

Eric Grant Prileson

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924 T Street Vancouver, WA 98661

EDUCATION

Washington State University Vancouver, Vancouver, WA; *August 2023 - present*

PhD Biology; Advisor: Dr. Seth M. Rudman

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

M.S. Biology; Advisor: Dr. Ryan A. Martin

GPA: 4.0

Northeastern University, Boston, MA; *September, 2006 -2011*

B.A. History *Magna Cum Laude* ; Minors: *Biology & Business*

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., Shahmohammadloo, 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 Review:

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

ACADEMIC EXPERIENCE

TEACHING AND MENTORING:

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

Graduate Teaching Assistant

BIO 301 Genetics Lecture Assistant and Grader

- Checking for understanding during lectures, grading in-class assignments, exams, and communicating with students

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.

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

Graduate Teaching Assistant

BIOL 214 Introductory Biology Lab Instructor and Grader

- Instructed and mentored for 100 students over two semesters on introductory elements of biological lab and field work, scientific writing, data analysis, and literature research.

BIOL 343 Microbiology Lecture assistant, grader and point of contact

- Assessed summative and formative student work for 100 students and provided additional instruction and revision.

BIOL 315/415 Quantitative Biology Laboratory

- Assisted and assessed student knowledge and practice with R coding and statistical problems and projects.

Undergraduate Student Mentoring

Washington State University Vancouver

Berina Cehajic: 2026: Eco-evolutionary dynamics in a freshwater copepod: algae culturing and animal care

Dia Bassili: 2025 - 2026: Eco-evolutionary dynamics in a freshwater copepod: algae culturing and animal care

David Senior: Summer and Fall 2025: Eco-evolutionary dynamics in a freshwater copepod: algae culturing and animal care

Rosty Koval: 2025 - 2026: Eco-evolutionary dynamics in a freshwater copepod: algae culturing and animal care

Marlise Nosrati: 2025 - 2026: Eco-evolutionary dynamics in a freshwater copepod: algae culturing and animal care

Cristian Zetina: Fall 2024: Developmental plasticity of *Drosophila melanogaster*

Brynn Ruotsalainen: Fall and winter 2025-2026: Evolution of food choice and overwintering in *Drosophila melanogaster*

Case Western Reserve University

Cecilia Dapino: Fall 2022: Springtail microgeographic variation, maintenance and rearing

Harshini Somitsetty: Fall 2022 and Spring 2023: Springtail microgeographic variation, maintenance and rearing

Jordan Clark: Spring 2022: Acorn Ant Overwintering Project: colony maintenance and physiological testing

High School Student Mentoring

Hawken Upper School - STEMM Pathways Program

Matthew McCormack: Summer 2022: Springtail microgeographic variation: field collections and population rearing

RESEARCH EXPERIENCE

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

Rudman Lab

- Conducted field work and molecular 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 an experiment to test winter evolution and stress tradeoffs in *Drosophila melanogaster*
- Designing and preparing a research system to test eco-evolutionary dynamics in a freshwater zooplankton

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

Martin Lab

- 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
- Assisted with field collection, body mass data collection and manuscript edits on thermal tolerance of *Drosophila tripunctata* across the urbanization gradient

Northeastern University, Boston, MA; *May - August 2021*

Research Technician

- Conducted literature review screening and data extraction from selected publications and organized data for a metaanalysis

Tufts University, Medford, MA; *October 2019 – August 2021*

Volunteer Research Assistant

- Collected botanical data from urban field sites to compare with remote sensing and survey data
- Measured morphology of museum specimens, learned and applied photogrammetry methods to quantify traits of interest
- Conducted literature review screening and data extraction from selected publication

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 Ecological Society of America Annual Meeting, Portland, OR
- 2023 International Evolution Meeting. Albuquerque, NM
- 2023 SEEP NSF Workshop. Tempe, AZ
- 2022 International Evolution Meeting. Cleveland, OH
- 2022 NSF EMERGE BII Summer Program. Durham, NH
- 2022 SEEP NSF Workshop. Tempe, AZ

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 Washington State University Vancouver - Research Showcase - Poster presentation

