

Jill M. Love, Ph.D.

Plasticity | Adaptation | Evolution | Genomics

<https://jillmlove.wixsite.com/research>

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Education

- 2026 – pres. **Postdoctoral Scholar, Biochemistry - Genomics**
North Carolina State University – *Raleigh, NC*
Advised by Drs. Rubén Rellán Álvarez and Joseph Gage
- 2026 **Ph.D., Ecology and Evolutionary Biology (EEB)**
Tulane University – *New Orleans, LA*
Advised by Dr. Kathleen Ferris
- 2018 **B.S. Biology; B.A. Environmental and Sustainability Studies**
Summa Cum Laude with Honors; Phi Beta Kappa
Western Michigan University - *Kalamazoo, MI*

Publications

- 2026 **Love, J. M.** & Ferris, K. G. Phenotypic plasticity is broadly adaptive across an elevation gradient in the Cutleaf Monkeyflower. *New Phytologist*. (Early view published).
- 2024 **Love, J. M.** & Ferris, K. G. Local adaptation to an altitudinal gradient: The interplay between mean phenotypic trait variation and phenotypic plasticity in *Mimulus laciniatus*. *Perspect. Plant Ecol. Evol. Syst.* 63, 125795
- 2018 Sarah Stehn & **Jill Syrotchen**. “Assessing the Risk of Denali's Forests to Spruce Beetle Outbreak.” *National Park Service*, U.S. Department of the Interior, July 2018.
<https://www.nps.gov/articles/assessing-the-risk-of-denali-forests-to-spruce-beetles.htm>
- 2018 **Syrotchen, Jill M.**, "The influence of plant modularity on the defense against specialist insect herbivory." (2018) *Honors Theses*.
https://scholarworks.wmich.edu/honors_theses/3026

Presentations

- 2026 Oral, “Linking a genomic locus for leaf shape phenotypic plasticity to natural selection in the wild”
Society for the Study of Evolution conference – *Cleveland, OH*
- 2026 Invited seminar, “Local adaptation and phenotypic plasticity in a California-endemic Monkeyflower, *Mimulus laciniatus*”
University of Louisiana Lafayette – *Lafayette, LA*
- 2026 Oral, “Plasticity: When is Change a Good Thing?”

- 3 Minute Thesis Competition – *New Orleans, LA*
- 2025 Oral, “Investigating the adaptive potential of leaf shape plasticity in a California endemic Monkeyflower, *Mimulus laciniatus*”
Botany conference – *Palm Springs, CA*
- 2024 Poster, “Phenotypic plasticity in *Mimulus laciniatus*: critical photoperiod and leaf shape”
Society for the Study of Evolution conference – *Montreal, Canada*
- 2023 Oral, “Local adaptation to heterogeneity: the interplay between constitutive trait variation and phenotypic plasticity in *Mimulus laciniatus*”
Society for the Study of Evolution conference – *Albuquerque, NM*
- 2023 Poster, “Local adaptation in leaf shape plasticity along an elevational cline in *Mimulus laciniatus*”
Tulane Research, Innovation, and Creativity Summit - *New Orleans, LA*
- 2023 Oral, “Creating maps in R using ggmap”
Tulanians Who Enjoy R Coding Workshop - *New Orleans, LA*
- 2022 Oral, “Local adaptation of phenotypic plasticity using *Mimulus laciniatus*.”
Tulane EEB EcoLunch seminar - *New Orleans, LA*
- 2022 Poster, “Local adaptation in leaf shape plasticity along an elevational cline in *Mimulus laciniatus*”
Society for the Study of Evolution conference - *Cleveland, OH*
- 2021 Oral, “Phenotypic plasticity in a number of traits in *Mimulus laciniatus*”
Society for the Study of Evolution conference - *Virtual*
- 2018 Oral, “The influence of plant size on chemical defense induction”
WMU Lee Honors College Thesis Symposium - *Kalamazoo, MI*
- 2018 Oral, “The influence of plant size on chemical defense induction”
Kalamazoo Area Math and Science Center - *Kalamazoo, MI*
- 2018 Oral, “The influence of plant size on chemical defense induction”
Pierce Cedar Creek Institute Summer Research Symposium - *Hastings, MI*

Selected Honors and Awards

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- 2026 **W.D. Hamilton Award Finalist for Outstanding Graduate Student Presentation**, Society for the Study of Evolution
- 2026 **Grand Prize Winner**, 3 Minute Thesis Competition, Tulane University
- \$3500 2024 **Graduate Research Excellence Grant – Rosemary Grant Advanced Award**, Society for the Study of Evolution
- \$5000 2024 **Lewis and Clark Grant for Exploration and Field Research**, American Philosophical Society

