

ROSEMARY A. E. GLOS

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EDUCATION

PhD *anticipated summer 2026*

University of Michigan

Dept. of Ecology and Evolutionary Biology

Advisor: Dr. Marjorie Weber

August 2022 - present

BS *Summa Cum Laude*

Cornell University

Major: Plant Sciences, Minor: Botanical Illustration

Advisors: Chelsea Specht & Shayla Salzman

August 2016 - May 2020

RESEARCH POSITIONS

Doctoral Researcher

2021 – present

Weber Lab, University of Michigan, Dept. of Ecology and Evolutionary Biology, Ann Arbor, MI

the Weber Lab moved from Michigan State University to UM in fall 2022

Research Technician & Lab Manager

2020 – 2021

Onyenedum (née Chery) Lab, Cornell University, School of Integrative Plant Science, Ithaca, NY

Undergraduate Research Technician

2019 – 2020

Specht Lab, Cornell University, School of Integrative Plant Science, Ithaca, NY

Fieldwork at Montgomery Botanical Center, Coral Gables, FL

Undergraduate Research Technician

2018 – 2019

Cornell Climate-Resilient Farming Systems, Ithaca, NY

Fieldwork along the Upper Suriname River, Suriname

PUBLICATIONS

In Prep, Submitted or In Review

[2] Glos, R.A.E., and Weber, M.G. *Ecological and phylogenetic determinants of ant-mediated indirect defense in blazingstars (Mentzelia, Loasaceae)*. In Prep.

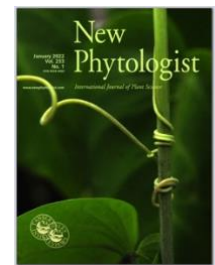
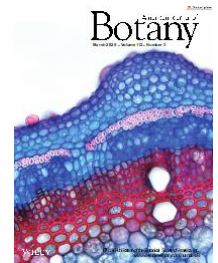
[1] Glos, R.A.E.*, Soule, A.J.*,+++,and Weber, M.G. *Micromorphology and Chemistry of Mite Domatia: Mutualistic Trait Convergence and Variation Across Eight Temperate North American Species*. In prep.

**co-first authors, +++11 undergraduate co-authors from the summer 2025 class "Insights from Trees"*

Published or In Press

6. Hunt, L., Sousa-Baena, M.S., Acevedo, A., Semana L., Wang, A., Glos R.A.E., Ambrose B.A., Anderson, C.T., Onyenedum, J. In press. *XTH genes impact growth habit determination of twining common bean vine revealed by brassinosteroid treatment*. **New Phytologist**.

5. Glos, R.A.E., Soule, A. J., and Weber, M.G. 2026. *Separate and synergistic anti-herbivore effects of non-glandular trichomes and leaf chemistry in a desert plant.* **Functional Ecology.** 00:1–14. <https://doi.org/10.1111/1365-2435.70248>.
4. Glos, R.A.E., and Weber, M.G. 2025. *Multiple metrics of trichome diversity support independent evolutionary hypotheses in blazingstars (Mentzelia: Loasaceae).* **Evolution.** 79(1), <https://doi.org/10.1093/evolut/qpaf054>.
3. Onyenedum, J.G., Sousa-Baena, M.S., Acevedo, A.A., Hunt, L., Glos, R.A.E., Anderson, C.T. 2025. *Gelatinous fibers develop asymmetrically for posture support of bends and coils in common bean vine.* **American Journal of Botany.** 112(3), <https://doi.org/10.1002/ajb2.70014>. Cover featured my image.
2. Glos, R.A.E., Salzman, S., Calonje, M., Vovides, A.P., Coiro, M., Gandolfo, M. A., Specht, C.D. 2022. *Leaflet Anatomical Diversity in Zamia (Cycadales: Zamiaceae) Shows Little Correlation with Phylogeny and Climate.* **Botanical Review.** 88(4), 437-452. <https://doi.org/10.1007/s12229-021-09272-0>.
1. Chery, J.G., Glos, R.A.E., and Anderson, C.T., 2021, *Do woody vines use gelatinous fibers to climb?* **New Phytologist** 233(1), 126-131. <https://doi.org/10.1111/nph.17576>. Cover featured my image.



