

Katherine McNamara Manning, Ph.D., GRP

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Experience

Current appointments

2023 - present Postdoctoral Scholar, Research Development, Environmental Science and Design
Research Institute, Kent State University

Previous appointments

2023 Preprofessional Recognition of Excellence and Potential Fellow, Green Roofs for Healthy
Cities and Regional Academic Centers of Excellence

2018 - 2023 Graduate student researcher, Bahlai Lab of Applied Computational Ecology, Department
of Biological Sciences, Kent State University
Research assistantship | Fall 2021
Fellowship | Spring 2023

2017 Research technician, Isaacs Lab, Department of Entomology, Michigan State University

2016 Entomologist & educator, The Original Mackinac Island Butterfly House & Insect World

2016 Undergraduate research assistant, Hill Lab, Department of Integrative Biology, Michigan
State University

2015 - 2016 Undergraduate research assistant, Landis Lab, Department of Entomology, Michigan
State University

Education and Accreditation

Ph.D.

Ecology and Evolutionary Biology	Kent State University	2018 – 2023
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B.S.

Environmental Biology/Zoology	Michigan State University	2012 - 2016
Minor in Environmental and Sustainability Studies		

Accredited GRP

Green Roof Professional	Green Roofs for Healthy Cities	2023
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Publications

McNamara Manning, K., Coffman R.R., and Bahlai C.A. Insect pollinator and natural enemy communities in green roof and ground-level urban habitats. *Research Square*. <https://doi.org/10.21203/rs.3.rs-2719839/v1>

McNamara Manning, Katherine; Perry, Kayla I.; and Bahlai, Christie A. 2023. "Characterizing insect communities within thin-soil environments," *The Great Lakes Entomologist*, vol 56 (1) <https://doi.org/10.22543/0090-0222.2431>

McNamara Manning, K., Perry, K.I., and Bahlai, C.A. A novel method for monitoring ground-dwelling arthropods on hard substrates: characterizing arthropod biodiversity among survey methods. *BioRxiv*, 2021.12.06.471448. <https://doi.org/10.1101/2021.12.06.471448>

Presentations

- 2023 **McNamara Manning, K.**, D. Landis, and C. Bahlai. "Adapting to changing methodology in a long-term experiment" (Poster).
Kent State University Graduate Student Research Symposium. Kent, OH.
McNamara Manning, K. "Evaluating biases in biodiversity sampling of insects in managed environments" (Talk).
Dissertation seminar. Department of Biological Sciences, Kent State University. Kent, OH.
- 2022 **McNamara Manning, K.** and C. Bahlai. "Characterizing insect communities in thin-soil environments" (Poster).
Kent State University Graduate Student Research Symposium. Kent, OH. April.
Kent State University EarthFest. Kent, OH. April.
Entomological Society of America, Entomological Society of Canada, and Entomological Society of British Columbia Joint Annual Meeting. Vancouver, BC, Canada. November.
- 2021 **Manning, K.M.** and C. Bahlai. "Trapping method impact on insect catch: Experimental calibration for addressing bias in insect biodiversity monitoring" (Poster).
Kent State University Graduate Student Research Symposium. Kent, OH. April.
McNamara Manning, K. and C. Bahlai. "Experimental calibration for addressing bias in arthropod biodiversity monitoring" (Poster).
Ecological Society of America Annual Meeting. Long Beach, CA. August.
Entomological Society of America Annual Meeting. Denver, CO. October.
McNamara Manning, K. and C. Bahlai. "Experimental calibration for addressing bias in arthropod biodiversity monitoring" (Talk).
Canadian Society for Ecology and Evolution Annual Meeting. Vancouver, British Columbia, Canada. August.
- 2020 **Manning, K.M.**, R. R. Coffman, and C. Bahlai. "Built by Nature: community and function in natural and structurally analogous urban systems" (Poster).
Kent State University Environmental Science and Design Research Initiative Symposium. Kent, OH. March.
Kent State University Graduate Student Research Symposium. Kent, OH. April. *
Society of America Annual Meeting. Salt Lake City, UT. August.

- Manning, K.M.** “Built by Nature: community and function in natural and structurally analogous urban systems” (Talk).
 Kent State University Environmental Science and Design Research Initiative Symposium, Living Architecture breakout session. Kent, OH. March. *
 CitiesAlive Conference – Emerging Professionals Research Launch Pad Session. Philadelphia, PA. October.
- Manning, K.M.** “Trapping method impact on insect catch” (Talk).
 Kent State University Ecological and Evolutionary Biology Weekly Meeting. Kent, OH. December.
- 2019 **Manning, K.M.**, R. R. Coffman, and C. Bahlai. “Understanding biodiversity services in urban and analogous natural systems: the case of green roofs” (Poster).
 Kent State University Environmental Science and Design Research Initiative Symposium. Kent, OH. March.
 Kent State University Graduate Student Research Symposium. Kent, OH. April.
 Greater Ohio Living Architecture Symposium. Cleveland, OH. May.
- Manning, K.M.** “Understanding biodiversity services in urban and analogous natural systems: the case of green roofs” (Talk).
 Kent State University Ecological and Evolutionary Biology Weekly Meeting. Kent, OH. April.
- Manning, K.M.** “Built by Nature: community and function in natural and structurally analogous urban systems” (Talk).
 Kent State University Ecological and Evolutionary Biology Weekly Meeting. Kent, OH. November.
- 2018 Rowe, L., D. Gibson, J. Perrone, **K. Manning**, C. Bahlai, R. Isaacs and D. Landis. “Relative attractiveness of Great Lakes native forbs to beneficial insects” (Poster).
 Canadian Society of Ecology and Evolution Annual Meeting, University of Guelph, Guelph, Ontario, Canada. July.