- Prilesen, E.G.**, Rudman, S.M., *Gene flow and resistance alter the evolution of plasticity*
 2025 Evolutionary Biology in Washington, Idaho, British Columbia, and Oregon (EVO-WIBO) - Poster presentation
Prilesen, E.G. *Gene flow and resistance alter the evolution of plasticity*
 2025 Society for Integrative and Comparative Biology Annual Meeting - Contributed talk
Prilesen, E.G. *Trait correlation shifts in response to urbanization*
 2024 Canadian Society of Ecology and Evolution Annual Meeting - Poster presentation
Prilesen, E.G., Rudman, S.M., *Seasonal adaptation and tradeoffs in overwintering Drosophila*
 2024 Washington State University Vancouver - Research Showcase - Poster presentation
Prilesen, E.G., Rudman, S.M., *Seasonal adaptation and tradeoffs in overwintering Drosophila*
 2024 Three-Minute Thesis Competition: Washington State University Vancouver - 3rd place finisher
Prilesen, E.G., Rudman, S.M., *Speciation as a driving factor of an eco-evolutionary feedback*
 2023 Ecological Society of America Annual Meeting - Poster Presentation
Prilesen, E.G., R.A., Martin, *Evolution at small spatial scales in the city*
 2023 International Evolution Meeting - Contributed talk
Prilesen, E.G., R.A., Martin, *Evolution at small spatial scales in the city*
 2023 Case Western Reserve University Department of Biology Symposium Lightning Talk
Prilesen, E.G., R.A., Martin, *Springtail microgeographic variation in the city*
 2022 International Evolution Meeting - Contributed talk
Prilesen, E.G., R.A., Martin, *Overwintering physiology in the acorn ant in response to urbanization*
 2022 SEEP NSF Workshop. May, 2022
Prilesen, E.G., R.A., Martin, *Overwintering physiology in the acorn ant in response to urbanization*
 2022 Three-Minute Thesis Competition: CWRU Final Round Speaker. March 2022
Prilesen, E.G., R.A., Martin, *Overwintering physiology in the acorn ant in response to urbanization*

COMPETITIVE AWARDS AND FUNDING:

- 2025 Washington State University Vancouver Research Showcase - 1st Place Graduate Student Poster Presentation
 2025 EVO-WIBO - 1st Place Graduate Student Poster Presentation
 2025 Washington State University Research and Training fellowship
 2024 Smithsonian Institution Reed Fellowship for Freshwater Copepod - \$12,000
 2024 Washington State University Research and Training fellowship
 2023 Best Lightning Talk Presentation: Case Western Reserve University Department of Biology Symposium
 2023 Joanne Westin Distinguished Graduate Student Teaching Award - Case Western Reserve University
 2023 Case Western Reserve University Verhosek Travel Fund - \$350
 2022 Department of Biology Oglebay Conference Registration Grant Award \$450 - Case Western Reserve University
 2022 NSF EMERGE BII (funding for travel and accommodations)
 2022 NSF LTER Evolutionary Biology - SEEP (\$1500 for travel and accommodations)
 2021 Department of Biology Oglebay Grant Award (\$1500 for research supplies) - Case Western Reserve University
 2011 Phi Alpha Theta - National History Honors Society
 2006 Academic Excellence Scholarship, Northeastern University

OUTREACH AND VOLUNTEER WORK:

- Elder care and writing project* - Vancouver, WA; 2024 - 2025
 - Spending time with a retired geneticist and family to document career work and creative projects
Case Western Reserve University - SOURCE ; Cleveland, OH; 2022 and 2023
 - Undergraduate research symposium judge
Summer CWRU scholars; Cleveland, OH; 2022

- Summer mentor to high school students
- Gelfand STEM Center* - K-5 elementary teaching workshop; Cleveland, OH; 2022
- Assisted with lesson design for an eco-physiology and insect development mini-unit
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NON-ACADEMIC PROFESSIONAL EXPERIENCE:

TEACHING EXPERIENCE:

Medford Public Schools (Andrews Middle School), Medford, MA, September, 2014 - June, 2021

7th Grade Science Teacher

- Engaged students with life, physical, and Earth science content for proficiency in content standards.
- Created a welcoming class environment that encouraged curiosity, investigation, and creativity.
- Advised student-led research through a focus on experimental design and professional communication.
- Used communication streams to actively involve and engage parents to their student's life at school.
- Developed and shared new curriculum units upon adoption of new state standards with fellow faculty.

