.
37. <sup>§</sup>**Riggins, J. J.**, N. A. Clay, J. Tang, C. Siegert, N. S. Little, and L. Gamblin. 2015. Hitchhiker or Harbinger: Where Do Bluestain Fungi Fit in Forest Food Webs? Entomological Society of America Annual Conferences, Minneapolis, MN November 18<sup>th</sup>, 2015.
38. <sup>†</sup>Formby, J. P., N. Krishnan, K. F. Oten, and **J. J. Riggins**. 2015. Laurel wilt beyond the Gulf Coastal Plain. Society of American Foresters National Convention. Baton Rouge, LA, November 3-7, 2015. (Third Place Ph.D. Student Paper)
39. **Riggins, J. J.** 2015. Emerald ash borer invasion of Mississippi. Mississippi Urban Forestry Council annual meeting, Gulfport, MS. August 20, 2015.
40. Clay, N. A., N. S. Little, and **J. J. Riggins**. 2015. Interactions among bark beetles, blue stain fungi, and termites enhance decomposition and biodiversity. Southern Forest Insect Work Conference. Fayetteville, AR, July 20-24, 2015.
41. <sup>†</sup>Formby, J. F., N. Krishnan, K. F. Oten, and **J. J. Riggins**. 2015. Laurel wilt beyond the Atlantic and Gulf Coastal Plains: limitations and secondary impacts. Southern Forest Insect Work Conference. Fayetteville, AR, July 20-24, 2015.
42. Clarke, S. R., **J. J. Riggins**, and F. M. Stephen. 2015. SPB through the (man)ages. Southern Pine Beetle Working Group, Southern Forest Insect Work Conference. Fayetteville, AR, July 20-24, 2015.
43. Gandhi, K. J. K., B. Barnes, J. Bookwalter, D. Robertson, C. Asaro, J. Meeker, D. Miller, W. Johnson, **J. J. Riggins**, W. Shepherd, and B. Sullivan. 2015. Community, population, and chemical ecology of *Sirex* and their parasitoids in the Southeast. Southern Forest Insect Work Conference. Fayetteville, AR, July 20-24, 2015.
44. <sup>§</sup>**Riggins, J. J.**, J. P. Formby. 2015. Modeling the spread of laurel wilt in sassafras: Are additional ecosystems at risk? Conference on Laurel Wilt Disease and Natural Ecosystems: Impacts, Mitigation, and Future. Coral Springs, FL, June 16-18, 2015.
45. <sup>†</sup>Formby, J. P. and **J. J. Riggins**. 2015. Biological control of invasive ambrosia beetles: challenges, options, and alternatives. Student Symposium on Biocontrol, 89<sup>th</sup> Annual Meeting of the Southeastern Branch of the Entomological Society of America. Biloxi, Mississippi. March 15-18, 2015.
46. <sup>§</sup>**Riggins, J. J.** 2015. Status of non-native forest insects threatening Mississippi. International Forest Insect Research Advisory Workshop. Breckenridge, CO, February 10, 2015.
47. **Riggins, J. J.** 2014. The emerald ash borer invasion of Mississippi. Invasive Species Symposium of the 61st Annual Conference of the Mississippi Entomological Association. Mississippi State, MS, October 20-21, 2014.
48. <sup>†</sup>Formby, J. P., M. Hughes, J. Smith, A. Cognato, **J. J. Riggins**. 2014. The unique *symbiology* of laurel wilt: a shift in the invasion paradigm? Invasive Species Symposium of the 61st Annual Conference of the Mississippi Entomological Association. Mississippi State, MS, October 20-21, 2014.
49. Smith, J. A., R. C. Ploetz, J. Hulcr, J. McCutcheon, T. J. Dreaden, M. A. Hughes, D. Spence, K. Shin, S. Inch, **J. J. Riggins**, and A. Campbell. 2014. Current research on the biology and management of laurel wilt in the United States. Florida Native Plant Society Annual Meeting, Ft. Myers, Florida, May 14-18, 2014.

50. **Riggins, J. J.**, N. S. Little, and L. G. Eckhardt. 2014. Subterranean termites and ophiostomatoid fungi: a secret symbiosis? Southwide Forest Disease Workshop, Andalusia, AL, January 14-16, 2014.
51. <sup>§</sup>**Riggins, J. J.**, J. P. Formby, J. Dinkins, K. D. Chase, K. J. K. Gandhi, and N. Krishnan. 2014. Balancing speed vs. biological relevance in modeling alien forest insect invasions. International Forest Insect Research Advisory Workshop, Breckenridge, CO, January 26, 2014.
52. <sup>§†</sup>Formby, J. P., N. Krishnan, A. Cognato, J. Smith, K. Oten, and **J. J. Riggins**. 2013. The future of forest entomology: A case study in the redbay ambrosia beetle. Entomological Society of America, Austin, TX, November 10-13, 2013.
53. **Riggins, J. J.**, and A. Smith. 2013. Current forest health issues in Texas, Arkansas, Louisiana and Mississippi. East Texas Forest Entomology Seminar, Nacogdoches, TX, October 17-18, 2013.
54. **Riggins, J. J.**, J. P. Formby, J. E. Dinkins, K. D. Chase, K. J. K. Gandhi, and N. Krishnan. 2013. Overcoming a lack of biological data in modeling alien forest insect invasions. Southern Forest Insect Work Conference, New Orleans, LA, July 23-26, 2013.
55. Henderson, J. E., A. J. Londo, **J. J. Riggins**, S. Dicke, J. D. Floyd, and B. Bailey. 2013. Protect your pine plantation investment by thinning. Southern Forest Insect Work Conference, New Orleans, LA, July 23-26, 2013.
56. Henderson, J. E., A. J. Londo, J. Gordon, J. Kushla, S. Dicke, J. D. Floyd, B. Bailey, and **J. J. Riggins**. 2013. Mississippi's comprehensive southern pine beetle prevention program: Implementation and economic contribution. Southern Forest Insect Work Conference, New Orleans, LA, July 23-26, 2013.
57. **Riggins, J. J.**, N. S. Little, J. P. Formby, K. D. Chase, N. A. Blount, and R. S. Campbell. 2013. Where are we and where are we headed with forest entomology at Mississippi State University? East Texas Forest Entomology Seminar, Nacogdoches, TX, April 25-26, 2013.
58. **Riggins, J. J. (Panel Member)** 2013. Southern Pine beetle: What the experts say is needed to better manage the South's most destructive pest (Panel Discussion). East Texas Forest Entomology Seminar, Nacogdoches, TX, April 25-26, 2013.
59. Oten, K. L., J. P. <sup>†</sup>Formby, and **J. J. Riggins**. 2013. Environmental impacts of laurel wilt disease: What will happen to the Palamedes swallowtail? Southern Appalachian Forest Entomology and Pathology Seminar, Crossnore, NC, Mar. 7-8, 2013.
60. **Riggins, J. J.**, and N. S. <sup>†</sup>Little. 2013. Exploiting previously unknown interactions between subterranean termites and blue-stain fungi. Invited presentation at the Student-organized symposium, Southeastern Branch meeting of the Entomological Society of America, Baton Rouge, LA, March 5, 2013.
61. <sup>§</sup>**Riggins, J. J.**, and N. S. <sup>†</sup>Little. 2013. Discovery of interactions between subterranean termites and blue-stain fungi. International Forest Insect Research Advisory Workshop, Breckenridge, CO, January 27-30, 2013.
62. <sup>†</sup>Formby, J. P., N. Krishnan, and **J. J. Riggins**. 2012. Cold Tolerance, invasion potential, and current status of the redbay ambrosia beetle in North America. Grandbay National Estuarine Research Reserve Research Symposium. Moss Point, MS, July 2, 2012.
63. <sup>§</sup>**Riggins, J. J.**, J. P. Formby, and N. Krishnan. 2012. Redbay ambrosia beetle and laurel wilt disease: potential impacts on North American laurels. International Forest Insect Research Advisory Workshop, Breckenridge, CO, January 29-February 1, 2012.
64. <sup>§</sup>Stephen, F. M., L. J. Haavik, M. K. Fierke, **J. J. Riggins**, L. D. Galligan, R. N. Coulson, and J. M. Guldin. 2012. Impacts of oak decline and red oak borer outbreak in Arkansas. International Forest Insect Work Conference, Breckenridge, CO, January 29-February 1, 2012.
65. <sup>§</sup>Stephen, F. M., L. J. Haavik, M. K. Fierke, **J. J. Riggins**, L. D. Galligan, R. N. Coulson, and J. M. Guldin. 2011. Innocuous native wood borer goes rogue: causes and consequences of a red oak borer outbreak in Arkansas. Annual Meeting of the Entomological Society of America. Reno, NV, November 15, 2011.

66. <sup>§</sup>Gandhi, K. J. K., B. Barnes, J. E. Dinkins, C. Asaro, J. Dean, W. Johnson, V. Mastro, J. R. Meeker, D. R. Miller, **J. J. Riggins**, L. Schmileck, B. Sullivan, and K. Zylstra. 2011. Behavioral responses of *Sirex noctilio* to southeastern pine species. *Sirex Meeting*, USDA Forest Service and APHIS, Riverdale, MD, May 24-25, 2011.
67. **Riggins, J. J.**, A. E. Mayfield, and J. L. Hanula. 2011. Impacts of redbay ambrosia beetle (*Xyleborus glabratus*) and laurel wilt fungus (*Raffaelea lauricola*) on Lauraceae and forest ecosystems of the southeastern U.S.A. Southeastern Branch meeting of the Entomological Society of America, San Juan, Puerto Rico, March 19-22, 2011.
68. **Riggins, J. J.** 2011. Current status of redbay ambrosia beetle and laurel wilt disease in Mississippi and Alabama. Invited speaker, Auburn University School of Forestry and Wildlife Sciences Spring Seminar Series, February 22, 2011.
69. **Riggins, J. J.** 2010. Status of redbay ambrosia beetle and laurel wilt disease in Mississippi and surrounding states. Mississippi Entomological Association Annual Meeting, Starkville, MS, October 25-26, 2010.
70. **Riggins, J. J.** 2010. Mississippi forest health update. East Texas Forest Entomology Seminar, Nacogdoches, TX, October 14-15, 2010.
71. **Riggins, J. J.**, R. S. Campbell, S. Clarke, and J. Meeker. 2010. Comparison of funnel trap catches in Talladega National Forest: standard lures vs. addition of endo-brevicomin. Southern Forest Insect Work Conference, Wilmington, NC. July 20-23, 2010.
72. Stephen, F. M., L. J. Haavik, M. K. Fierke, **J. J. Riggins**, L. D. Galligan and J. M. Guldin. 2010. The recent oak decline and red oak borer outbreak in Arkansas. Southern Hardwood Forest Research Group Symposium. Stoneville, MS. March 2, 2010.
73. <sup>§</sup>Gandhi, K. J. K., C. Asaro, B. Barnes, J. Dinkins, W. Johnson, V. Mastro, J. R. Meeker, D. Miller, **J. J. Riggins**, and K. E. Zylstra. 2010. Responses of the European woodwasp to southern pine species, and assessing distribution of native woodwasps and their parasitoids in southeastern U.S.A. USDA Interagency Forum on Invasive Species. Annapolis, MD. 12-15 January 2010.
74. <sup>§</sup>**Riggins, J. J.** 2009. Remote sensing of forest insect pests. Annual Meeting of the Entomological Society of America, Indianapolis, IN. December 16, 2009.
75. **Riggins, J. J.** 2009. Las mariposas sagrado: Monarcas de Michoacán, México. Department of Entomology and Plant Pathology Seminar, Mississippi State University. Starkville, MS. September 25, 2009.
76. <sup>§</sup>**Riggins, J. J.**, L. J. Haavik and F. M. Stephen. 2008. Red oak borer outbreak: flash in the pan, or wave of the future? Invited Presentation, Joint National Meeting of the Longleaf Alliance and the Forest Guild. Sandestin, FL. November 1, 2009.
77. <sup>§</sup>**Riggins, J. J.**, J. A. Tullis and F. M. Stephen. 2008. Remote sensing of red oak borer related oak-decline in Arkansas. Southeastern Branch meeting of the Entomological Society of America, Jacksonville, FL.
78. <sup>§</sup>**Riggins, J. J.**, J. A. Tullis and F. M. Stephen. 2007. Estimation of upland oak forest biomass from LIDAR-derived statistics. AmericaView National Meeting, Fayetteville, Arkansas.