*Cancelled due to COVID-19

Teaching

Anatomy and Physiology I

Lab instructor (remote) - Fall 2020, BSCI 21010, 2 lab sections (~60 students)

Anatomy and Physiology II

Lab instructor (remote) - Spring 2021, BSCI 21020, 2 sections (~60 students)

Biological Diversity

Lab instructor - Fall 2018, BSCI 10110, 2 lab sections (~50 students)

Lab instructor - Fall 2022, BSCI 10110, 1 section (~12 students)

Biological Foundations

Lab instructor - Spring 2019, BSCI 10120, 2 lab sections (~50 students)

Lab instructor - Fall 2019, BSCI 10120, 1 lab section (~25 students)

Lab instructor - Spring 2020, BSCI 10120, 1 lab section (~25 students)

Cell biology

Lecture aide - Fall 2019, BSCI 30140 lecture (~170 students)

Lab experience in Biology

Lab coordinator - Spring 2022, BSCI 10003, 8 sections (~100 students)

Organismal and Population Biology

Lecture aide - Fall 2015, Michigan State University (~150 students)

Awards and Fellowships

Awarded

- 2022 Graduate Student Leadership Award, Kent State University - Department of Biological Science.
Rick Bowers Dissertation Fellowship, Kent State University - Department of Biological Science.
Preprofessional Recognition of Excellence and Potential Fellowship, Green Roofs for Healthy Cities and the Regional Academic Centers of Excellence.
Domestic Travel Award, Kent State University - Graduate Student Senate.
- 2021 Poster Presentation Award, Kent State University - Graduate Student Senate.
Domestic Travel Award, Kent State University - Graduate Student Senate (Awarded twice).
- 2020 Book Award, Kent State University - Graduate Student Senate.
Domestic Travel Award, Kent State University - Graduate Student Senate.
- 2019 Research award: "Understanding biodiversity services in urban and analogous natural systems in the Great Lakes Basin: the case of green roofs", Kent State University - Graduate Student Senate.

Not Awarded

- 2020 Lewis and Clark Fund for Exploration and Field Research, American Philosophical Society.
Art and Margaret Herrick Aquatic Ecology Research Facility Student Research Grant, Kent State University.
- 2019 Lewis and Clark Fund for Exploration and Field Research, American Philosophical Society.
Graduate Research Fellowship Program, National Science Foundation.
Fellowship in Ecological Restoration, Garden Club of America.

Workshops

Attendee

- 2021 "Communicating your science to non-scientists" hosted by the Federation of European Neuroscience Societies.
Best Practices for Pollinators Summit hosted by the Pollinator Friendly Alliance and Xerces Society.
- 2020 Weekly Scientific Writing Workshop led by Dr. Lauren Kinsman-Costello of Kent State University.
- 2019 Scientific Teaching in Action led by Dr. Robin Wright of University of Minnesota at Kent State University.

Mentorship and Supervisory Experience

Undergraduate students

5

High school students

2

Graduate students

4

Other

Mentorship program for accelerated science middle school students at Painesville Ohio School District.

2019 – 2022

University Service

Judge for Environmental Science and Design Research Institute poster presentations. **2023**
College of Arts and Sciences Curriculum Committee Alternate Representative. **2022 – 2023**
Co-President of the Biology Graduate Student Council. **2021 – 2023**
Biological Sciences Graduate Studies Committee Graduate Student Representative. **2021 – 2023**
KSU Graduate Student Senate Alternate Senator for Biological Sciences. **2021 – 2023**
Coordinator of the Annual Brain Day 5K Benefit, co-run by KSU Biology Graduate Student Council and Brain Health Research Institute. **2021 – 2023**
Organizer for Biological Sciences graduate student mentorship program. **2021 – 2023**
Graduate Academic Evaluation Committee Member. **2021**
Organizer of and participant in various social and charitable events with the KSU Biology Graduate Student Council. **2020 - 2023**
Biological Sciences Graduate Student Senator, serving on KSU Graduate Student Senate and Biology Graduate Student Council. **2020 - 2021**
Social Media Manager for the Biology Graduate Student Council. **2020 & 2022**
Graduate Student Representative for Biological Sciences Seminar Committee. **2020 – 2021**
Graduate Student Senate Research Award Review Committee Member. **2020 – 2021**
Judge for KSU Summer Undergraduate Research Experience research presentations. **2020**

Outside Service

Reviewer for Diversity & Distribution. **2022 – 2023**
Reviewer for Agriculture, Ecosystems & Environment. **2021**

Affiliations

Ecological Society of America
Green Roofs for Healthy Cities – Greater Ohio Living Architecture Regional Academic Center of Excellence
Kent State University Architecture and Environmental Design – Novel Ecology Design Lab
Kent State University Brain Health Research Institute
Kent State University Environmental Science and Design Research Institute
Michigan Entomological Society