

HANNAH R. DEHUS

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EDUCATION

- Current** **M.S.** The Ohio State University, Columbus, OH
Environmental Sciences Graduate Program
- 2021** **B.S.** The Ohio State University, Columbus, OH
Biology Major, Pre-health Profession Specialization
Entomology Minor
(Attended 2018 – 2021)

PEER-REVIEWED PUBLICATIONS

- [1] Siperstein, A., Pomeroy, L.W., Robare, S., Sarko, L., **Dehus, H.**, Lowmiller, T., Fyie, L., and Meuti, M.E., 2022. Characterizing seasonal changes in the reproductive activity of *Culex* mosquitoes throughout the fall, winter, and spring in Ohio. *Parasites and Vectors*. 16:173. doi: 10.1186/s13071-023-05806-0.
- [2] **Dehus, H.**, Siperstein, A., Pomeroy, L.W., and Meuti, M.E., [submitted]. Characterizing the seasonal abundance and reproductive activity of *Anopheles* (Diptera: Culicidae) mosquitoes in central Ohio. *Journal of Medical Entomology*.

HONORS & AWARDS

- 2022** National Defense Service Medal (*United States Army*)
- 2021** Army Achievement Medal (*United States Army*)
- 2021** Dean's List (*The Ohio State University*)
- 2020** Dean's List (*The Ohio State University*)
- 2019** Army Reserve Component Achievement Medal (*Ohio Army National Guard*)
- 2018** Army Achievement Medal (*United States Army*)

PRESENTATIONS

*First author is the presenting author; *indicates invited presentation.*

- 2023*** **Dehus, H.**, Siperstein, A., Meuti, M.E. “Seasonal changes in the abundance and reproductive activity of *Anopheles* mosquitoes in central Ohio” Presented at the 2023 Ohio Mosquito and Vector Control Association Annual Meeting. 30 October 2023.
- 2023*** Meuti, M.E., Gardiner, M.M., **Dehus, H.**, Narayanan, D. “Assessing how various mosquito management practices affect pollinators and mosquitoes.” Presented at the 2023 Ohio Mosquito and Vector Control Association Annual Meeting. 31 October 2023.
- 2022*** Siperstein, A., Pomeroy, L.W., Robare, S., Sarko, L., **Dehus, H.**, Lowmiller, T., Fyie, L., and Meuti, M.E. “The Seasonality of Mosquito Biting in Franklin County.” Presented at the 2022 Ohio Mosquito and Vector Control Association Annual Meeting. 24 October 2022.
- 2022*** Meuti, M.E., Gardiner, M.M., **Dehus, H.** “Comparing mosquito traps and traditional control.” Presented at the 2022 Ohio Mosquito and Vector Control Association Annual Meeting. 24 October 2022.

RESEARCH EXPERIENCE

Current *Graduate Research Associate*

Environmental Sciences Graduate Program
The Ohio State University
Principle Investigator: Megan E. Meuti

Collecting mosquitoes from residential areas throughout Franklin County, Ohio; setting, collecting, and maintaining mosquito traps; writing and editing manuscripts.

Research Projects:

- Aligning municipal investments in urban greening and mosquito control to support human and ecosystem health

2021 – 2023 *Research Assistant II*

Department of Entomology,
The Ohio State University, Columbus, Ohio.
Principle Investigator: Megan E. Meuti

Reared and maintained a laboratory colony of *Culex pipiens* mosquitoes, conducted and assisted in ecological and entomological studies, assisted in graduate student research, collaborated with Franklin County Public Health and the Bexley Mosquito Task Force, maintained laboratory and insectary materials, wrote and edited manuscripts, assisted in outreach events.

Research Projects:

- Evaluating the impact of current mosquito control on the environment and public health
- Characterizing the seasonal abundance and reproductive activity of *Anopheles* mosquitoes in central Ohio
- Characterizing seasonal changes in the reproductive activity of *Culex* mosquitoes throughout the fall, winter, and spring in Ohio

PROFESSIONAL EXPERIENCE

2017 – 2023 *Sergeant*

1485th Transportation Company, 112th Transportation Battalion, Ohio Army National Guard, Canton, Ohio.

Commander: 1st Lieutenant Stover, Tate

Developed and led interactive courses, planned and co-led convoy movements through Ohio and surrounding states, collaborated with superiors and peers to plan effective missions and coordinate mission-specific tasks, supported the Mid-Ohio Food Bank and assisting staff and patients at The James Cancer Hospital at The Ohio State University during the COVID-19 pandemic.

2021 – 2022 *Field and Laboratory Technician*

Clarke Environmental Mosquito Management, Columbus, Ohio

Site Manager: Derek Dillard

Assisted in Franklin County Public Health's integrated mosquito management program by counting and identifying adult mosquitoes; performing laboratory assays to detect West Nile virus infection in adult mosquitoes; conducting field surveillance of mosquitoes at adult and larval stages; treating larval breeding sites with Spinosad larvicides; measuring effects of adulticide applications on mosquito populations; and recording and maintaining surveillance data.

EXTENSION, OUTREACH & VOLUNTEER

2021- 2023 *“Fight the Bite” Mosquito Tire Drives (9 events; 25-100 attendees each)*
Franklin County Public Health, Vector Management Program, Columbus, Ohio
Vector Program Coordinator: Zach Holbert-Watson

Collected scrap tires from the public, delivered educational materials and larvicide to community members, educated community members on the importance of mosquito control and surveillance; identifying and eliminating mosquito breeding sites; and measures to reduce mosquito-borne disease risk.

2021-2023 *“Touch-A-Truck” Community Events (4 events; 750-1000 attendees each)*
Franklin County Public Health, Vector Management Program, Columbus, Ohio
Vector Program Coordinator: Zach Holbert-Watson

Assisted Franklin County Public Health in advocating their integrated mosquito management program, educated community members on the importance of mosquito control and surveillance; identifying and eliminating mosquito breeding sites; and measures to reduce mosquito-borne disease answered patron questions concerning the life cycle and biology of mosquitoes, delivered educational materials and larvicide to community members.

PROFESSIONAL TRAINING & WORKSHOPS

2022 *Structured Self Development Course (United States Army)*

2021 *Suicide Awareness and Prevention Training (United States Army)*