## **B. Invited Extension Presentations**

1. **Riggins, J. J.** 2024. Mississippi pine bark beetle outbreak, 2023-2024. Tishomingo County Forestry Association, Tishomingo, MS, May 23<sup>rd</sup>, 2024.
2. **Riggins, J. J.** 2024. Status of needle blight in the South. Timber University Podcast # 263. <http://nrupodcast.extension.msstate.edu/node/3733>. April 24<sup>th</sup>, 2024.
3. **Riggins, J. J.** 2024. 2023-2024 Mississippi pine bark beetle outbreak. Simpson County Forestry Association, Mendenhall, MS, March 28<sup>th</sup>, 2024.
4. **Riggins, J. J.** 2024. MS pine bark beetle outbreaks: status and predictions for 2024. Mississippi Public Lands Meeting, Pearl, MS, March 26<sup>th</sup>, 2024.

5. **Riggins, J. J.** 2024. Update on bark beetle outbreaks and emerging needle health issues in MS pines. Mississippi Forestry Commission Region 1, Tupelo, MS, March 14<sup>th</sup>, 2024.
6. **Riggins, J. J.** 2024. Pine beetles and forest management concerns. Timber University Podcast # 243. <http://nrupodcast.extension.msstate.edu/natural-resources-university/timber-university-pine-beetles-and-forest-management-concerns-243>. March 13<sup>th</sup>, 2024.
7. **Riggins, J. J.** 2024. Status of pine bark beetle outbreaks in MS. Mississippi Forestry Commission Region 3, Pearl, MS, March 13<sup>th</sup>, 2024.
8. **Riggins, J. J.** 2024. The pine bark beetle situation in MS. Mississippi Consulting Foresters Association State Meeting, Pearl, MS, March 7<sup>th</sup>, 2024.
9. **Riggins, J. J.** 2024. Status of pine bark beetles in Mississippi. Mississippi Forestry Commission Region 2, Grenada, MS, March 5<sup>th</sup>, 2024.
10. **Riggins, J. J.** 2024. Mississippi Pine Bark Beetle Update. Choctaw County Forestry Association, Ackerman, MS, February 29<sup>th</sup>, 2024.
11. **Riggins, J. J.** 2024. Mississippi Southern Pine Beetle Outbreak. Mississippi State Senate Forestry Committee, Jackson, MS, February 7<sup>th</sup>, 2024.
12. **Riggins, J. J.** 2023. Mississippi Pine Beetle Update. Lincoln County Mississippi Forestry Association Meeting, Brookhaven, MS, October 21st, 2023.
13. **Riggins, J. J.** 2019. Mississippi Forest Health Update. Region 2 Mississippi Forestry Commission. Philadelphia, MS, December 4<sup>th</sup>, 2019.
14. **Riggins, J. J.** 2019. Mississippi southern pine beetle field training. Region 1 Mississippi Forestry Commission. Lafayette Springs, MS, June 13<sup>th</sup>, 2019.
15. **Riggins, J. J.** Beetles threatening Mississippi forests. 2018. Loblolly Chapter of the Society of American Foresters. Starkville, MS, December 13<sup>th</sup>, 2018.
16. **Riggins, J. J.** Pine beetles in Mississippi. 2018. Mississippi Association of Conservation Districts Annual Meeting. Jackson, MS, January 18<sup>th</sup>, 2018.
17. **Riggins, J. J.** Southern pine beetle signs, symptoms, and control. Mississippi Forestry Commission, Northeast District Forester Training Session, Tupelo, MS. March 9, 2017.
18. <sup>†</sup>Formby, J. P., K. Oten, and **J. J. Riggins**. Laurel wilt drives palamedes swallowtail decline. Oktibbeha County Audubon Society, Fall 2015. Mississippi State, MS, September 10, 2015.
19. **Riggins, J. J.** 2015. Mississippi forest health update. Mississippi Forestry Commission, South Central District Forester Training Session, Bay Springs, MS. August 4, 2015.
20. **Riggins, J. J.** 2015. Mississippi forest health update. Mississippi Forestry Commission, East Central District Forester Training Session, Philadelphia, MS. July 16, 2015.
21. **Riggins, J. J.** 2015. Mississippi forest health update. Mississippi Forestry Commission, Northeast District Forester Training Session, Tupelo, MS. May 28, 2015.
22. **Riggins, J. J.** 2014. Mississippi forest health update. Mississippi Forestry Commission, Southeast District Forester Training Session, Wiggins, MS. April 17, 2014.
23. **Riggins, J. J.** 2014. Mississippi forest health update. Mississippi Forestry Commission, Northeast District Forester Training Session, Grenada, MS. April 2, 2014.
24. **Riggins, J. J.** 2013. Mississippi forest health concerns. Mississippi Forestry Commission, Southwest District Forester Training Session, Brookhaven, MS. August 30, 2013.
25. **Riggins, J. J.** 2013. Mississippi forest health concerns. Mississippi Forestry Commission, Capital District Forester Training Session, Pearl, MS. July 7, 2013.

26. **Riggins, J. J.** 2013. USDA Forest Service, Mississippi Forestry Commission, and Alabama Forestry Commission Forest Inventory and Analysis (FIA) insect damage, signs and symptoms training. 2013. Tuscaloosa Fire College, Tuscaloosa, AL. July 31, 2013.
27. **Riggins, J. J.**, A. J. Londo, N. S. Little, and D. J. Floyd. 2012. The southern pine beetle in Mississippi. Southern Pine Beetle County Extension meeting, Bude, MS. September 11, 2012.
28. <sup>†</sup>Little, N. S., A. J. Londo, and **J. J. Riggins**. 2012. Dealing with the blues: utilization of blue-stained timber. Southern Pine Beetle County Extension meeting, Bude, MS. September 11, 2012.
29. **Riggins, J. J.** 2012. Forest health issues in Mississippi. Mississippi Forestry Commission, South Central District Forester Training Session, Bay Springs, MS. July 3, 2012.
30. **Riggins, J. J.** 2012. Mississippi forest health update. Mississippi Forestry Commission, Northeast District Forester Training Session, Tupelo, MS. July 14, 2012.
31. **Riggins, J. J.** 2012. Threats to Mississippi forest health. Mississippi Forestry Commission, East Central District Forester Training Session, Philadelphia, MS. June 11, 2012.
32. **Riggins, J. J.** 2011. Invasive Species: Threats to Mississippi Forests. Continuing Forester Education Workshop. Forrest County Extension Office. December 13<sup>th</sup>, 2011.
33. **Riggins, J. J.**, J. D. <sup>†</sup>Floyd, and A. J. Londo. 2010. Ongoing research into *Ips* beetle utilization of logging residuals from 3rd and 5th row thinning operations on the John Starr Memorial Forest. Field Tour Stop for visiting delegation of Chinese Natural Resource Managers. Starkville, MS. July 24, 2010.
34. **Riggins, J. J.**, and A. J. Londo. 2010. Emerald ash borer update. Holmes County Forestry Association. March 9, 2010
35. **Riggins, J. J.** and A. E. Mayfield. 2009. Redbay ambrosia beetle and laurel wilt disease in Mississippi. Training session. Mississippi Sandhill Crane Wildlife Refuge, Gautier, MS. August 13, 2009.
36. **Riggins, J. J.**, and A. J. Londo. 2009. Emerald ash borer (EAB): A potential threat to ash trees in Mississippi forests and communities. Holmes County Forestry Association, Lexington, MS. March 9, 2009.
37. **Riggins, J. J.**, L. Haavik, R. Verble, L. D. Galligan, M. McClung and F. M. Stephen. 2007. Discussion on continuing red oak borer research in the Ozarks. Field trip stop and presentation. Joint Meeting of the Arkansas Registered Foresters and Arkansas Division of the Society of American Foresters, Arkansas Tech University, Russellville, AR.

### **C. Submitted Conference Presentations**

1. <sup>†</sup>Wagner, K. W, S. F. Ward, A. M. Liebhold, E. G. Brockerhoff, R. Turner, and **J. J. Riggins**. 2022. Invasion patterns of Siricidae species intercepted at North American ports. Southern Forest Insect Work Conference, Lexington, Kentucky, June 21-23rd, 2022.
2. Benedetto, N., **J. J. Riggins**, C. M. Siegert, J. D. Tang, N. A. Clay. 2022. What lies below: The presence of dead wood and bluestain fungi does not alter leaf litter brown food webs after 1 year. Southern Forest Insect Work Conference, Lexington, Kentucky, June 21-23rd, 2022.
3. Clay, N. A., C. M. Siegert, J. D. Tang, J. W. Thomason, **J. J. Riggins**. 2022. Bark beetle attack effects on coarse woody debris decomposition, termites, beetles, and ants: Patterns vary across space and time. Southern Forest Insect Work Conference, Lexington, Kentucky, June 21-23rd, 2022.
4. Ward, S. F., and **J. J. Riggins**, Landscape-level drivers of spread by laurel wilt disease across the southeastern US. Entomological Society of America, Denver, Colorado, October 31 – November 3rd, 2021.
5. <sup>†</sup>Wagner, K. E., S. F. Ward, A. M. Liebhold, E. G. Brockerhoff, R. Turner, and **J. J. Riggins**. 2021. Movement of woodwasps in invasion pathways through USA and New Zealand ports. Mississippi Entomological Association, Mississippi State, Mississippi. November 8, 2021
6. <sup>†</sup>Wagner, K. E., S. F. Ward, A. M. Liebhold, E. G. Brockerhoff, R. Turner, and **J. J. Riggins**. 2021. Movement of woodwasps in international invasion pathways. Entomological Society of America, Denver, Colorado, November 1, 2021

7. <sup>§†</sup>Wagner, K. E., R. Jetton, S. Ward, J. Hartshorn, **J. J. Riggins**. 2021. Of drought and density: evaluating the effects of drought and forest management on invasive *Sirex noctilio*. North American Forest Insect Work Conference, Virtual, May 25, 2021
8. <sup>†</sup>Wagner, K. E., R. Jetton, J. Hartshorn, D. Avtzis, **J. J. Riggins**. 2021. Of drought and density: evaluating the effects of drought and forest management on invasive *Sirex noctilio*. Graduate Research Symposium, Mississippi State, Mississippi, February 27, 2021
9. <sup>†</sup>Thomason, J. W., T. Matthews, D. Coyle, J. Smith, **J. J. Riggins**. 2020. Cache Me Outside: Geocaching as a Forest Health Outreach Tool. Southern Appalachian Forest Entomology and Pathology Seminar, Crossnore, North Carolina, March 5-6th, 2020.
10. Clay, N. A., C. Samples, J. Tang, C. M. Siegert, and **J. J. Riggins**. 2019. Impacts of bark-beetle attacked wood on detrital processes after one year. Southern Forest Insect Work Conference, Savannah, GA, July 26<sup>th</sup>, 2019.
11. <sup>†</sup>Thomason, J., S. Clarke, R. Billings, D. Cox, D. Grosman, **J. J. Riggins**. 2019. Using lethal trap trees to reduce the infestation potential of southern pine beetle at the landscape scale. East Texas Forest Entomology Seminar, Nacogdoches, Texas, May 9-10th, 2019.
12. <sup>†</sup>McAndrew, K. M., N. A. Clay, C. M. Siegert, J. D. Tang, **J. J. Riggins**. 2019. Saproxylic invertebrate biodiversity in dead wood generated by bark beetles. East Texas Forest Entomology Seminar, Nacogdoches, TX, May 10<sup>th</sup>, 2019.
13. <sup>†</sup>Wagner, K., R. Jetton, J. Hartshorn, D. Avtzis, and **J. J. Riggins**. 2019. Optimizing Forest management practices to minimize economic impact of *Sirex noctilio*. East Texas Forest Entomology Seminar, Nacogdoches, Texas, May 8-10<sup>th</sup>, 2019
14. <sup>†</sup>Dearing, N., N. A. Clay, C. M. Siegert, J. D. Tang, **J. J. Riggins**. 2019. Effects of Ophiostomatoid fungi on cellulose digestion in subterranean termites. East Texas Forest Entomology Seminar, Nacogdoches, TX, May 10<sup>th</sup>, 2019.
15. Siegert, C. M., N. A. Clay, J. Tang, L. G. Garrigues, and **J. J. Riggins**. 2018. Short-term carbon and nitrogen dynamics of coarse woody debris decomposition: interactions among bark beetles and fungi [and subterranean termites]. Ecological Society of America. New Orleans, Louisiana, August 6 – 10<sup>th</sup>, 2018.
16. Clay, N. A., C. M. Siegert, J. Tang, L. G. Garrigues, and **J. J. Riggins**. 2018. Multitrophic interactions alter biogeochemistry after one year in a coarse woody debris experiment: Interactions among bark beetles, fungi, and subterranean termites. Ecological Society of America. New Orleans, Louisiana, August 6 – 10<sup>th</sup>, 2018.
17. Morin, C. M., J. Tang, C. Siegert, N. S. Little, **J. J. Riggins**, and N. A. Clay. 2018. Ant and detrital communities impacted by bluestain fungi (Ascomycota: Ophiostomatoid) inoculation in coarse woody debris. College of Applied and Natural Sciences Research Day, Louisiana Tech University.
18. <sup>†</sup>Bares, H. M., R. L. Brown, N. A. Clay, R. M. Verble-Pearson, and **J. J. Riggins**. 2018. Effects of prescribed fire and coarse woody debris volume on exotic ambrosia beetle populations (Coleoptera: Curculionidae: Scolytinae and Platypodinae) in south Alabama. Southern Forest Insect Work Conference, San Antonio, Texas, July 18<sup>th</sup>, 2018.
19. **Riggins, J. J.**, A. D. Chupp, J. P. Formby, N. A. Dearing, H. M. Bares, R. L. Brown, and K. F. Oten. 2018. Arthropod Herbivores at Risk from Laurel Wilt Induced Hostplant Mortality. East Texas Forest Entomology Seminar, Nacogdoches, TX, April 20<sup>th</sup>, 2018.
20. **Riggins, J. J.**, A. D. Chupp, J. P. Formby, N. A. Dearing, H. M. Bares, R. L. Brown, and K. F. Oten. 2018. Trophic cascade following laurel wilt disease: Who is at risk? Southern Appalachian Forest Entomology and Pathology Seminar. Crossnore, NC, March 15<sup>th</sup>, 2018.
21. <sup>§</sup>**Riggins, J. J.**, N. A. Clay, C. M. Siegert, and J. Tang. 2017. Unlikely partners: Bark Beetles, Ophiostomatoid fungi, and subterranean termites. IUFRO Joint Meeting of Working Parties 7.03.05 and 7.03.10, Forest Insects and Pathogens in a Changing Environment: Ecology, Monitoring, and Genetics. Thessaloniki, Greece, September 11th-15th, 2017.

