

## Biographical Sketch

### Caleb J. Wilson

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### EDUCATION AND TRAINING

Ph.D. 2022     **Entomology**, North Carolina State University

M.S. 2018     **Biology**, Oakland University

B.S. 2016     **Environmental Sciences**, University of Iowa

### RESEARCH & PROFESSIONAL EXPERIENCE

8/23 – present   **Assistant Professor**, Entomology, University of Kentucky

7/22 – 8/23     **Research Associate**, Entomology, Michigan State University

1/19 – 7/22     **Graduate Research Assistant**, Entomology, North Carolina State University

1/17 – 12/18    **Graduate Teaching Assistant**, Biology, Oakland University

### SYNERGISTIC ACTIVITIES

- **Author** of 10 peer-reviewed manuscripts and 6 outreach articles geared towards arborists, foresters, entomologists, landscaping professionals, and the public.
- **Teaching** of two courses as instructor of record, 5 courses as a teaching assistant and 4 guest lectures.
- **Mentorship** as major professor for two graduate students, as an independent study mentor for two undergraduate researchers, and as a supervisor for one technician and three undergraduate assistants.
- **Peer reviews** for 10 academic journals, and grant proposals to the TREE Fund, and NSF.
- **Presentations** about insect conservation and pest management to academic audiences (12 presentations) and public audiences including master gardeners, foresters, and landscaping professionals (9 presentations).
- **Efficacy testing** of insecticides through grant-in-aid research experiments for government (IR4 Project) and industry (Syngenta, PBI Gordon, FMC corporation).
- **Membership and conference attendance** at professional societies (Entomological Society of America).

### PUBLICATIONS (refereed journals, last 4 years)

1. **Wilson, C.J.** and Frank, S.D. **2022**. Scale insects support natural enemies in both landscape trees and shrubs below them. *Environmental Entomology*. 51(6), pp.1094-1105. <https://doi.org/10.1093/ee/nvac081>
2. **Wilson, C.J.**, and Frank, S.D. **2023**. Urban tree pests can support biological control services in landscape shrubs. *BioControl*, 68, pp.375-386. <https://doi.org/10.1007/s10526-023-10192-8>
3. **Wilson, C.J.**, and Frank, S.D. **2023**. Scale insects contribute to spider conservation in urban trees and shrubs *Journal of Insect Conservation*. 27, pp.479-492. <https://doi.org/10.1007/s10841-023-00471-1>

4. **Wilson, C.J.**, Backe K.M., Just M.G., Lahr, E.C., Nagle, A.M., Long, L.C., Dale, A.G., Frank, S.D. **2023**. Tree species richness around urban red maples reduces pest density but does not enhance biological control. *Urban Forestry and Urban Greening*. 88. <https://doi.org/10.1016/j.ufug.2023.128093>
5. **Wilson, C.J.** and Bertone, M.A. **2024**. Ecology and management of the crape myrtle aphid (Hemiptera: Aphididae) on crape myrtle (Myrtales: Lythraceae) in the southern United States. *Journal of Integrated Pest management*. 15(1), 11, 1-9. <https://doi.org/10.1093/jipm/pmae003>
6. **Wilson, C.J.**, Petrice, T.R., Poland, T.M., McCullough, D.G. **2024**. Tree species richness and ash density have variable effects on emerald ash borer biological control by woodpeckers and parasitoid wasps in post-invasion white ash stands. *Environmental Entomology*. 53(3), 1-17. <https://doi.org/10.1093/ee/nvae060>
7. Schulte, K.D., **Wilson C.J.**, Tawril, A., Jamieson, M.A. Spatiotemporal variability and functional redundancy obscure effects of urbanization on strawberry pollinators. **Accepted**. *Ecosphere*.