Eric Grant Prileson

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EDUCATION & RESEARCH EXPERIENCE

Washington State University Vancouver, Vancouver, WA; *August 2023 - present*
PhD Candidate, Biology; Advisor: Dr. Seth M. Rudman

- Conducted field collections, laboratory rearing, preparation of DNA sequencing and reference genome construction of a freshwater zooplankton
- Designed and executed an experiment to test the evolution of plasticity of low temperature and toxin stress
- Designed and executed experiments to test food choice, winter evolution and stress tradeoffs in *Drosophila melanogaster*

Case Western Reserve University, Cleveland, OH; *August, 2021 - August 2023*
M.S. Biology; Advisor: Dr. Ryan A. Martin

- Designed and completed a multi-season common garden study of field collected acorn ants to determine divergence in thermal physiology traits across the urbanization gradient
- Created and designed a common garden study of field caught springtails (Collembola) to determine microgeographic variation in thermal and salinity tolerance within urban field sites

SELECTED PEER REVIEWED PUBLICATIONS:

Published:

7. Diamond, S. E., Martin, R. A., Avery, A. J., Bellino, G., Fleming, D., McCluney, K. E., **Prileson, E. G.**, & Sasaki, M. 2026. Thermophilization over space but not time among communities of ground-dwelling arthropods in a desert city. *Ecology*, *107*(1), e70283. https://doi.org/10.1002/ecy.70283

6. **Prileson, E. G.,** Campagnari, B., Clare, C. I., Gabidulin, A. R., Shahmohamadloo, R. S., & Rudman, S. M. 2025. Overwintering drives rapid adaptation in Drosophila with potential costs to insecticide resistance. *Evolution*, qpaf205. https://doi.org/10.1093/evolut/qpaf205

5. **Prileson, E.G.,** & Martin, R.A. 2025. Trait correlations shift in sign and magnitude in response to urbanization. *Integrative and Comparative Biology*, icaf048. https://doi.org/10.1093/icb/icaf048

4. **Prileson, E. G.,** & Martin, R. A. 2024. Evolution and plasticity of physiological traits in the collembolan Orchesella villosa at fine spatial scales within the city. *Biological Journal of the Linnean Society*, blae038. https://doi.org/10.1093/biolinnean/blae038

3. **Prileson, E.G.,** Clark J., Diamond, S.E., Lenard, A., Medina-Báez, OA., Yilmaz, A.R., Martin, R.A.. 2023. Keep your cool: Overwintering physiology in response to urbanization in the acorn ant, *Temnothorax curvispinosus*. Journal of Thermal Biology. *114*, 103591. https://doi.org/10.1016/j.jtherbio.2023.103591

2. Diamond, S.E., Martin, R.A., Bellino, G., Crown, K.N., **Prileson, E.G.**. Urban evolution of thermal physiology in a range-expanding, mycophagous fruit fly, Drosophila tripunctata. Biological Journal of the Linnean Society.blac094, https://doi.org/10.1093/biolinnean/blac094.

1. Diamond, S.E., **Prileson**, **E.G.**, Martin, R.A.. Adaptation to urban environments. 2022. Current Opinion in Insect Science. 51:100893 https://doi.org/10.1016/j.cois.2022.100893

In Prep:

1. **Prileson, E.G.**, Campagnari, B., Ruotsalainen, B., Shahmohammadloo, R.S., Zetina, C., and Rudman, S.M.. Gene flow and insecticide resistance alter the magnitude and direction of plasticity across multiple stressors 2026

TEACHING AND MENTORING:

Washington State University Vancouver, Vancouver, WA; August, 2023 - Present

Graduate Teaching Assistant

BIO 492 Genetics Recitation Lead Instructor

- Created lesson plans to review content from genetics and molecular biology lectures and practice problems based on student feedback.

MBIOS 303 Biochemistry Lecture Assistant and Grader

- Checking for understanding during lectures, grading in-class assignments, exams, and communicating with students; providing additional instruction and recitation.

BIO 372 General Ecology Lecture Assistant and Grader

- Checking for understanding during lectures, grading in-class assignments, exams, research papers and communicating with 72 students; providing additional instruction and recitation.

BIO 106 Introductory Biology Lab Instructor and Grader

- Instructed and mentored 45 students on evolution, ecology, and general biological concepts through laboratory and field training. Helped students build and craft skills in scientific writing, general communication, data analysis, and literature research.

Undergraduate student mentoring

Eco-evolutionary dynamics in a freshwater copepod: algae culturing and animal care: 2025-26:

- Dia Bassili, Berina Cehajic, Rosty Koval, Marlise Nosrati, David Senior

Evolution of plasticity; Evolution of food choice and overwintering in *Drosophila melanogaster*: 2024 - 2025

- Brynne Ruotsalainen and Cristian Zetina

Case Western Reserve University, Cleveland, OH; *August, 2021 - August 2023*

Graduate Teaching Assistant

BIOL 214 Introductory Biology Lab Instructor and Grader; BIOL 343 Microbiology Lecture assistant, grader and point of contact; BIOL 315/415 Quantitative Biology

Undergraduate student mentoring

Springtail microgeographic variation, maintenance and rearing: 2022-2023:

- Cecilia Dapino, Harshini Somisetty, Jordan Clark

COMPETITIVE AWARDS AND FUNDING RECEIVED:

2025 WSU Vancouver Research Showcase and EVO-WIBO conference - 1st Place Graduate Student Presentation
2025 Washington State University Research and Training fellowship
2024 Smithsonian Institution Reed Fellowship for Freshwater Copepod Research - $12,000
2024 Washington State University Research and Training fellowship
2023 Joanne Westin Distinguished Graduate Student Teaching Award - Case Western Reserve University
2023 Case Western Reserve University Verhosek Travel Fund
2022 Department of Biology Oglebay Research Grant - Case Western Reserve University
2022 NSF EMERGE BII (funding for travel and accommodations)
2022 NSF LTER Evolutionary Biology - SEEP (funding for travel and accommodations)

RECENT CONFERENCES & WORKSHOPS ATTENDED:

2026 Society for Integrative and Comparative Biology Annual Meeting, Portland, OR
2025 Evolutionary Biology in Washington, Idaho, British Columbia, and Oregon (EVO-WIBO), Semiahmoo, WA
2025 Society for Integrative and Comparative Biology Annual Meeting, Atlanta, GA
2024 Canadian Society for Ecology and Evolution Annual Meeting, Vancouver, B.C., Canada
2023 International Evolution Meeting. Albuquerque, NM

RECENT CONTRIBUTED PRESENTATIONS:

2026 Society for Integrative and Comparative Biology Annual Meeting - Contributed talk
Gene flow and insecticide resistance alter the magnitude and direction of plasticity across multiple stressors

2025 Evolutionary Biology in Washington, Idaho, British Columbia, and Oregon (EVO-WIBO) - Poster presentation
Prileson, E.G. *Gene flow and resistance alter the evolution of plasticity*

2025 Society for Integrative and Comparative Biology Annual Meeting - Contributed talk
Prileson, E.G. *Trait correlation shifts in response to urbanization*