22. <sup>§</sup>Riggins, J. J., M. Hughes, A. Cognato, F. Koch, and J. Smith. 2017. Single introduction event of an ambrosia beetle and its fungal symbiont threaten entire plant family in North America. IUFRO Joint Meeting of Working Parties 7.03.05 and 7.03.10, Forest Insects and Pathogens in a Changing Environment: Ecology, Monitoring, and Genetics. Thessaloniki, Greece, September 11<sup>th</sup>-15<sup>th</sup>, 2017.
23. <sup>†</sup>Bares, H. M., R. L. Brown, N. A. Clay, R. M. Verble-Pearson, and J. J. Riggins. 2017. Non-native ambrosia beetle (Coleoptera: Curculionidae: Scolytinae) host selection and effects of prescribed fire on exotic proportion. Southern Forest Insect Work Conference, Melbourne, FL, July 25<sup>th</sup>-28<sup>th</sup>, 2017.
24. Billings, R., S. Clarke, J. Meeker, J. Nowak, and J. J. Riggins. 2017. Improving the SPB prediction system. East Texas Forest Entomology Seminar, Nacogdoches, TX, April 22, 2017.
25. <sup>†</sup>Dearning, N. A., N. Krishnan, N. A. Clay, J. Tang, C. M. Siegert, and J. J. Riggins. 2017. Physiological effects on native subterranean termites from feeding on wood infected with bluestain fungi. East Texas Forest Entomology Seminar, Nacogdoches, TX, April 22, 2017.
26. <sup>†</sup>Thorn, M. J., R. L. Brown, J. Gordon, and J. J. Riggins. 2017. Contradictions in camper attitudes and actions in the movement of recreational firewood. East Texas Forest Entomology Seminar, Nacogdoches, TX, April 21, 2017.
27. Riggins, J. J., J. P. Formby, J. C. Rodgers, F. Koch, N. Krishnan, and D. Duerr. The Cold Shoulder: Will cold winters protect sassafras from the redbay ambrosia beetle? Southern Appalachian Forest Entomology and Pathology Seminar, Crossnore, NC, March 2-3, 2017.
28. <sup>†</sup>Bares, H. M., R. L. Brown, and J. J. Riggins. 2017. Hosts for newly detected exotic ambrosia beetles (Coleoptera: Curculionidae: Scolytinae) and impacts of management on establishment. Southern Appalachian Forest Entomology and Pathology Seminar, Crossnore, NC, March 2-3, 2017.
29. <sup>†</sup>Dearing, N. A., N. Krishnan, N. A. Clay, J. Tang, C. M. Siegert, and J. J. Riggins. 2017. Physiological effects on native subterranean termites from feeding on wood infected with blue-stain fungi. Southern Appalachian Forest Entomology and Pathology Seminar, Crossnore, NC, March 2-3, 2017.
30. <sup>§</sup>Mayfield A.E., J. Smith, S. Fraedrich, J. J. Riggins, M. Hughes, and J. Hanula. 2016. Impacts of the redbay ambrosia beetle and the laurel wilt pathogen in southeastern USA. North American Forest Insect Work Conference, Washington, D.C., May 31-June 3, 2016.
31. <sup>†</sup>Bares, H. M., J. J. Riggins, R. L. Brown, N. A. Clay, R. M. Verble-Pearson. 2016. Exotic ambrosia beetle (Coleoptera: Curculionidae: Scolytinae) establishment factors and hosts for newly detected species in southern Alabama. North American Forest Insect Work Conference. Washington D.C., May 30-June 3, 2016.
32. Thorn, M. J., and J. J. Riggins. 2016. A Survey of Recreational Firewood as a Vector of Non-Native Wood Borers in Mississippi. East Texas Forest Entomology Seminar, Nacogdoches, TX, April 20-22, 2016.
33. <sup>†</sup>Bares, H. M., J. J. Riggins, R. L. Brown, N. A. Clay, and R. M. Verble-Pearson. 2016. Establishment factors and North American hosts for newly detected exotic ambrosia beetles (Coleoptera: Curculionidae: Scolytinae) in southern Alabama. East Texas Forest Entomology Seminar. Stephen F. Austin University, Nacogdoches, TX, April 20-22, 2016.
34. <sup>†</sup>Thomason, J. W., J. J. Riggins, S. Clarke, and J. Meeker. 2016. Bloom or Bust? An Examination of the Southern Pine Beetle (*Dendroctonus frontalis*) Spring Trap Deployment Dates. East Texas Forest Entomology Seminar. Nacogdoches, TX, April 21-22, 2016.
35. Billings, R., B. Upton, L. Spivey, M. Murphrey, S. Clarke, J. Meeker, B. Sullivan, J. J. Riggins. 2016. Improving the SPB Prediction System: Team Work in Progress. East Texas Forest Entomology Seminar. Nacogdoches, TX, April 21-22, 2016.
36. <sup>†</sup>Formby, J. P., N. Krishnan, and J. J. Riggins. 2015. Attack of the clones: the invasion potential of the redbay ambrosia beetle (*Xyleborus glabratus*) in North America. 63rd Annual Meeting of the Entomological Society of America. Minneapolis, MN, November 15-18, 2015.



37. **Riggins, J. J.**, N. A. Clay, J. Tang, C. Siegert, N. S. Little, and L. Gamblin. 2015. Interactions among bark beetles, blue stain fungi, and termites enhance decomposition and biodiversity. East Texas Forest Entomology Seminar. Stephen F. Austin University, Nacogdoches, TX, October 29-30, 2015.
38. <sup>†</sup>Thomason, J. W., **J. J. Riggins**, and S. Clarke. 2015. Predicting the Peak Spring Flight Dispersal and Examining Natal Host Influence on Host Selection for Southern Pine Beetle (*Dendroctonus frontalis*). East Texas Forest Entomology Seminar. Stephen F. Austin University, Nacogdoches, TX, October 29-30, 2015.
39. Coulson, R. N. and **J. J. Riggins**. 2015. Southern forest insect work conference 2015 program update. East Texas Forest Entomology Seminar. Nacogdoches, TX, April 23-24, 2015.
40. <sup>§†</sup>Formby, J. P., K. Oten, and **J. J. Riggins**. 2014. Laurel wilt drives palamedes decline. 62nd Annual Meeting of the Entomological Society of America. Portland, OR, November 16-19, 2014.
41. <sup>†</sup>Formby, J. P., K. Oten, and **J. J. Riggins**. 2014. Metamorphosis no more: laurel wilt drives palamedes decline. The 61st Annual Conference of the Mississippi Entomological Association. Mississippi State, MS, October 20-21, 2014.
42. <sup>§</sup>Kushla, J., J. Henderson, S. Dicke, A. Ezell, J. Gordon, G. Hughes, B. Self, D. Bales, B. Bailey, **J. J. Riggins**, J. <sup>†</sup>Floyd, A. Londo, R. Chapin, J. Hancock, and J. Meeker. 2014. Mississippi's comprehensive program for southern pine beetle prevention: Extension forestry's role and the economic contribution. International Union of Forestry Research Organization, Salt Lake City, UT, October 6-10, 2014.
43. <sup>†</sup>Formby, J. P., K. Oten, and **J. J. Riggins**. 2014. Metamorphoses no more: laurel wilt drives palamedes decline. Southern Forest Insect Work Conference, Charleston, SC, July 22-25, 2014.
44. <sup>†</sup>Formby, J. P., K. Oten, and **J. J. Riggins**. 2014. Cascade effect of laurel wilt disease on the palamedes swallowtail butterfly. 88th Annual Meeting of the Southeastern Branch of ESA. Greenville, SC, March 1-5, 2014.
45. <sup>†</sup>Formby, J. P., N. Krishnan, and **J. J. Riggins**. 2013. Cold tolerance of the Redbay Ambrosia Beetle, *Xyleborus glabratus* Eichoff. Southern Forest Insect Work Conference, New Orleans, LA. July 23-26, 2013.
46. <sup>§†</sup>Formby, J. P., N. Krishnan, W. Underwood, and **J. J. Riggins**. 2012. Supercooling and cold tolerance in the redbay ambrosia beetle (*Xyleborus glabratus*)- implications for invasion potential in the northern latitudes of North America. Annual Meeting of the Entomological Society of America Meeting. Knoxville, TN. November 10-13, 2012.
47. <sup>§†</sup>Chase, K. D., K. J. K. Gandhi, and **J. J. Riggins**. 2012. Forest stand type preference of *Sirex nigricornis* (Hymenoptera: Siricidae) in Mississippi. Annual Meeting of the Entomological Society of America. Knoxville, TN. November 11-14.
48. <sup>§†</sup>Little, N. S., T. P. Schultz, S. V. Diehl, A. J. Londo, and **J. J. Riggins**. 2012. Subterranean termite feeding preference for wood containing various sap-stain fungi. Annual Meeting of the Entomological Society of America. Knoxville, TN. November 11-14.
49. <sup>†</sup>Formby, J. P., N. Krishnan, W. Underwood, and **J. J. Riggins**. 2012. Supercooling and cold tolerance in the redbay ambrosia beetle (*Xyleborus glabratus*)- implications for invasion potential in the northern latitudes of North America. Mississippi Entomological Association Annual Meeting. Mississippi State, MS. November 22-23, 2012. (First Place Ph.D. Student Paper)
50. <sup>†</sup>Little, N. S., T. P. Schultz, S. V. Diehl, A. J. Londo, and **J. J. Riggins**. 2012. Feeding preference of subterranean termites for wood inoculated with various sap-stain fungi. Southern Forest Insect Work Conference. Charlottesville, VA. July 24-27.
51. <sup>†</sup>Chase, K.D., Gandhi, K.J.K., **J.J. Riggins**. 2012. *Sirex nigricornis* (F.) (Hymenoptera: Siricidae) abundance in various forest stand types in Mississippi. Southern Forest Insect Work Conference. Charlottesville, VA. July 24-27, 2012. (First Place Graduate Student Paper)

