

# LUKE E. HEARON

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[github.com/LukeHearon](https://github.com/LukeHearon)

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## EDUCATION

The University of Illinois,  
Urbana–Champaign Fall 2020–Spring 2023  
*Master's of Science, Entomology*

Advisor: Dr. Carla E. Cáceres

Thesis available at [ideals.illinois.edu/items/127368](https://ideals.illinois.edu/items/127368); GPA: 3.96

The Ohio State University Spring 2015–Fall 2019  
*Bachelor of Science in Entomology*  
*Minor in Evolution and Ecology*

Graduated *cum laude* with research distinction, major GPA 3.84

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## WORK

The Ohio State University, Honey Bee Lab 2023–present  
*Research Technician*

- PI: Dr. Reed Johnson
- Creating buzzdetect, a machine learning, supercomputer-scalable tool for automated detection of honey bee flight buzzes in audio
- Studying effects of pollen diet on *Vairimorpha* infection in adult honey bees

University of Pennsylvania, Morris Arboretum 2019–20  
*Plant Protection Intern*

- Operated the Arboretum Plant Clinic; diagnosed plant, pest, and disease submissions, and advised on treatment
- Pest scouting on arboretum grounds and greenhouse
- Conducted research project quantifying bycatch of sticky bands used to trap spotted lanternfly; presented results to Arboretum staff, homeowners, and researchers

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**FELLOWSHIPS****Illinois Distinguished Fellowship**

3-year fellowship with full coverage of tuition and \$25,000 annual stipend Awarded in fall semester of 2020

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**RESEARCH FUNDING – \$4,000 net****\$1,000 Francis M. and Harlie M. Clark Research Support Grant (UIUC internal) (2021)**

**Hearon, L.E.** “Impacts of Parasitized Prey upon Predator Fitness in the Predator-Spreader System”

**\$3,000 Ohio State Beekeepers Association (2018)**

Johnson, R.M., **Hearon, L.E.** “Soybean or Clover: Pollen Analysis to Determine Floral Source of Ohio Summer Honey”

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**PUBLICATIONS, PEER-REVIEWED****Molecular Ecology**

Richardson, R. T., Curtis, H. R., Matcham, E. G., Lin, C. H., Suresh, S., Sponsler, D. B., **Hearon, L. E.**, Johnson, R. M. 2018. Quantitative multi-locus metabarcoding and waggle dance interpretation reveal honey bee spring foraging patterns in Midwest agroecosystems. *Molecular Ecology*.

**Freshwater Biology (IN REVIEW)**

**Hearon, L. E.**, Cáceres, C.E. Testing feeding rate and resource trade-off as mechanisms driving the increased disease of *Daphnia* exposed to *Chaoborus* cues.