HONORS & AWARDS

Best Graduate Student Paper , Ecology Section, Botany Conference	2024
Young Botanist Award , Botanical Society of America	2020
<i>Recognizes exceptional graduating seniors in plant biology.</i>	
Merrill Presidential Scholar , Cornell University Office of the President	2020
<i>Awarded to Cornell University's most outstanding seniors (35 awardees university-wide).</i>	
SUNY Chancellor's Award for Student Excellence , State University of New York	2020
<i>As the "highest honor bestowed upon a student by the University" the SUNY CASE acknowledges students who have best demonstrated the integration of excellence within many aspects of their lives, including academics, leadership, campus involvement, community service, and the arts.</i>	
College of Agriculture and Life Sciences Academic Excellence Award , Cornell University	2020
<i>Recognizes graduating seniors with top academic performance and contributions to the College of Agriculture and Life Sciences (1-2 awarded per major).</i>	

GRANTS & FELLOWSHIPS

NSF Graduate Research Fellowship (\$159,000 over 3 yrs), <i>US Nat'l Science Foundation</i>	2023-present
Dr. Nancy William Walls Award for Field Research (1,500)	2024, '25
Rackham Graduate Student Research Grant (\$3,000), <i>UM Rackham Graduate School</i>	2025
EEB Conference Travel Award (\$400), <i>UM Dept. of Ecology and Evolutionary Biology</i>	2022, '23, '24
Rackham Student Travel Grant (\$900), <i>UM Rackham Graduate School</i>	2022, '23, '24
Rackham Graduate Student Research Grant (\$1,500), <i>UM Rackham Graduate School</i>	2023
Bill Dahl Graduate Student Research Award (\$1,500), <i>Botanical Society of America</i>	2022
Howard McCarley Student Research Award (\$3,000), <i>Southwestern Association of Naturalists</i>	2022
Rodman Botany Scholarship (\$3,000), <i>Dept. Plant Biology, Michigan State University</i>	2022
Paul Taylor Endowment Award (\$500), <i>Dept. Plant Biology, Michigan State University</i>	2022

EEB Professional Horizons Grant (\$1,700), <i>MSU Program in Ecology and Evolutionary Biology</i>	2022
University Distinguished Fellowship (\$58,000), <i>Michigan State University</i>	2021
<i>Prestigious support package awarded to only 20/500 incoming graduate students.</i>	
<i>Guaranteed stipend for 1st and 5th years of dissertation (5th year declined when lab transferred to UM).</i>	
College of Natural Sciences Recruiting Fellowship (\$3,000), <i>Michigan State University</i>	2021
Plant Science Supplemental Scholarship (\$2,500), <i>Dept. Plant Biology, Michigan State University</i>	2021
Academic Research Enrichment Grant (\$500), <i>Cornell CALS Alumni Association</i>	2019
Dextra Undergraduate Research Grant (\$1,000), <i>Cornell University</i>	2019
Student Travel Grant (\$500), <i>Triarch Incorporated and Botanical Society of America</i>	2019

TALKS AND WORKSHOPS

- Synergistic Anti-Herbivore Effects of Hooked Trichomes and Leaf Chemistry in a Desert Plant.** (2025). *Gordon Research Seminar on Plant-Herbivore Interactions, Pomona, CA.*
- Eco-Evolutionary Insights in the Function and Diversification of Complex Trichomes in Loasaceae.** (2024). *Botany Conference, Grand Rapids, MI.* **Ecology Section Best Graduate Student Paper**
- SciComm as a Creative Outlet.** (2023). *ComSciCon Michigan (virtual).*
- Rekindle your creativity: Unifying art and science for personal and professional wellbeing.** (2023). *Botany Conference, Boise, ID.* Half-day workshop co-organized with N. Sipperly, K. Pham, P. Chan, & A. Hamersma.
- Catch, Stick, Sting: Evolution and Ecology of Complex Trichomes in Loasaceae.** (2023). *UMich EEB Tuesday Lunch Seminar Series.* Dissertation Proposal Talk
- Science, Art, and You: Harnessing Creativity from Process to Project.** (2022). *Botany Conference, Anchorage, AK.* Half-day workshop co-organized with N. Sipperly, K. Pham, & P. Chan.
- Nature's Velcro: Evolution and Ecology of Complex Trichomes in Loasaceae.** (2023). *Botany Conference, Boise, ID.*