52. <sup>†</sup>Formby, J. P., N. Krishnan, W. Underwood, and **J. J. Riggins**. 2012. Supercooling in the redbay ambrosia beetle (*Xyleborus glabratus*)- implications for invasion potential in the northern latitudes of North America. Southern Forest Insect Work Conference. Charlottesville, VA. July 24-27, 2012.
53. Kushla, J. D., J. E. Henderson, A. J. Londo, J. S. Gordon, G. Bales, A. S. Bailey, J. D. Floyd, and **J. J. Riggins**. 2012. Mississippi's comprehensive program for southern pine beetle prevention: Extension Forestry's role and the economic contribution. Association of Natural Resource Extension Professionals 8th Biennial Conference. North Carolina State University, Raleigh, NC. May 18-23, 2012.
54. <sup>†</sup>Formby, J. P., N. Krishnan, and **J. J. Riggins**. 2012. Supercooling the redbay ambrosia beetle (*Xyleborus glabratus* Eichoff). East Texas Forest Entomology Seminar, Nacogdoches, TX. April 13-14, 2012.
55. <sup>†</sup>Little, N. S., T. P. Schultz, S. V. Diehl, A. J. Londo, and **J. J. Riggins**. 2012. Field evaluations of subterranean termite preference for wood inoculated with various sap-stain fungi. East Texas Forest Entomology Seminar, Nacogdoches, TX. April 25-27.
56. <sup>†</sup>Chase, K.D, K.J.K. Gandhi, and **J.J. Riggins**. 2012. Native siricid and parasitoid abundance, phenology, and distribution. East Texas Forest Entomology Seminar, Nacogdoches, TX. April 26-27, 2012.
57. <sup>†</sup>Little, N. S., T. E. McConnell, S. Q. Shi, and **J. J. Riggins**. 2011. Surface properties of blue-stained southern pine from bark beetle-attacked trees. East Texas Forest Entomology Seminar, Nacogdoches, TX. October 13-14, 2011.
58. <sup>†</sup>Formby, J. P., K. C. Allen, and **J. J. Riggins**. 2011. Cold temperature tolerance of the redbay ambrosia beetle (*Xyleborus glabratus* Eichoff). East Texas Forest Entomology Seminar, Nacogdoches, TX. October 13-14, 2011.
59. <sup>†</sup>Blount, N. A., N. S. Little, A. J. Londo, M. D. Ulyshen, A. R. Lax, and **J. J. Riggins**. 2011. Subterranean termite utilization of living trees: Inspection of recently harvested timber stumps. East Texas Forest Entomology Seminar, Nacogdoches, TX. October 13-14, 2011.
60. <sup>†</sup>Chase, K. D., J. E. Dinkins, K. J. K. Gandhi, J. R. Meeker and **J. J. Riggins**. 2011. Native Siricid abundance and *Sirex noctilio* hazard in the southeastern USA. East Texas Forest Entomology Seminar, Nacogdoches, TX. October 13-14, 2011.
61. <sup>†</sup>Little, N. S., T. E. McConnell, N. E. Irby, **J. J. Riggins**, and S. Q. Shi. 2011. Wettability of southern pine subjected to bark beetle blue-stain fungal associates. Forest Products Society International Convention, Portland, OR. June 19-21, 2011.
62. <sup>†</sup>Little, N. S., **J. J. Riggins**, A. J. Londo, T. P. Schultz, and D. D. Nicholas. 2011. Preference of *Reticulitermes flavipes* (Kollar) for southern pine blue-stained sapwood from beetle-killed trees. The International Research Group on Wood Protection Annual Meeting. Kuala Lumpur, Malaysia. May 6-10.
63. <sup>†</sup>Campbell, R. S., A. J. Londo, and **J. J. Riggins**. 2011. Mississippi Southern Pine Beetle Prevention Program. Mississippi Women in Agriculture Conference, Starkville, MS. April 12, 2011.
64. <sup>†</sup>Dinkins, J., **J. J. Riggins**, L. Schimleck, B. Sullivan, V. Mastro, K. E. Zylstra, and K. J. K. Gandhi. 2011. Preferences of *Sirex noctilio* to southern pines: bioassays and attraction mechanisms. Daniel B. Warnell Graduate Student Symposium, University of Georgia, Athens, GA. March 3-4, 2011.
65. <sup>†</sup>Little, N. S. and **J. J. Riggins**. 2011. Evidence for interactions between native subterranean termites and bark beetles in the southeastern United States. Southeastern Branch meeting of the Entomological Society of America, San Juan, PR. March 19-22, 2011.
66. Henderson, J. E., A. J. Londo, and **J. J. Riggins**. 2011. Mississippi's Comprehensive Southern Pine Beetle Prevention Program-Implementation and economic contribution. Southern Silvicultural Research Conference. Charleston, SC. February 15-17, 2011.
67. <sup>†</sup>Little, N. S. and **J. J. Riggins**. 2010. Preliminary evidence for previously undescribed termite and bark beetle interactions. Mississippi Entomological Association Annual Meeting, Starkville, MS. October 25-26, 2010.

68. <sup>†</sup>Little, N. S. and **J. J. Riggins**. 2010. Feeding preference of *R. flavipes* for blue-stained wood and wood treated with various SPB pheromone components. East Texas Forest Entomology Seminar, Nacogdoches, TX. October 14-15, 2010.
69. <sup>†</sup>Campbell, R.S., and **J. J. Riggins**. 2010. PCR analysis of gut contents of checkered (clerid) beetles. East Texas Forest Entomology Seminar, Nacogdoches, TX. October 14-15, 2010.
70. <sup>§</sup>**Riggins, J. J.** 2010. First report of laurel wilt disease in sassafras in Mississippi. Southern Forest Insect Work Conference, Wilmington, NC. July 20-23, 2010.
71. <sup>†</sup>Dinkins, J., **J. J. Riggins**, V. Mastro, K. E. Zylstra, and K. J. K. Gandhi. 2010. Southern pine colonization preferences of the European woodwasp (*Sirex noctilio*): Preliminary results. Daniel B. Warnell Graduate Student Symposium, University of Georgia, Athens, GA. 4-5 March 2010.
72. <sup>†</sup>Floyd, J. D., A. J. Londo, **J. J. Riggins**, T. E. Nebeker. 2010. Seasonal effects of first commercial thinning on *Ips* beetle activity in north Mississippi loblolly pine stands. Southern Forest Insect Work Conference, Wilmington, NC. July 20-23, 2010.
73. <sup>†</sup>Dinkins, J. E., **J. J. Riggins**, V. Mastro, K. E. Zylstra, and K. J. K. Gandhi. 2010. Oviposition and colonization preferences of *Sirex noctilio* on southern pine species. Southern Forest Insect Work Conference, Wilmington, NC. July 20-23, 2010.
74. <sup>§</sup>Londo, A. J., L. Jones, **J. J. Riggins**, T. E. Nebeker, J. Meeker, J. Kushla, S. Dicke, and G. Hughes. 2010. The changing environment for forest health extension education in Mississippi. Natural Resource Extension Professionals Conference, Fairbanks, AK. June 27-30, 2010.
75. **Riggins, J. J.**, R. Chapin, C. Steiner, and W. Johnson. 2009. Status of redbay ambrosia beetle in Mississippi. East Texas Forest Entomology Symposium, Nacogdoches, TX. October 22, 2009.
76. <sup>§</sup>Stephen, F. M., L. J. Haavik, M. K. Fierke, **J. J. Riggins**, L. D. Galligan and J. M. Guldin. 2009. History and dynamics of red oak borer in Arkansas. International Union of Forest Research Organizations conference "Forest insects and environmental change". Jackson Hole, Wyoming. September 27 - October 2, 2009.
77. <sup>§</sup>**Riggins, J. J.**, J. A. Tullis and F. M. Stephen. 2007. LIDAR derived forest metrics used to model red oak borer related oak decline. Annual Meeting of the Entomological Society of America, San Diego, CA.
78. <sup>§</sup>Stephen, F. M., M. K. Fierke, **J. J. Riggins** and L. J. Haavik. 2007. Red oak borer: here today, gone tomorrow? International Union of Forest Research Organizations, Vienna, Austria.
79. **Riggins, J. J.**, J. A. Tullis and F. M. Stephen. 2007. Seeing the forest AND the trees: high resolution remote sensor technology and a destructive forest insect pest. Southern Forest Insect Work Conference, Jekyll Island, GA.
80. <sup>§</sup>Tullis, J. A., J. Wilson, J. Defibaugh, F. M. Stephen, M. Fierke and **J. J. Riggins**. 2007. Remote sensing-assisted decision support for red oak borer Hazard response in upland oak-hickory forests. American Society of Photogrammetry and Remote Sensing Annual Convention, Tampa, Florida.
81. **Riggins, J. J.** 2006. Remote sensing: Application at multiple spatial scales. East Texas Forest Entomology Symposium, Nacogdoches, TX.

#### **D. Conference Poster Presentations**

1. Anger, N., K. Smith, J. W. Thomason, **J. J. Riggins**, and J. Smith. Etiology of brown spot needle blight on loblolly pine: an emerging pine epidemic in the U.S. Southeast. USDA Interagency Forum on Invasive Species, Ammanopolis, MD, February 25<sup>th</sup>, 2025.
2. Ward, S. F., and **J. J. Riggins**. 2022. Spatiotemporal changes in invasion speed by laurel wilt disease. Poster presentation at the Southern Forest Insect Work Conference, Lexington, Kentucky, June 21-23rd, 2022.

3. §Little, N. S., T. P. Schultz, and **J. J. Riggins**. 2022. Fungal attractant to enhance termite bait stations. Poster presentation at TechConnect World Innovation Conference & Expo, National Harbor, MD, June 14th, 2022. (Presented by J. J. Riggins)
4. †Wagner, K. W., S. F. Ward, A. Liebhold, E. Brockerhoff, R. Turner, and **J. J. Riggins**. Movement of woodwasps in international invasion pathways. Entomological Society of America, Denver, Colorado, October 31st – November 3rd, 2021.
5. †Wagner, K. E., R. Jetton, S. Ward, J. Hartshorn, D. Beresford, and **J. J. Riggins**. 2021. Forest management during drought events: an effective control method for *Sirex nigricornis*, a proxy for *Sirex noctilio*. Entomological Society of America Annual Conference, Denver, Colorado, November 3, 2021.
6. †McAndrew, Kristy, N.A. Clay, C. M. Siegert, J. D. Tang, and **J. J. Riggins**. 2019. Emergent methods for estimating insect biodiversity in dead wood. Entomological Society of America Annual Conference, St. Louis, MO, November 18, 2019.
7. †Wagner, K., R. Jetton, J. Hartshorn, D. Avtzis, and **J. J. Riggins**. 2019. Analyzing impacts of drought and forest management practices on invasive *Sirex noctilio*. Entomology Society of America Annual Conference, St. Louis, Missouri, November 18th, 2019
8. †Wagner, K., R. Jetton, J. Hartshorn, D. Avtzis, and **J. J. Riggins**. 2019. Impacts of global drought and forest management practices on *Sirex noctilio*. International Union of Forest Research Organizations, Pretoria, South Africa, November 5th, 2019
9. †McAndrew, K. M., N. A. Clay, C. M. Siegert, J. Tang, and **J. J. Riggins**. 2019. Beyond the beetle: analyzing saproxylic invertebrate biodiversity following simulated bark beetle attack. Southern Forest Insect Work Conference, Savannah, Georgia, July 23<sup>rd</sup>-26<sup>th</sup>, 2019
10. †Wagner, K., **J. J. Riggins**, R. Jetton, J. Hartshorn, D. Avtzis. 2019. Optimizing Forest management practices to minimize economic impact of *Sirex noctilio*. Southern Forest Insect Work Conference, Savannah, Georgia, July 23<sup>rd</sup>-26<sup>th</sup>, 2019
11. Samples, C. J. Tang, C. M. Siegert, N. S. Little, **J. J. Riggins**, and N. A. Clay. 2019. Bark beetle influence on the diversity of leaf litter communities. Louisiana Tech University Research Day.
12. Grounds, A., J. Tang, C. M. Siegert, N. S. Little, **J. J. Riggins**, and N. A. Clay. 2019. Invertebrate population estimation through decomposing wood in berlese funnels. Louisiana Tech University Research Day.
13. Grounds, A., J. Tang, C. M. Siegert, N. S. Little, **J. J. Riggins**, and N. A. Clay. 2019. Invertebrate Population Estimation through Decomposing Wood in Berlese Funnels. University of Louisiana System Academic Summit, Grambling, LA.
14. Grounds, A., J. Tang, C. M. Siegert, N. S. Little, **J. J. Riggins**, and N. A. Clay. 2019. Berlese Funnels as a Method for Invertebrate Extraction from Deadwood. East Texas Forest Entomology Symposium, Nacogdoches, TX.
15. †McAndrew, K. M., N. A. Clay, C. M. Siegert, J. D. Tang, and **J. J. Riggins**. 2018. Saproxylic invertebrate diversity at family level following simulated bark beetle attack. Mississippi Entomological Association Annual Conference. Starkville, MS, October 22, 2018.
16. †Wagner, K., R. Jetton, J. Hartshorn, D. Avtzis, and **J. J. Riggins**. 2018. Optimizing Forest management practices to minimize economic impact of *Sirex noctilio*. Mississippi Entomology Association, Starkville, Mississippi, October 22<sup>nd</sup>-23<sup>rd</sup>, 2018
17. †Wagner, K., R. Jetton, J. Hartshorn, D. Avtzis, and **J.J. Riggins**. 2018. Optimizing Forest management practices to minimize economic impact of *Sirex noctilio*. Biochemistry, Molecular Biology, Entomology and Plant Pathology Research Symposium, Starkville, Mississippi, November 16<sup>th</sup>, 2018