MIT Museum, Cambridge, MA, June - August, 2018

Summer Educator and Workshop Instructor

- Taught workshops that integrated current research at MIT with museum exhibits and STEM skills.
- Developed projects to connect MIT research to the middle school science classroom.

Medford Public Schools, Medford, MA, September 2013 - June 2014

Paraprofessional & After School Assistant Leader

- Provided 1:1 & small group instruction for students with disabilities within 8th grade inclusion classrooms.
- Helped to design and deliver lessons, support instruction, lead classes and grade student work.
- Supervised and tutored K-5 students in the Medford After School program.

Urban Ecology Institute, Brookline, MA, January 2010 - June 2010

After School Program Teacher: Devotion Middle School

- Taught an after school ecology class covering environmental science basics.
- Wrote elements of course curriculum on plant biology and local ecosystems and organized local field trips.

WRITING EXPERIENCE:

Janji, Inc., Brookline, MA, January - June 2013

Communications & Social Media Intern

- Wrote weekly blog posts connecting the social mission of clean water to the products and customer market.
- Built and expanded social media presence five-fold on multiple platforms including Twitter.

Center on Budget & Policy Priorities (CBPP), Washington, D.C., January - May 2012

Media and Health Policy Intern

- Researched and tracked health reform implementation as part of an ongoing policy publication.
- Researched media citations of the Center's experts and publications, edited communications and papers, and drafted summary blog and social media posts.

Pine Street Inn (Homeless Organization), Boston, MA, July, 2010 - January, 2011

Volunteer Programs & Development Assistant

- Set up, supervised, and gave tours to volunteer groups.
- Communicated Pine Street's work by attending outreach events and writing media publications.
- Prepared and organized fundraising events and developed a campaign for a new housing development project.

Be the Change, Inc., Cambridge, MA, January - May, 2010

Communications Intern

- Managed email marketing and donor communication along with increasing social media presence.

VOLUNTEER EXPERIENCE

Northeast Ohio Science Olympiad, Cleveland, OH, February 2022 and 2023

Test writer, organizer, and proctor

- Co-wrote the Ornithology exam, organized the test day set up, and proctored exams during the competition.

Medford Farmers' Market, Medford, MA, 2018 - 2021

Vice President and Board Member

- Recruited vendors, managed market logistics, and met with city hall officials to start each market.

M3 Outdoors, Medford, MA, 2016 - 2021

Staff Leader

- Led and advised the Outing & Environmental Club and opened opportunities for students in exploring the outdoors and environmental science through outings to local natural areas.

Food for Free, Cambridge, MA, 2010 - 2021

Home Delivery Volunteer

- Packing weekly food boxes and delivering boxes throughout Cambridge with the home delivery program.

Boston College Legal Advocacy Bureau, Waltham, MA, September - December, 2011

Volunteer Intern

- Wrote letters to creditors and debt collectors on behalf of elderly clients.

OTHER EXPERIENCE

Case Western Reserve University Squire Valleeview Farm, Hunting Valley, OH March - August, 2023

Farm food program assistant and maintenance

Planted, tended, harvested produce

Assisted with maintenance of upkeep of building and grounds

Nigel Hamilton (Biographer, Sr. Fellow UMass Boston), Boston, MA & Washington, D.C., 2011 - 2012

Research Assistant for Book Project on "FDR: The Mantle of Command"

Conducted primary document archival research to provide relevant sources for the author.

Analyzed and compiled references into categories based on manuscript organization and process.

Science Blog: <http://thenewparadigm.home.blog>

Communicating current science research related to ecological impacts of climate change

Current Events Blog: <http://understandhistorynow.wordpress.com>

Using historical background as a lens to view and interpret current events.

SKILLS

Certification: Massachusetts Teacher's Initial License: General Science (grades 5-8) & preliminary license: History (grades: 9-12); Wilderness First Aid (2021), CPR & First Aid.

Language: Advanced Spanish language proficiency (writing, reading, and speaking).

Computer: R and R Studio - proficient, GitHub, Bash / Unix and Python, HPC computing: basic level, Google Apps, Microsoft 365, Wordpress.

INTERESTS

Writing, current events, non-fiction reading, science fiction reading, playing guitar, ukulele, and bass, hiking, camping, paddling, snow-sports, team sports, cooking and homebrewing