

Curriculum Vitae
Marisa B. Szubryt

University of Oklahoma (OU)
Ecology and Evolutionary Biology track
marisabszubryt@ou.edu

School of Biological Sciences
Norman, Oklahoma, 73019
alternate e-mail: marisabszubryt@gmail.com

Education

Ph.D. Candidate, Ecology and Evolutionary Biology

Dissertation: Systematics of *Heterotheca* (Asteraceae: Astereae)

University of Oklahoma, School of Biological Sciences

May 2022 – present

M.S., Biological Sciences

Thesis: Systematics of North American Astereae (Asteraceae)

Southern Illinois University Carbondale, Biological Sciences Department

January 2018 – July 2020

B.S., Plant Biology

Thesis: Phylogenetics of *Euthamia* (Asteraceae: Astereae) and *Asteromyia euthamiae*
(Cecidomyiidae: Alycaulini)

Southern Illinois University Carbondale, Plant Biology Department (Systematics Specialization
with Chemistry Minor)

August 2014 – December 2017

Work and Research Experience

Herbarium Research Assistant (OU), January 2025 – August 2025

Herbarium Research Assistant (OU), May 2024 – August 2024

Graduate Research Assistant (OU) May 2023 – December 2023

Graduate Research Assistant (OU), May 2022 – December 2022

Biomanufacturing Operator I (Aldevron), January 2022 – May 2022

Laboratory Analyst (RMB Environmental Labs), April 2021 – December 2021

Administrative Assistant (Survivor Empowerment Center, Inc.), August 2020 – April 2021

Graduate Research Assistant (Southern Illinois University / SIU), August 2019 – July 2020

Summer Undergrad Laboratory Intern (Argonne National Laboratory), May 2017 – August 2017

Gene Discovery and Annotation Assistant (SIU), May 2016 – August 2016

Laboratory Assistant (SIU), February 2016 – December 2017

Undergraduate Research Assistant (SIU), September 2015 – August 2016

Wetland Ecology Field Assistant (SIU), March 2015 – August 2015

Greenhouse Assistant (SIU), August 2014 – December 2016

Teaching Experience

Graduate Teaching Assistant (OU)

Plant Systematics (PBIO 4534): Spring 2026 (Dr. Abby Moore)
Introduction to Microbiology (BIOL 3812): Fall 2025 (Dr. Kristen Savage-Ashlock)
Herbaria: Concepts and Application (BIOL 4970-052): Summer 2025 (Dr. Abby Moore)
Ecology, Evolution, and Diversity (BIOL 1134): Autumn 2024 (Dr. Paul Klawinski)
Plant Systematics (PBIO 4534): Spring 2024 (Dr. Abby Moore)
Introduction to Microbiology (MBIO 2815): Spring 2023 (Dr. Kristen Savage-Ashlock)

Graduate Teaching Assistant (SIU)

Ethnobotany (PLB117): Fall 2018 (Dr. Sedonia Sipes)
Elements of Plant Systematics (PLB408): Spring 2018, Spring 2019 (Dr. Kurt Neubig)
Quantitative Biogeography (ZOOL535): Fall 2019 (Dr. Jason Brown)

Undergraduate Volunteer Teaching Assistant (SIU)

Elements of Plant Systematics (PLB304): Spring 2017 (Dr. Kurt Neubig)

Publications

- Szubryt, MB.** 2023. *Haplopappus* Cass. (Astereae) *sensu* Hall: A polyphyletic conundrum revealed by plastid data. *Capitulum* 2(2): 33-50.
- Szubryt, MB.,** Skinner, K., O'Loughlin, E., Koval, J. Kemner, K., and Weisenhorn, PB. 2020. Wetland plant evolutionary history influences soil and endophyte microbial community composition. *BioRxiv*. doi: <https://doi.org/10.1101/2020.06.22.165738>
- Szubryt, MB.,** Urbatsch, LE., and Neubig, KM. 2020. Morphological, molecular, and biogeographic evidence for specific recognition of *Euthamia hirtipes* and *E. scabra* (Asteraceae, Astereae). *Systematic Botany* 45(3): 658-667.
- Szubryt, MB.** 2018. Wetland plant evolutionary history influences soil and endophyte microbial community composition. *Wetland Science & Practice* 35(4): 328-334.
- Geisler-Lee J., Liu X., Rang W., Raveendiran J., **Szubryt MB.**, Gibson DJ., Geisler M., and Cheng Q. 2017. Image-based analysis to dissect vertical distribution and horizontal asymmetry of conspecific root system interactions in response to planting densities, nutrients and root exudates in *Arabidopsis thaliana*. *Plants* 6(4): 46. doi:10.3390/plants6040046

Presentations

Szubryt, MB. and Moore, AJ. 2025. Target-capture sequence data reveal extensive incomplete lineage sorting within *Heterotheca* (Asteraceae: Astereae). University of Kansas Genomics Symposium, Lawrence, Kansas. May 9, 2025. Poster Presentation.