18. †McAndrew, K. M., N. A. Clay, C. M. Siegert, J. D. Tang, and **J. J. Riggins**. 2018. Saproxylic invertebrate diversity at family level following simulated bark beetle attack. Mississippi State University Biochemistry, Molecular Biology, Entomology, and Plant Pathology Student Research Symposium, Starkville, MS, November 16<sup>th</sup>, 2018.
19. †Dearing, N, N. A. Clay, C. M. Siegert, J. D. Tang, **J. J. Riggins**. 2018. Effects of consuming wood infected with ophiostomatoid fungi on the physiology of subterranean termites. East Texas Forest Entomology Seminar, Nacogdoches, TX, April, 2018.
20. Morin, C.M., J. Tang, C. M. Siegert, N. S. Little, **J. J. Riggins**, and N. A. Clay. 2018. Bluestain fungi (Ascomycota: Ophiostomatoid) increases ant diversity and mediates decomposer communities in coarse woody debris. Ecological Society of America Meeting, New Orleans, LA.
21. Shepherd, W., B. Sullivan, J. Nowak, S. Clarke, P. Merten, J. Meeker, B. Parpart, B. Bruce, A. Rachal, R. Billings, W. Upton, **J. J. Riggins**. 2018. Evaluation of southern pine beetle behavioral and antennal responses to components of three host odor lures. Southern Forest Insect Work Conference, San Antonio, Texas, July 17-20<sup>th</sup>, 2018.
22. †Thomason, J., S. Clarke, A. Smith, R. Billings, D. Cox, D. Grosman, **J. J. Riggins**. 2018. Can lethal trap trees help maintain low southern pine beetle population densities? Southern Forest Insect Work Conference, San Antonio, Texas, July 17-20<sup>th</sup>, 2018.
23. †Dearing, N. A., N. A. Clay, N. Krishnan, and **J. J. Riggins**. 2017. Physiological effects on native subterranean termites and their gut biota after feeding on wood infected with Ophiostomatoid fungi. Southern Forest Insect Work Conference, Melbourne, FL, July 25<sup>th</sup>-28<sup>th</sup>, 2017.
24. §Hughes M. A., **J. J. Riggins**, F. Koch, A. I. Cognato, C. Anderson, T. J. Dreaden, J. P. Formby, R. C. Ploetz, and J. A. Smith. 2016. The laurel wilt story: Introduction and impact of an exotic vector (*Xyleborus glabratus*) and pathogen (*Raffaelea lauricola*). American Phytopathological Society Annual Meeting, Tampa, FL, July 30-August 3, 2016.
25. §†Dearing, N., J. P. Formby, A. Chupp, H. Bares, R. Brown, **J.J. Riggins**. 2016. Impacts of Laurel Wilt Disease on Insect Herbivores of North American Lauraceae. North American Forest Insect Work Conference, Washington, D.C. May 30-June 3, 2016
26. §†Thorn, M. J., **J. J. Riggins**, R. L. Brown, J. Gordon. 2016. A Burning Question: User Attitudes and Firewood as a Vector of Non-Native Wood Borers in Mississippi Parks. North American Forest Insect Work Conference, Washington, D. C., May 30- June 3, 2016.
27. §†Thomason, J. W., **J.J. Riggins**, S. Clarke, and J. Meeker. 2016. Bloom or Bust? An Examination of the Southern Pine Beetle (*Dendroctonus frontalis*) Spring Trap Deployment Dates. North American Forest Insect Work Conference. Washington, DC, May 30-June 3, 2016.
28. §†Bares, H. M., **J. J. Riggins**, R. L. Brown, N. A. Clay, R. M. Verble-Pearson. 2016. Exotic ambrosia beetle (Coleoptera: Curculionidae: Scolytinae) establishment factors and hosts for newly detected species in southern Alabama. North American Forest Insect Work Conference. Washington D.C., May 30-June 3, 2016.
29. §Hughes M., T. Dreaden, A. Cognato, **J. J. Riggins**, F. Koch, and J. Smith. 2016. Unprecedented cascading effects of a clonal symbiosis. Interagency Research Forum on Invasive Species. Annapolis, MD. January 12-15, 2016.
30. §Hartshorn, J. A., L. J. Haavik, J. D. Allison, J. R. Meeker, W. Johnson, L. D. Galligan, K. D. Chase, J. J. Turgeon, **J. J. Riggins**, and F. M. Stephen. 2016. Emergence of adult female *Sirex nigricornis* F. and *S. noctilio* F. (Hymenoptera: Siricidae) coincides with a decrease in daily minimum and maximum temperature. USDA Interagency Forum on Invasive Species. Annapolis, MD. January 2016.
31. †Gamblin, L., N. A. Clay, **J. J. Riggins**, and C. S. Siegert. 2015. Soil respiration and invertebrate populations. Undergraduate Research Symposium, Mississippi State University. April 23, 2015.

32. <sup>†</sup>Garrigues, L., C. S. Siegert, **J. J. Riggins**, and N. A. Clay. 2015. The Influence of Canopy-Mediated Hydrologic Fluxes & Understory Microclimate on Soil Properties. Undergraduate Research Symposium, Mississippi State University. April 23, 2015.
33. <sup>†</sup>Formby, J. P., K. Oten, and **J. J. Riggins**. 2015. Invasive disease complex drives the decline of an endemic swallowtail butterfly. 26<sup>th</sup> USDA Interagency Research Forum on Invasive Species. Annapolis, MD, January 13-16, 2015.
34. <sup>†</sup>Formby, J. P., K. Oten, and **J. J. Riggins**. 2014. Cascade effect of laurel wilt disease on the palamedes swallowtail butterfly in the southeastern United States. USDA Interagency Research Forum on Invasive Species, Annapolis, MD, January 7-10, 2014.
35. <sup>§</sup>Cross, D. C., **J. J. Riggins**, N. Krishnan, and M. A. Caprio. 2013. An estimation of cold hardiness of the tawny crazy ant, *Nylanderia fulva* (Hymenoptera: Formicidae). Entomological Society of America, Austin, TX, November 10-13, 2013.
36. **Riggins, J. J.**, A. I. Cognato, J. P. Formby, and R. L. Chapin. 2013. Phylogeography of Redbay Ambrosia Beetle in North America. USDA Interagency Research Forum on Invasive Species. Annapolis, MD. January 8-11, 2013.
37. <sup>†</sup>Formby, J. P., N. Krishnan, and **J. J. Riggins**. 2013. Supercooling in the redbay ambrosia beetle (*Xyleborus glabratus*)- Preliminary implications for invasion potential in North America. USDA Interagency Research Forum on Invasive Species. Annapolis, MD. January 8-11, 2013.
38. <sup>†</sup>Blount, N.A., N.S. Little, A.J. Londo, M.D. Ulyshen, and **J.J. Riggins**. 2012. Native and Formosan subterranean termite utilization of living trees in forested settings. Southern Forest Insect Work Conference, Charlottesville, VA. July 24-27, 2012.
39. <sup>§</sup>Gandhi, K. J. K., J. E. Dinkins, **J. J. Riggins**, L. Schimleck, B. Sullivan, and J. F. Dean. 2011. Behavioral responses of the European woodwasp, *Sirex noctilio*, on southeastern pine species. Annual Meeting of the Entomological Society of America, Reno, NV. November 12-15, 2011.
40. <sup>†</sup>Chase, K.D, K.J.K. Gandhi, and **J.J. Riggins**. 2011. Native siricid (Hymenoptera: Siricidae) abundance in various forest stand types. Mississippi Entomological Association Annual Meeting. Starkville, MS. October 24-25. 2011
41. <sup>§†</sup>Little, N. S., **J. J. Riggins**, T. P. Schultz, and A. J. Londo. 2011. Subterranean termite feeding response to wood containing bark beetle pheromones and blue-stain fungi. 3rd International Symposium on *C. formosanus*, New Orleans, LA. May 15-17, 2011.
42. <sup>§†</sup>Blount, N. A., N. S. Little, A. J. Londo, M. D. Ulyshen, and **J. J. Riggins**. 2011. Infestations of Formosan subterranean termites in forested settings and the potential impact on native termites. 3rd International Symposium on *Coptotermes formosanus*, New Orleans, LA. May 15-17, 2011.
43. <sup>§†</sup>Little, N. S., **J. J. Riggins**, T. P. Schultz, and A. J. Londo. 2011. Susceptibility of lumber cut from beetle-killed southern pine trees to subterranean termite attack. American Wood Protection Association Annual Meeting, Fort Lauderdale, FL. May 15-17, 2011. **(1st Place Ph.D. Student Poster Award and Scholarship)**
44. <sup>§†</sup>Campbell, R. S., A. J. Londo, S. Clarke, and **J. J. Riggins**. 2011. Are SPB utilizing *Ips* infested trees during intermediate and latent population phases? North American Forest Insect Work Conference, Portland, OR. May 9-12, 2011.
45. <sup>§†</sup>Formby, J. P., K. C. Allen, and **J. J. Riggins**. 2011. Modeling the potential North American range of redbay ambrosia beetle (*Xyleborus glabratus*) based on cold temperature tolerance. North American Forest Insect Work Conference, Portland, OR. May 9-12, 2011.
46. <sup>§†</sup>Blount, N. A., N. S. Little, A. J. Londo, M. D. Ulyshen, and **J. J. Riggins**. 2011. Impacts of Formosan subterranean termites on forest ecology. North American Forest Insect Work Conference, Portland, OR. May 9-12, 2011.
47. <sup>§†</sup>Chase, K. D., Dinkins, J. E., Gandhi, K. J. K., and **J. J. Riggins**. 2011. Building a hazard map of *Sirex noctilio* Fabricius in the southeastern United States using host preference data. North American Forest Insect Work Conference, Portland, OR. May 9-12, 2011.