Additional Honors and Awards

2026	George Henry Penn Award for Outstanding Graduate Research, Tulane EEB
2026	Steven Darwin Memorial Upper Level Teaching Assistant Award, Tulane EEB
\$1000 2026	Vernon I. Cheadle Student Travel Award, Botanical Society of America
\$1000 2026	Graduate Research Grant, Tulane EEB
2026	1st Place Figure, Tulane Library Data Visualization Competition
\$1750 2025	Graduate Research Grant, Tulane EEB
\$1000 2025	Scholarly Retreat Award, Bywater Institute, Tulane University
\$550 2025	Travel Grant (Ecology Section), Botanical Society of America
\$1500 2024	Graduate Research Grant, Tulane EEB
\$1000 2024	Graduate Student Research Grant, Tulane Data Hub
\$1250 2023	Graduate Research Grant, Tulane EEB
2023	3rd place poster, Tulane Research, Innovation, and Creativity Summit
\$2000 2023	Graduate Student Research Grant, Tulane Data Hub
\$1000 2022	Graduate Research Grant, Tulane EEB
2022	Honorable Mention, NSF Graduate Research Fellowship
\$650 2021	Graduate Research Grant, Tulane EEB
2014 – 2018	Dean's List (8 semesters), WMU
2017	Undergraduate Research Grant for the Environment, PCCI
2017	Frank Hinds Zoology Award, WMU Biological Sciences Dept.
2017	Research Scholarship, WMU Lee Honors College
2017	Research Scholarship, WMU College of Arts and Sciences
2017	Academic Scholarship, National Garden Clubs
2017	Academic Scholarship, Michigan Garden Clubs
2014	National Merit Scholarship

Teaching Experience

2026	Co-Instructor of Record, Mechanisms of Life (EBIO 1020) Tulane University – <i>New Orleans, LA</i>
2025	Instructor of Record, Honors Thesis Cohort (EBIO 4090) Tulane University – <i>New Orleans, LA</i>
2025	Teaching Assistant, Theory and Methods (EBIO 2020) Tulane University – <i>New Orleans, LA</i>
2025	Instructor of Record, STEM Pre-College Course (Leafy Legends: The Science of Plant Adaptation and Evolution) Tulane University – <i>New Orleans, LA</i>
2025	Instructor of Record, Diversity of Life Laboratory (EBIO 1015)

- 2020 – 2025 Tulane University – *New Orleans, LA*
Teaching Assistant, Diversity of Life Laboratory (EBIO 1015)
 Tulane University – *New Orleans, LA*
- 2023 **Pedagogy Certificate**, Center for Engaged Learning and Teaching
 Tulane University – *New Orleans, LA*
- 2022 **Teaching Assistant**, Processes of Evolution (EBIO 3080)
 Tulane University – *New Orleans, LA*
- 2020 **Teach Anywhere: Online Teaching Training Certificate**
 Tulane University – *New Orleans, LA*

Academic Service

- Peer review for the journals *AoB Plants*, *Journal of Evolutionary Biology*, *BMC Plant Biology*
- 2025 – 2027 Access, Inclusion, and Community (AIC) Member
 Society for the Study of Evolution – *Virtual*
- 2023 – 2024 Graduate Student Advisory Council (GSAC) Member
 Society for the Study of Evolution – *Virtual*
- 2023 Tulanians Who Enjoy R Coding (TWERC) group leader
 Tulane University – *New Orleans, LA*
- 2021 - 2022 EEB Diversity, Equity, and Inclusion graduate student liaison
 Tulane University – *New Orleans, LA*

Educational Outreach

- 2020 – 2025 K-12 STEM In-school Outreach Workshop Leader
 Tulane University – *New Orleans, LA*
- 2020 – 2025 Girls in STEM at Tulane (GIST) and Boys at Tulane in STEM (BATS)
 Workshop Leader
 Tulane University – *New Orleans, LA*
- 2025 STEM Day Activity Leader
 Louisiana Children's Museum – *New Orleans, LA*
- 2024 Forestival Plant Walk & Activity Leader
 A Studio in the Woods (Tulane University) – *New Orleans, LA*
- 2021 – 2022 Skype a Scientist Speaker
Virtual

Past Research Experience

- 2019 – 2020 **Research Technician** with Dr. Jeff Conner
Greenhouse Manager
 Kellogg Biological Station, Michigan State University - *Hickory Corners, MI*
- 2018 **Plant Ecology Intern**
 U.S. National Park Service, Denali National Park & Preserve - *Denali, AK*

2017 **Biological Field Station Student Researcher**
Pierce Cedar Creek Institute (PCCI) - *Hastings, MI*

2016 – 2018 **Research Assistant** with Dr. Stephen Malcolm
Biological Sciences, Western Michigan University - *Kalamazoo, MI*

2018 **Ecology Lab Prep**
Biological Sciences, Western Michigan University - *Kalamazoo, MI*

2015 – 2018 **Horticultural Research and Special Projects Assistant**
Kalamazoo Specialty Plants - *Kalamazoo, MI*