

# LUKE E. HEARON

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## EDUCATION

- Doctor of Philosophy, Entomology** 2024 – Current  
*Columbus, OH, The Ohio State University*  
Advisor: Dr. Reed Johnson
- Master's of Science, Entomology** 2020 – 2023  
*Champaign, IL, The University of Illinois, Urbana-Champaign*  
Advisor: Dr. Carla E. Cáceres  
Thesis available at [ideals.illinois.edu/items/127368](https://ideals.illinois.edu/items/127368)
- Bachelor of Science in Entomology** 2015 – 2019  
*Columbus, OH, The Ohio State University*  
*Cum laude* with research distinction  
Minor in Evolution and Ecology

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## FUNDING

### FELLOWSHIPS

- Illinois Distinguished Fellowship (\$75,000)** 2020 – 2023  
*University of Illinois, Urbana-Champaign*

### SELECTED GRANTS (\$13,975 TOTAL)

- Honey Bee Health Improvement Project (\$9,975)** 2026 – 2027  
*North American Pollinator Protection Campaign* · “Understanding Daily Foraging Patterns to Protect Pollinators from Pesticides” · **Hearon, L.E.**, Johnson, R.M.

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## SCIENTIFIC PUBLICATIONS

### PEER REVIEWED

- buzzdetect: an open-source deep learning tool for automated bioacoustic pollinator monitoring** 2025  
**Hearon, L.E.**, Johnson, L.H.P., Underwood, J., Lin, C.H., Johnson, R.M. · *Journal of Insect Science (in press)*

<https://doi.org/10.1093/jisesa/ieaf104>

- Testing mechanisms driving the increased susceptibility of \*Daphnia\* to disease when exposed to \*Chaoborus\* cues** 2025  
**Hearon, L.E.**, Cáceres, C.E. · *Journal of Plankton Research*

<https://doi.org/10.1093/plankt/fbaf072>

Quantitative multi-locus metabarcoding and waggle dance interpretation reveal honey bee spring foraging patterns in Midwest agroecosystems 2018  
Richardson, R.T., Curtis, H.R., Matcham, E.G., Lin, C.H., Suresh, S., Sponsler, D.B., **Hearon, L.E.**, Johnson, R.M. · *Molecular Ecology*  
<https://doi.org/10.1111/mec.14975>

## IN PRESS

Assessing the Repellency of an Insecticide-Fungicide Combination to Bees using Bioacoustics 2026  
Johnson, L.H.P., **Hearon, L.E.**, Lin, L.H., Lindsey, L.E., Johnson, R.M. · *Journal of Visualized Experiments*

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## SCIENTIFIC PRESENTATIONS

### ORAL PRESENTATIONS

Daily pollinator activity patterns vary strongly between plants 2026  
*The Ohio State University Plant Sciences Symposium, Columbus, OH* · **Hearon, L.E.**, Johnson R.M. · *2nd in class*

Understanding Daily Foraging Patterns to Protect Pollinators 2026  
*The Ohio State University Global One Health Day, Columbus, OH* · **Hearon, L.E.**, Johnson R.M. · *invited*

Comparing diel pollinator foraging patterns between patches using passive acoustic monitoring 2025  
*Entomological Society of America, Portland, OR* · **Hearon, L.E.**, Johnson R.M. · *invited*