48. <sup>§†</sup>Little, N. S., **J. J. Riggins**, T. P. Schultz, and A. J. Londo. 2011. Feeding response of native subterranean termites to wood inoculated with bark beetle pheromones and blue-stained wood. North American Forest Insect Work Conference, Portland, OR. May 9-12, 2011.
49. <sup>§†</sup>Dinkins, J., **J. J. Riggins**, L. Schimleck, B. Sullivan, J. F. Dean, and K. J. K. Gandhi. 2011. Using resin and wood properties to provide a model explaining behavioral responses of *Sirex noctilio* to southeastern pine species. North American Forest Insect Work Conference, Portland, OR. May 9-12, 2011.
50. <sup>†</sup>Little, N. S., **J. J. Riggins**, T. P. Schultz, A. J. Londo, and M. D. Ulyshen. 2011. Evidence for interactions between native subterranean termites and bark beetles in the southeastern US. Southeastern Branch meeting of the Entomological Society of America, San Juan, Puerto Rico. March 19-22, 2011.
51. **Riggins, J. J.** 2011. Redbay ambrosia beetle and laurel wilt disease in Mississippi and Alabama. Southwide Forest Disease Workshop, Quincy, FL. February 7-10. 2011.
52. <sup>§</sup>Gandhi, K. J. K., J. E. Dinkins, **J. J. Riggins**, L. Schimleck, B. Sullivan, J. F. Dean, K. E. Zylstra, and V. Mastro. 2011. Colonization preferences of the European woodwasp, *Sirex noctilio*, on southeastern pine species. USDA Interagency Forum on Invasive Species, Annapolis, MD. Jan. 11-14, 2011. (Presented by J. J. Riggins).
53. <sup>†</sup>Little N. S., **J. J. Riggins**, and A. J. Londo. 2010. Behavioral responses of native subterranean termites to various bark beetle pheromone and fungal associates. Mississippi Entomological Association Annual Meeting, Starkville, MS. October 25-26, 2010.
54. <sup>†</sup>Little, N. S., **J. J. Riggins**, and A. J. Londo. 2010. Bark beetle and subterranean termite interactions: implications for forest utilization. Southern Forest Insect Work Conference, Wilmington, NC. July 20-23.
55. <sup>†</sup>Campbell, R. S., **J. J. Riggins**, D. Cross, M. Caprio, A. J. Londo, J. Allison, and E. Schoeller. 2010. Preliminary PCR analysis of gut contents in *Thanasimus dubius* (Cleridae). Poster Presentation. Southern Forest Insect Work Conference. July 20-23, 2010.
56. <sup>§</sup>**Riggins, J. J.**, M. Hughes, J. A. Smith, and R. Chapin. 2010. Discovery of redbay ambrosia beetle and laurel wilt disease in Mississippi. USDA Forest Service Forest Health Monitoring Workgroup Meeting. January 26-28, 2010.
57. <sup>§</sup>**Riggins, J. J.**, M. Hughes, J. A. Smith, and R. Chapin. 2010. Disjunct population of redbay ambrosia beetle and laurel wilt disease discovered in Mississippi. USDA Interagency Research Forum on Invasive Species, Annapolis, MD. January 12-15, 2010.
58. <sup>†</sup>Dinkins, J., **J. J. Riggins**, V. C. Mastro, K. E. Zylstra, and K. J. K. Gandhi. 2010. Behavioral and antennal responses of the European woodwasp (*Sirex noctilio*) to southern pine species. Southeastern Branch meeting of the Entomological Society of America, Atlanta, GA. 7-10 March 2010.
59. <sup>§†</sup>Dinkins, J., **J. J. Riggins**, V. C. Mastro, K. E. Zylstra, and K. J. K. Gandhi. 2010. Behavioral responses of the European woodwasp to southern pine species. USDA Interagency Forum on Invasive Species, Annapolis, MD. 12-15 January, 2010.
60. <sup>§</sup>Gandhi, K. J. K., J. Dinkins, **J. J. Riggins**, K. Zylstra, and V. C. Mastro. 2010. Behavioral responses of the European woodwasp, *Sirex noctilio*, to southern pine species. Annual Meeting of the Entomological Society of America, San Diego, CA. 12-15 December, 2010.
61. Gandhi, K. J. K., and **J. J. Riggins**. 2009. Responses of the European woodwasp to southern pine species. Southern Forest Insect Work Conference, Gulfport, MS. July 28-31, 2009.
62. <sup>†</sup>Floyd, J. D., A. J. Londo, **J. J. Riggins**, and T. E. Nebeker. 2009. Seasonal thinning effects on *Ips* beetle use of slash in Mississippi loblolly pine stands. Southern Forest Insect Work Conference, Gulfport, MS. July 28-31, 2009.
63. <sup>§</sup>**Riggins, J. J.**, and F. M. Stephen. 2006. Assessing forest health at the speed of light: applying remote sensing technology to a destructive forest insect. Annual Meeting of the Entomological Society of America, Indianapolis, IN.
64. Haavik, L., **J. J. Riggins**, R. Verble and F. M. Stephen. 2006. Red oak borer research: A synopsis of current insights and future research interests. Arkansas Entomological Society, Fayetteville, AR.

65. <sup>s</sup>**Riggins, J. J.**, and F. M. Stephen. 2006. Missing in action: The abrupt demise of a red oak borer outbreak in the Arkansas Ozarks. North American Forest Insect Work Conference, Asheville, NC.
66. **Riggins, J. J.**, and F. M. Stephen. 2006. Unsolved mysteries: Investigating the abrupt rise and fall of red oak borer in the Arkansas Ozarks. Southeastern Branch meeting of the Entomological Society of America, Wilmington, NC.
67. <sup>s</sup>**Riggins, J. J.**, and F. M. Stephen. 2005. A splitting headache: red oak borer (Coleoptera: Cerambycidae) population estimation in the Ozark National Forest, Arkansas, U.S.A. Annual Meeting of the Entomological Society of America, Fort Lauderdale, FL.
68. **Riggins, J. J.**, C. A. Davis, K. A. Skinner and W. W. Hoback. 2004. Evaluation of wet meadow restoration using soil invertebrate biodiversity. North Central Branch meeting of the Entomological Society of America, Kansas City, MO.
69. **Riggins, J. J.**, and W. W. Hoback. 2004. Monitoring soil invertebrates as bioindicators of wet meadow restoration success. Central States Entomological Society Annual Meeting, Lincoln, Nebraska.
70. Joy, A. L., J. C. Bedick, **J. J. Riggins**, J. Hamik, B. Sass and W. W. Hoback. 2004. Trap bias in burying beetle sampling protocols. North Central Branch meeting of the Entomological Society of America, Kansas City, MO.
71. **Riggins, J. J.**, C. A. Davis and W. W. Hoback. 2003. Soil invertebrates as bioindicators of the effectiveness of wet meadow restoration. North Central Branch meeting of the Entomological Society of America, Madison, WI.
72. **Riggins, J. J.**, C. A. Davis and W. W. Hoback. 2003. Soil invertebrates as bioindicators of the effectiveness of wet meadow restoration. UNK Student research day.
73. **Riggins, J. J.**, and W. W. Hoback. 2002. Dark feeding by *Cicindela fulgida* (Coleoptera: Cicindelidae) reveals use of alternative senses by a visual predator. North Central Branch meeting of the Entomological Society of America, East Lansing, MI.
74. **Riggins, J. J.**, and W. W. Hoback. 2002. A visual predator eats in the dark: evidence of the use of alternative senses in a tiger beetle. UNK Student Research Day.

#### IV. GRANTS AND AWARDS

(Riggins Lab Portion)

1. **Riggins, J. J.** (2023). United Against Brown Spot Needle Blight: Collaborative Strategies for Protecting Southeastern Loblolly Pine Forests. USDA Forest Service, Southern Research Station. \$398,948 (\$398,948)
2. **Riggins, J. J.**, Ward, S. F., & Basu, P. C. (2022). Insect biodiversity responses to silvicultural treatments in longleaf pine. USDA Forest Service, Southern Research Station. \$95,000 (\$95,000)
3. **Riggins, J. J.** (2020). Bark beetles, bluestain fungi, and termites: ecological interactions leading to green strategies for wood protection and changing our understanding of the terrestrial carbon cycle. Special Research Initiative (SRI), Mississippi State University. \$35,842 (\$35,842)
4. **Riggins, J. J.** (2019). The sound of silence: using bioacoustics to characterize biodiversity in dead wood following bark beetle epidemics. CALS/MAFES Undergraduate Research Scholars Program (URSP). \$6,000 (\$6,000)
5. **Riggins, J. J.** (2019). Bark beetles, bluestain fungi, and termites: ecological interactions leading to green strategies for wood protection and changing our understanding of the terrestrial carbon cycle. Special Research Initiative (SRI), Mississippi State University. \$49,800 (\$49,800)
6. **Riggins, J. J.** (2018). Survey for exotic wood and bark boring beetles near industrial sites in Mississippi. USDA Farm Bill CAPS. \$10,000 (\$10,000)
7. **Riggins, J. J.** (2018). Bluestain Fungi and Termites: Implications for commercialization of new termite control technologies, and investigating their roles in global carbon cycles. Special Research Initiative (SRI), Mississippi State University. \$50,000 (\$50,000)



8. **Riggins, J. J.** (2018). Optimizing forest management practices to minimize economic and environmental impacts of *Sirex noctilio*. USDA Forest Service, Office of International Programs. \$1,000,000 (\$357,161)
9. **Riggins, J. J.** (2017). Incorporating Emetectin Benzoate into a Strategy for Maintaining Low Populations of Southern Pine Beetle. USDA Forest Service Pesticide Impact Assessment Program. \$32,000 (\$32,000)
10. **Riggins, J. J.**, Clay, N. A., Siegert, C. M., & Tang, J. D. (2016). EAGER: Quantifying the effects of a fungus-mediated termite and bark beetle interaction on wood decomposition. National Science Foundation Division of Environmental Biology EAGER. \$227,494 (\$127,996)
11. **Riggins, J. J.** (2016). Mississippi Exotic Forest Pest Firewood Survey and Outreach. USDA Farm Bill Suggestion. \$26,529 (\$26,529)
12. **Riggins, J. J.** (2016). Bluestain Fungi and Termites: Implications for commercialization of new termite control technologies, and investigating their roles in global carbon cycles. Special Research Initiative (SRI), Mississippi State University. \$50,000 (\$50,000)
13. Billings, R. (2016). Improving the Prediction System for the Southern Pine Beetle. USDA Forest Service Special Technology Development Program, Proposal # R8-2016-01. \$50,000 (Collaborator: \$5,000)
14. **Riggins, J. J.**, Clay, N. A., & Brown, R. (2015). Host range and invasive potential of recently detected non-native ambrosia beetles. USDA Forest Service Forest Health Protection/Mississippi Forestry Commission Cooperative Agreement. \$31,000 (\$31,000)
15. **Riggins, J. J.**, Clarke, S., & Meeker, J. R. (2015). Refinement of the southern pine beetle (SPB) survey and prediction system. USDA Forest Service Forest Health Protection Southern Pine Beetle Prevention Program/ Mississippi Forestry Commission Cooperative Agreement. \$25,000 (\$25,000)
16. **Riggins, J. J.**, Siegert, C., Clay, N., & Tang, J. (2015). Department of Biochemistry, Molecular Biology, Entomology, & Plant Pathology, Mississippi State University. High-throughput fungal sequencing and biogeochemistry to describe trophic cascade during blue stain-catalyzed decomposition of bark beetle killed wood. \$2,000 (\$2,000)
17. **Riggins, J. J.**, Siegert, C., Clay, N., & Tang, J. (2015). Institute for Genomics, Biocomputing & Biotechnology, Mississippi State University. High-throughput fungal sequencing and biogeochemistry to describe trophic cascade during blue stain-catalyzed decomposition of bark beetle killed wood. \$5,000 (\$5,000)
18. **Riggins, J. J.** & Clay, N. A. (2015). Commercialization of novel subterranean termite feeding stimulants from blue-stained bark beetle killed trees II. Special Research Initiative (SRI), Mississippi State University. \$50,000 (\$50,000)
19. **Riggins, J. J.** & Clay, N. A. (2015). Arthropod and microbial control of forest decomposition processes. CALS/MAFES Undergraduate Research Program. \$5,000 (\$5,000)
20. Siegert, C., **Riggins, J. J.**, & Renninger, H. (2015). Cross-College Research Award, Office of Research and Economic Development, Mississippi State University. Towards a better understanding of decomposition processes in southern forests as influenced by complex interactions between environmental and biological factors. \$2,000 (Co-PI: \$0)
21. **Riggins, J. J.** (2014). How insect-fungus interactions mediate nutrient dynamics, biodiversity, and carbon cycling in forest ecosystems. CALS/MAFES Undergraduate Research Program. \$5,000 (\$5,000)
22. **Riggins, J. J.** (2014). Commercialization of novel subterranean termite feeding stimulants from blue-stained bark beetle killed trees. Special Research Initiative (SRI), Mississippi State University. \$50,000 (\$50,000)
23. **Riggins, J. J.**, Clarke, S., & Stephen, F. M. (2014). Degree-day optimization of spring southern pine beetle trapping in the southeastern U.S.A. USDA Forest Service Forest Health Protection Southern Pine Beetle Prevention Program/ Mississippi Forestry Commission Cooperative Agreement. \$10,000 (\$10,000)
24. **Riggins, J. J.**, Formby, J. P., & Krishnan, N. (2014). Biology of bark and ambrosia beetle pests of Mississippi forests. USDA Forest Service Forest Health Protection/ Mississippi Forestry Commission Cooperative Agreement. \$30,000 (\$30,000)