CONFERENCE POSTERS

- Synergistic Anti-Herbivore Effects of Hooked Trichomes and Leaf Chemistry in a Desert Plant.** (2025). *Gordon Research Conference on Plant-Herbivore Interactions, Pomona, CA.*
- Complex Trichomes of *Eucnide urens* (Loasaceae) Trap and Impede Feeding by a Generalist Herbivore.** (2024). *Symposium on Insect-Plant Relationships, Bielefeld, Germany.*
- Catch, Stick, Sting: The Evolutionary Ecology of Complex Trichomes in Loasaceae.** (2023). *Gordon Research Seminar and Conference on Plant-Herbivore Interactions, Ventura, CA, USA.*
- Catch, Stick, Sting: The Evolutionary Ecology of Complex Trichomes in Loasaceae.** (2022). *Botany Conference, Anchorage, AK.*
- A Phylogenetic and Geographic Analysis of Leaflet Anatomy in *Zamia* (Cycadales: Zamiaceae).** (2020). *Virtual Botany Conference.*
- New Insights into Saamakan Rice Diversity in Suriname.** (2019). *Botany Conference, Tucson, AZ.*

TEACHING EXPERIENCE

- Graduate Student Instructor, *Insights from Trees* (EEB 405, UM)** Summer 2025
UM Biological Station, Pellston, MI. Participated in course design, graded, guest lectured, and conducted a research project resulting in a manuscript (in prep) with students as co-authors.
- Graduate Student Instructor, *Introductory Biology: Ecology and Evolution* (BIO 171, UM)** Winter 2023
- Undergraduate Teaching Assistant, *Restoration Ecology* (PLHRT 4400, Cornell)** Fall 2019

Undergraduate Teaching Assistant, Vascular Plant Systematics (PLBIO 2480, Cornell) Spring 2019

ACADEMIC SERVICE

Reviewer, AoB Plants, New Phytologist, *Systematic Botany*, *Southwestern Naturalist* 2022 - present
Guest Editor, *Plant Science Bulletin* 2022-2024
 Co-editor on a 3- issue anthology exploring the past, present, and future of botanical art.
Planning Committee Member, *Early Career Scientists Symposium*, UM EEB 2023
Teaching Materials Editor, *Project Biodiversify* 2022

PUBLIC OUTREACH

ID Day, *UM Museum of Natural History and UM Herbarium* 2025
 Led plant-focused interactive activities at a community event where UM museums share their collections and identify objects brought in by visitors.
"Leaves under the Lens" exhibit, *Matthaei Botanical Gardens, Ann Arbor, MI* 2025
 Planned, researched, and designed a popular three-month long exhibit that introduced visitors to the microscopic world on leaf surfaces (rosemaryglos.com/leaves-under-the-lens). Visited by approx. 20,000 visitors. Led hands-on microscope activities for kids and guided tours of the exhibit.
Featured scientist, *UM Museum of Natural History Micro Worlds Investigative Lab* 2025
 Designed a semester-long exhibit that prompted kids to explore answers to the question "How do plants defend themselves?" with activity sheets in English and Spanish. Responded to visitor questions about plants in the museum's monthly newsletter, which reaches 14,000 subscribers.
"The Wild World of Plant Hairs" bI/O Seminar Series, *Jackson, MI* 2024
 Presented a science and career talk to incarcerated students at Parnall Correctional Facility.
"The Wonderful World of Plant Hairs" MSU SciFest 2022
 Designed and ran hands-on kids' activities focused on plant microscopic features.
"The Velcro Leaf Family" podcast interview, *Crime Pays but Botany Doesn't* 2022

PROFESSIONAL DEVELOPMENT

Disability in Teaching Workshop, CRLT, University of Michigan 2024
The Stories our Systems Tell Workshop, CRLT Players, University of Michigan 2024
Trans Inclusive Mentoring Workshop, EEB, University of Michigan 2024

ADDITIONAL SKILLS AND EXPERIENCE

Rope-Access Tree Climber. Instructor for Cornell Outdoor Education (2017-2021), volunteer climber for crow research collaboration between Cornell and Binghamton University (2020-21), and staff climber for New York State Hemlock Initiative (2019).
Scientific Illustrator proficient in pencil, ink, and watercolor. Member and exhibitor (2020) with the Guild of Natural Science Illustrators. Specialist in botanical subjects. Winner of 2024 American Society of Plant Taxonomists t-shirt design contest.
Athlete with Ann Arbor Roller Derby (2022-present), Team Michigan All Stars (2023-present), Lansing Roller Derby (2021-2022), and Ithaca League of Women Rollers (2010-2020). Eight-time Most Valuable Player awardee. Lead coach for the Ithaca League of Junior Rollers 2016-2021. Served on the Ann Arbor Roller Derby Board of Directors from 2023-2025.