25. **Riggins, J. J.**, Duerr, D., Koch, F. H., Chapin, R., Formby, J. P., & Krishnan, N. (2013). Spatial Modeling of Redbay Ambrosia Beetle Invasion Potential in North America. USDA Forest Service Forest Health Protection/ Mississippi Forestry Commission Cooperative Agreement. \$30,000 (\$30,000)
26. **Riggins, J. J.** (2013). Mississippi State University BCH-EPP Departmental Graduate Student Research Assistantship. \$16,000 (\$16,000)
27. **Riggins, J. J.** (2013). Feeding responses of *Heterotermes aureus* and *Reticulitermes hesperus* to bluestained southern yellow pine sapwood. Dow Agrosiences MOA. \$15,000 (\$15,000)
28. Londo, A. J., Chapin, R., **Riggins, J. J.**, Kushla, J., Henderson, J., & Dicke, S. (2012-2014). A comprehensive southern pine beetle prevention program for Mississippi. \$325,000 (Co-PI: \$44,496)
29. **Riggins, J. J.** (2012). Mississippi State University Office of the Graduate School Bridge Fund Graduate Student Assistantship. \$18,000 (\$18,000)
30. **Riggins, J. J.** (2012). Mississippi State University BCH-EPP Departmental Graduate Student Research Assistantship. \$14,000 (\$14,000)
31. **Riggins, J. J.** (2012). MAFES internal small equipment grant. \$9,500 (\$9,500)
32. **Riggins, J. J.**, Little, N. S., Blount, N. A., Lax, A. R., & Ulyshen, M. D. (2011). Ecological impacts of Formosan subterranean termites in forests of the southeastern U.S.A. U. S. Forest Service, Southern Research Station Cooperative Agreement. \$21,124 (\$21,124)
33. **Riggins, J. J.** (2011). MAFES internal small equipment grant. \$25,000 (\$25,000)
34. Londo, A. J., Chapin, R., **Riggins, J. J.**, Kushla, J., Henderson, J., & Dicke, S. (2010-2013). A comprehensive southern pine beetle prevention program for Mississippi. \$750,000 (Co-PI: \$101,418)
35. **Riggins, J. J.** (2010). Origin and delineation of redbay ambrosia beetle and laurel wilt disease in southeast Mississippi. USDA Forest Service Forest Health Protection Cooperative Agreement via the Mississippi Forestry Commission. \$23,040 (\$23,040)
36. Londo, A. J., Chapin, R., **Riggins, J. J.**, Kushla, J., Henderson, J., & Dicke, S. (2010-2011). A comprehensive southern pine beetle prevention program for Mississippi (ARRA Fund). \$897,000 (\$285,882)
37. **Riggins, J. J.**, & Chapin, R. (2009-2012). Red bay ambrosia beetle and laurel wilt disease confirmation in Mississippi; identifying the means of introduction, extent and slowing the spread in Mississippi, southwest Alabama and southeast Louisiana. U.S.D.A. Forest Service, Forest Health Protection Evaluation and Monitoring Competitive Grants Program. \$104,530 (\$104,530)
38. Gandhi, K., & **Riggins, J. J.** (2009-2012). Development of host preference-risk assessment maps for Eurasian woodwasp (*Sirex noctilio*) on southern conifer species. USDA Forest Service Forest Health Protection Special Technology Development Program. \$161,216 (\$75,966)
39. **Riggins, J. J.** & Clarke, S. (2009-2012). Southern pine beetle distribution in *Ips* infested loblolly pines during non-outbreak conditions. USDA Forest Service Southern Research Station Cooperative Agreement. \$76,246 (\$76,246)
40. Londo, A. J., & **Riggins, J. J.** (2009). The Mississippi emerald ash borer (EAB) prevention program. Natural Resources Extension Enhancement Project Proposal. \$5,000 (\$0)
41. **Riggins, J. J.** (2009-2011). Delineation of redbay ambrosia beetle and laurel wilt infestations in southeast Mississippi. Bureau of Plant Industry, Mississippi Department of Agriculture and Commerce. \$6,000 (\$6,000)
42. **Riggins, J. J.** (2009). Survey of redbay tree mortality in southeast Mississippi. Mississippi Forestry Commission. \$5,950 (\$5,950)
43. Londo, A. J., Romyedy, R., **Riggins, J. J.**, Kushla, J., & Henderson, J. (2009). A comprehensive southern pine beetle prevention program for Mississippi. Mississippi Forestry Commission and USDA Forest Service-Forest Health Protection, Southern Region. \$600,000 (\$299,108)

44. Londo, A. J., Romyed, R., **Riggins, J. J.**, Kushla, J., & Henderson, J. (2008). A comprehensive southern pine beetle prevention program for Mississippi. Mississippi Forestry Commission and USDA Forest Service-Forest Health Protection, Southern Region. \$643,663 (\$309,169)
45. **Riggins, J. J.**, Brust, M. L., & Hoback, W. W. (2004). A survey of Odonata in several unique aquatic habitats of Nebraska. Nebraska Game and Parks Commission, Natural Heritage Division. \$17,000 (\$17,000)
46. **Riggins, J. J.** (2003). Evaluating wet meadow restoration success by comparing native and exotic isopods and earthworms. Center for Great Plains Studies, Graduate Research Grant-In-Aid. \$225 (\$225)
47. **Riggins, J. J.** (2002). Investigating isopods to determine the effectiveness of wet-meadow restorations in the central Platte River Valley. Nature Conservancy, J. E. Weaver Competitive Grants Program. \$1,000 (\$1,000)

## **V. TEACHING AND MENTORING**

### **A. Courses Developed and/or Taught at Mississippi State University (MSU) (2008-Present)**

- **EPP 3124: Forest Pest Management** (Fall Semesters, 2008-Present)
  - Designed and implemented as a new 4-credit hour course upon arrival at MSU in 2008.
  - Taught annually each Fall (except Fall 2022 due to sabbatical).
  - Course enrollment has grown from approximately 25 to nearly 70 students.
  - Cumulatively taught over 600 students.

**Riggins EPP3124 Mean Teaching Evaluations By Year**

Year (20xx)	8	9	10	11	12	13	14	15	16	17	18	19	20	*21	*23	*24
*Enrollment	36	25	31	38	34	33	39	46	41	43	73	60	35	48	50	39
*Avg. Evaluation	4.2	3.9	4.1	4.6	4.7	4.4	4.4	4.7	4.5	3.9	3.7	4.0	4.1	3.5	3.4	3.5

\*University Course Evaluations changed from 5 point scale to 4

- **EPP 8881: Entomology and Plant Pathology Colloquium**
  - Developed this course in 2022.
  - Serves as a core course for a new degree program under development within the department.
- **EPP 7000: Directed Individual Study**
  - Taught multiple iterations, providing tailored instruction to individual students.

### **B. Mentoring Activities (MSU, 2008-Present)**

- **Post-Doctoral Associates Supervised: 2**
  - Dr. Natalie Clay. 2014-15
  - Dr. Davide Nardi. 2022-22
- **Graduate Student Advising (Primary Advisor): 12 (M.S. and Ph.D. students)**
  - Tianze (Jack) Xue, Ph.D. 2024-2025
  - Hannah Bares, M.S. 2015-18
  - John Thomason, M.S. 2022-24
  - John Formby, Ph.D. 2011-16
  - Kendra Wagner, Ph.D. 2018-22
  - Nathan Little, Ph.D. 2010-13
  - Kristy McAndrew, M.S. 2018-21
  - Kevin Chase, M.S. 2011-13
  - Natalie Dearing, M.S. 2016-21
  - Nathan Blount, M.S. 2010-12
  - Matt Thorn, M.S. 2015-17
  - Ryann Campbell, M.S. 2009-11

- **Graduate Student Committee Member:** 11 (M.S. and Ph.D. students across 4 different universities)
  - Damilola Taiwo, M.S. Forestry, MSU. 2022-24
  - Erika Wright, M.S. Entomology, MSU. 2021-23
  - Kimberly Pace, M.S. Forestry, MSU. 2021-23
  - Nicholas Benedetto, M.S. Biology, Louisiana Tech University. 2018-20
  - Terry Schieffer, M.S. Entomology, MSU. 2020-22
  - Casey Morin, M.S. Biology, Louisiana Tech U. 2016-18
  - Cody Bailey, M.S. Forestry, MSU. 2012-14
  - James Floyd, M.S. Forestry, MSU. 2008-13
  - Matthew Meyerpeter, M.S. Forestry, Auburn U. 2011-12
  - Jamie Dinkins, M.S. Forestry, U. of Georgia. 2009-11
  - Nathan Traywick, M.S. Forestry, MSU. 2008-10
- **Undergraduate Researcher Mentoring:** Mentored more than 20 undergraduate students.  
 Taylor Brown, Kenedy Brooks, Cole Sellers, Riley Sims, Madeline Grantham, Patrick Ewing, Dutton Day, Jessica Tomasi, Sarah Steen, Vaughn Hamill, Jacob Smith, Ian Hurst, Madeline Burton, Lauren Gamblin, Payton Jackson, Jenny LeBlanc, Marely Hannah, Jennifer Reed, Jared Seals, Mike Campbell
- **Academic Team Coaching:**
  - Coach, MSU Entomology Linnaean Games Team (2009, 2013–14). *2nd at National Competition in 2013.*

### C. Teaching Innovation

- **Peer-Reviewed Pedagogical Publications (also listed in Publications):**
  - Mech, A., Rosenberger, D., Fanning, P., **Riggins, J. J.**, Aukema, B., & Hartshorn, J. (2022). There's an app for that: teaching entomology in the online age. *Natural Sciences Education*, 51, e20081.
  - †Smith, J. A., Coyle, D. R., Thomason, J. W., Matthews, T., & **Riggins, J. J.** (2021). Geocaching: A New Instructional Tool for Natural Resources Extension and Outreach. *Journal of Extension*, 59, Article 16.
- **Pedagogical Presentations (also listed in Presentations):**
  - †Thomason, J. W., T. Matthews, D. Coyle, J. Smith, **Riggins, J. J.** (2020). Cache Me Outside: Geocaching as a Forest Health Outreach Tool. *Southern Appalachian Forest Entomology and Pathology Seminar*, Crossnore, NC.
  - Coulson, R. N., K. J.K. Gandhi, and **J. J. Riggins.** (2016). Teaching forest protection – What is relevant: Conclusions from the SFIWC workshop. *North American Forest Insect Work Conference*, Washington, D.C.
- **Teaching Symposia Organization (also listed in Service section):**
  - Co-Organizer: “Challenges, Paradigms, and Novel Approaches to the Forest Health Curriculum”. *North American Forest Insect Work Conference*, Washington, D.C. (2016).
  - Co-Organizer: “Teaching Forest Protection: What’s Relevant Today?”. *Southern Forest Insect Work Conference*, Fayetteville, AR (2015).
- **Educational Resource Development:**
  - **Riggins, J. J.**, & Londo, A. J. (2014). Entomology. In J. E. Henderson & R. C. Parker (Eds.), *Study Guide for the Mississippi Board of Registration for Foresters Examination* (pp. 1-91). FWRC Research Bulletin FO448. MSU.
  - Londo, A. J., **J. J. Riggins**, K. Brasher, and M. Measells. 2011. Mississippi State University Forest Health Website ([www.foresthealth.msstate.edu](http://www.foresthealth.msstate.edu)).
  - **Riggins, J. J.** 2008-present. Founding Admin of “Forest Entomology” Facebook Page. >1000 members. <https://www.facebook.com/Forest.Entomology?fref=ts>
  - **Riggins, J. J.** 2006-present. Founding Admin for “The Entomology Group” on Facebook. >450,000 members worldwide. <https://www.facebook.com/groups/TheEntomologyGroup/>

- Hoback, W. W., and J. J. Riggins. 2001. Tiger beetles of the United States. Jamestown, ND: Northern Prairie Wildlife Research Center Home Page. <http://www.npwrc.usgs.gov/resource/distr/insects/tigb/tigbusa.htm> (Version 12DEC2003).

- **Curriculum Leadership (Also listed in Service):**

- Member, Departmental Curriculum Committee, MSU (2021–Present).
- Member, University Courses and Curricula Committee (CALS Representative), MSU (2013–2016).

- **Professional Development in Teaching (Also listed in Professional Development):**

- Certified Online Instructor, MSU Center for Teaching and Learning (CTL) (2020).
- Completed MSU CTL Workshops: Teaching a Hybrid Course (2020); Engaging Students in Your Online Course (2020).
- Completed MSU Teaching Portfolio Workshop (2014).

- **Pedagogical Practices:**

- Actively implements best teaching practices, including outcomes-based assignment alignment and reflective practice based on student evaluations (as noted for EPP 3124).

#### **D. Guest Lectureships (Also listed in presentations)**

- **Domestic Guest Lectures:**

- *EPP 6263: Principles of Insect Pest Management (MSU)*: Delivered lecture "IPM of Forest Insect Pests" at the request of Dr. Fred Musser. (Spring Semesters: 2009, 2010, 2011, 2012, 2018, 2023).

- **International Guest Lectures & Teaching:**

- *Universidad Nacional de Ciencias Forestales (UNACIFOR), Siguatepeque, Honduras*: Delivered lectures/seminars on forest disturbances, ecology, bark beetles, decomposers, nutrient cycles, and links to the carbon cycle to approximately 700 forestry students and faculty (June 2017, June 2018, June 2019).
- *University of Padua, Italy*: Invited Seminar Speaker, teaching on non-native forest health threats and impacts of forest insects/fungal symbionts (Oct/Nov 2022).
- *University of Freiburg, Germany*: Invited Seminar Speaker, teaching on predicting impacts of invasive forest insects and complex interactions shaping forest ecosystems (Nov 2022).
- *Visiting Professor Sabbatical (University of Padua, Italy, 2022)*: Engaged in academic activities including teaching and research collaborations.

#### **E. Previous Teaching Experience (University of Nebraska, Kearney - UNK)**

- **Co-Developer and Teaching Assistant**: Directed Readings in Insect Evolution (M.S. level) (2004).
- **Teaching Assistant**: Insect Biology Laboratory (Undergraduate level) (2003).

## **VI. SERVICE**

### **A. Service to the Profession**

- **Editorial Service**

- Associate Editor (Applied Forest Entomology and Pathology), Forest Science. Term: 2013–2019
- Editorial Board (Ecology), Southeastern Naturalist. Term: 2013–2019
- Associate Editor (Forest Entomology), Midsouth Entomologist. Term: 2011–2018

- Associate Editor (Entomology), Southern Journal of Applied Forestry. Term: 2010–2013

- **Peer Review**

- Ad-hoc Manuscript Reviewer for Scientific Journals: Agricultural and Forest Entomology, Alabama Academy of Science, Arthropod Interactions, Biological Invasions, Canadian Entomologist, Economic Entomology, Entomological News, Environmental Entomology, Florida Entomologist, Forest Ecology and Management, Forest Science, Forestry, Forests, Journal of Asia-Pacific Entomology, Journal of Insect Science, Journal of Integrated Pest Management, Nature Communications, Pest Management Science, Plant Disease, Remote Sensing, Southeastern Naturalist, Southern Journal of Applied Forestry, Torrey Botanical Society

- **Conference Organization & Leadership**

- Riggins, J. J. 2024. Program Co-Chair, East Texas Forest Entomology Seminar, Nacogdoches, TX.
- Riggins, J. J. 2016. Teaching Symposium Co-Organizer, “Challenges, Paradigms, and Novel Approaches to the Forest Health Curriculum”. North American Forest Insect Work Conference. Washington, D.C.
- Riggins, J. J. 2016. Sponsorship Committee Chair. North American Forest Insect Work Conference. Washington, D.C.
- Riggins, J. J. 2016. Organizing Committee Member. North American Forest Insect Work Conference. Washington, D.C.
- Riggins, J. J. 2015. Program Committee Member. Southeastern Branch Meeting of the Entomological Society of America. Biloxi, MS.
- Coulson, R. N. and J. J. Riggins. 2015. Program Co-Chair, Southern Forest Insect Work Conference. Fayetteville, AR.
- N. A. Clay, and J. J. Riggins. 2015. Symposium Co-organizer. Pests, Decomposition, and Nutrient Cycles in Forest Ecosystems. Southern Forest Insect Work Conference. Fayetteville, AR.
- Coulson, R. N. and J. J. Riggins. 2015. Symposium Co-organizer. Teaching Forest Protection: What’s Relevant Today? Southern Forest Insect Work Conference. Fayetteville, AR.
- Hartshorn, J. A., and J. J. Riggins. 2014. Symposium co-organizer. Interactions Between Forest Disturbance and Insects. Southern Forest Insect Work Conference. Charleston, SC.
- Koch, F. and J. J. Riggins. Symposium Co-Organizer/ Co-Moderator. Advances in Modeling Alien Forest Insect Invasions. Southern Forest Insect Work Conference. New Orleans, LA 2013.
- Riggins, J. J. Local arrangements Chair, Southern Forest Insect Work Conference. New Orleans, LA 2013.
- Riggins, J. J. and A. J. Londo. Symposium Moderator. Economics of Beetle Prevention/Thinning/Forest Health Activities. Southern Forest Insect Work Conference. New Orleans, LA 2013.
- Riggins, J. J. 2013. Forest Entomology Symposium Moderator. Annual meeting of the Entomological Society of America. Austin, TX, 2013.
- Riggins, J. J. Member, 2012 Southern Forest Insect Work Conference Program Committee, Charlottesville, VA, June, 2012.
- Riggins, J. J. 2015. Program Committee Member. Southeastern Branch of the Entomological Society of America. Biloxi, MS.
- Riggins, J. J. Local Arrangements Committee Co-Chair. Southern Forest Insect Work Conference. Gulfport, MS July 28–31, 2009.

- **Judge, Student Competitions:**

- Riggins, J. J. 2015. Graduate Student Presentation Competition. Southern Forest Insect Work Conference. Fayetteville, AR.

- Riggins, J. J. 2014. Graduate Student Poster Competition. Entomological Society of America. Portland, OR.
- Riggins, J. J. Judge, Graduate Student Poster Competition. North American Forest Insect Work Conference, Portland, OR, May 9–12, 2011.
- Riggins, J. J. Judge, M.S. Student Poster Competition, Southeastern Branch Meeting of the Entomological Society of America. San Juan, Puerto Rico, March 19–22, 2011.
- **Professional Society Leadership**
  - Riggins, J. J. President Elect/President, Mississippi Entomological Association. 2011–2012.
  - Riggins, J. J. Vice President, Mississippi Entomological Association. 2010–2011.
  - Riggins, J. J. Executive Committee Member (Counselor), Southern Forest Insect Work Conference. 2009–2013.
  - Riggins, J. J. Executive Committee Member (Director), Mississippi Entomological Association. 2009–2010.
  - Riggins, J. J. Mississippi Entomological Association Public Relations Committee Co-Chair. 2009.
  - Riggins, J. J. Mississippi Entomological Association Scholarship Committee. 2008.
- **External Evaluations & Panels**
  - Riggins, J. J. 2025. Phase I Evaluator research and professional activity of research-oriented institutes of the Czech Academy of Sciences for the period 2020–2024.
  - Riggins, J. J. 2020. Phase I Evaluator research and professional activity of research-oriented institutes of the Czech Academy of Sciences for the period 2015–2019.
- **Invited External Promotion & Tenure Reviewer**
  - Riggins, J. J. 2021. Dr. Elizabeth McCarty, Warnell School of Forestry, University of Georgia.
  - Riggins, J. J. 2019. Dr. Jeff Garnas, Department of Natural Resources and the Environment, University of New Hampshire.
  - Riggins, J. J. 2017. Dr. Robin Verble-Pearson, Department of Natural Resources Management, Texas Tech University.
  - Riggins, J. J. 2017. Pre-submission P&T packet review, Dr. Natraj Krishnan, BCH-EPP, Mississippi State University.
- **Committee Member, Awards**
  - 2015. Member, A. D. Hopkins Award Committee. Southern Forest Insect Work Conference. Fayetteville, AR.
  - 2013. Member, Stan Beck Fellowship judging panel. Entomological Society of America meeting, Austin, TX.
  - 2011. Member, Conference R. F. Anderson Outstanding Graduate Student Award Selection Committee. North American Forest Insect Work Conference. Portland, OR.
  - 2009. Member, A. D. Hopkins Award Committee. Southern Forest Insect Work Conference. Gulfport, MS.

## **B. University Service (Mississippi State University, 2008–Present)**

- **Leadership Roles**
  - 2025. Chair, ASPP Insect Ecologist Search Committee.
  - 2025. Chair, ASPP Departmental Promotion Committee.
  - 2024. Vice Chair, ASPP Promotion Committee.
  - 2012-2015. BCH-EPP representative and Vice Chair, Division of Agriculture, Forestry, and Veterinary Medicine Faculty Senate.

- **Committee Member Roles**

- Departmental Curriculum Committee. 2021–present.

- **Faculty Search Committees (Member)**

- 2019. Insect Ecology (1), Plant Pathologist (1), Insect Taxonomist (1), Insect Pathologist (1).
- 2011. Extension/ Research Apiculturist Faculty Search Committee, BCH-EPP.
- 2011. Insect Physiologist Search Committee, BCH-EPP.
- 2011. Formosan Termite Research Scientist Search Committee, CREC/Dept. Entomology and Plant Pathology.
- 2013-2016. College of Agriculture and Life Sciences (Representative). University Courses and Curricula Committee.
- 2009-2012. Department of Entomology and Plant Pathology Graduate Student Admission Committee. 2009–2012.
- Student Recruitment Committee, Department of Entomology and Plant Pathology. 2008–2012.

**C. University Service (Previous Institutions)**

- 2005-2007. Graduate Admissions Committee, Department of Entomology, University of Arkansas.
- 2003. University Fees Committee Graduate Student Representative, University of Nebraska at Kearney.

**D. Professional Memberships**

- **Current**

- International Union of Forestry Research Organizations
- USDA Inter-Agency Forum on Invasive Species
- North American Forest Work Insect Conference
- Southern Appalachian Forest Entomology and Pathology Seminar
- Southern Forest Health Work Conference
- East Texas Forest Entomology Seminar
- Florida Entomological Society

- **Past**

- Entomological Society of America
- American Society of Photogrammetry and Remote Sensing
- Southern Forest Pathology Work Conference
- Mississippi Entomological Association
- Society of American Foresters
- Gamma Sigma Delta

**E. Outreach and Community Service**

- Tour stop educator at Mississippi State University summer “Natural Resources Camp”. June 9, 2010.
- Tour stop educator at Mississippi State University summer “Bug Camp”. 2009, 2010, 2011, 2013, 2014.
- Borderless Host Family for two MSU foreign exchange students. 2008.



## **VII. AWARDS AND HONORS**

- 2019 Regions Bank Superior Faculty Award, International Activities. Mississippi State University Division of Agriculture, Forestry, and Veterinary Medicine
- 2012 National Family Forests Education Award, presented by the National Woodland Owners Association and the National Association of University Forest Resources Programs at the 2012 Society of American Foresters National Convention in Spokane, Washington, October 24, 2012.
- 2011 James E. Newsome Faculty State Pride Award for excelling in teaching, research and service at Mississippi State University.
- 2011 Southern Region Extension Forestry Specialists Awards for Excellence. Silver Award, website ([www.foresthealth.msstate.edu](http://www.foresthealth.msstate.edu))
- 2011 Londo, A. J., J. J. Riggins, K. Brasher, and M. Measells. Southern Region Extension Forestry Specialists Awards for Excellence. 2011. Silver Award, website ([www.foresthealth.msstate.edu](http://www.foresthealth.msstate.edu)).
- 2010 State Pride Award for excelling in teaching, research and service at Mississippi State University.

## **VIII. TRAINING AND PROFESSIONAL DEVELOPMENT**

- 2022 Visiting Professor, University of Padua, Padua Italy.
- 2020 MSU Center for Teaching and Learning Webinar: Engaging students in your online course.
- 2020 MSU Center for Teaching and Learning: Teaching a Hybrid Course Workshop.
- 2020 MSU Center for Teaching and Learning Class: Online Teaching 101 (Certified Online Instructor).
- 2016-17 Grant Writers Workshop. Mississippi State University.
- 2014 Responsible Conduct of Research Training. MSSTATE Office of Research Compliance and CITI Program.
- 2014 Teaching Portfolio Workshop. Mississippi State University.
- 2014 JMP Statistical Software Workshop. Mississippi State University.
- 2014 Grant Writers Workshop. Mississippi State University.
- 2014 Promotion and Tenure Workshop. Mississippi State University.
- 2010 Grant Writers Workshop. Mississippi State University.
- 2010 Tenure and Promotion Workshop, Mississippi State University.
- 2009 American Red Cross Certificate in Community CPR.
- 2009 American Red Cross Certificate in First Aid and Emergency Response.