Szubryt, MB. and A.J. Moore. 2024. Towards a phylogenetically informed treatment of *Heterotheca* Cass. (Asteraceae: Astereae). University of Kansas Genomics Symposium, Lawrence, Kansas. May 17, 2024. Poster Presentation.

Szubryt, MB. and AJ. Moore Towards a phylogenetically-informed treatment of *Heterotheca* Cass. (Asteraceae: Astereae). Oklahoma Academy of Sciences, Chickasha, Oklahoma. November 10, 2023. Poster Presentation.

Dugger, M., **Szubryt, MB.**, and AJ. Moore. Morphological variability of *Monarda fistulosa* in Oklahoma. TORCH XII, Fort Worth Botanic Garden, Fort Worth, Texas. Poster Presentation.

Payne, G., **Szubryt, MB.**, Moore, AJ., and J. Messick. Phenological classification scheme comparison for *Cercis canadensis*. TORCH XII, Fort Worth Botanic Garden, Fort Worth, Texas. Poster Presentation.

Szubryt, MB. Systematics of the North American Astereae. Southern Illinois University, Carbondale, Illinois. June 23, 2020.

Szubryt, MB., Urbatsch, LE., Neubig, KM., and Y. Vargas-Rodriguez. Morphological, molecular, and biogeographic evidence for the recognition of *Euthamia hirtipes* and *E. scabra* (Asteraceae, Astereae). Botany Conference, Tucson, Arizona. July 31, 2019. PowerPoint Presentation.

Szubryt, MB., Urbatsch, LE., Neubig, KM., and Y. Vargas-Rodriguez. Morphological, molecular, and biogeographic evidence for the recognition of *Euthamia hirtipes* and *E. scabra* (Asteraceae, Astereae). The Evolution Conference, Providence, Rhode Island. June 19, 2019. PowerPoint Presentation.

Szubryt, MB. Molecular evolution research: What is it, why is it important, and why do scientific names change because of it? Sierra Club, Carbondale, Illinois. May 24, 2019. PowerPoint presentation.

Szubryt, MB. and J. Sellar. Utilizing Species Distribution Modeling via SDMTToolBox to locate endangered species: *Styrax grandifolius* Aiton. Illinois Native Plant Society southern chapter annual symposium. John A Logan College. Carterville, Illinois. April 6, 2019. Poster presentation.

Szubryt, MB. and J. Sellar. Conservation through distribution modeling: *Styrax grandifolius* Aiton. Illinois Native Plant Society southern chapter. Carbondale, Illinois. March 19, 2019. PowerPoint presentation.

Szubryt, MB., Neubig, KM., and LE. Urbatsch. Phylogenetics of Astereae (Asteraceae) in western North America. SIU Natural Sciences Student Research Symposium. Carbondale, Illinois. November 9, 2018. Poster presentation.

Szubryt, MB., Neubig, KM., and LE. Urbatsch. Phylogenetics of Astereae (Asteraceae) in western North America. SUPERB Summer Institute, Touch of Nature. Makanda, Illinois. August 8, 2018. Poster presentation.

- Szubryt, MB.**, Neubig, KM., and LE. Urbatsch. Phylogenetics of Astereae (Asteraceae) in western North America. Botanical Society of America. Rochester, Minnesota. June 23-25, 2018. Poster presentation.
- Szubryt, AN., Wasiak, AK., Toigo, KE., Kullgren, T., Etters, N., **Szubryt, MB.**, and FE. Anderson. Terrestrial gastropod diversity and abundance in nature preserves in Carbondale, Illinois. SIU Undergraduate Creative Activities and Research Forum. April 9, 2018. Poster presentation.
- Szubryt, MB.** What Happened to Liliaceae? Illinois Native Plant Society southern chapter. Carbondale, Illinois. January 16, 2018. PowerPoint presentation.
- Szubryt, MB.**, Urbatsch, LE., and KM. Neubig. Missouri Botanical Garden 64th Annual Symposium. Phylogenetics of *Euthamia* and its placement in the subtribe Solidagininae (Asteraceae). October 14, 2017. Saint Louis, Missouri. Poster presentation.
- Weisenhorn, PB., **Szubryt, MB.**, Cherry, J., and L. Battaglia. The sea comes marching in: Assisted plant migration through the microbial community landscape. Society for Ecological Restoration. Iguassu, Brazil. August 27-September 1, 2017.
- Szubryt, MB.**, Urbatsch, LE., and KM. Neubig. Phylogenetics of *Euthamia* and its placement in the subtribe Solidagininae (Asteraceae). Undergraduate Creative Activities and Research Forum, SIU. April 3, 2017. Poster Presentation.
- Szubryt, MB.**, Urbatsch, LE., and KM. Neubig. Phylogenetics of *Euthamia* and its placement in the subtribe Solidagininae (Asteraceae). Saint Louis Area Undergraduate Research Symposium. Carbondale, Illinois. April 1, 2017. Poster Presentation.
- Szubryt, MB.**, Urbatsch, LE., and KM. Neubig. Phylogenetics of *Euthamia* and fly-fungus symbionts. SIU Natural Sciences Student Research Symposium. Carbondale, Illinois. November 7, 2016. PowerPoint presentation.
- Szubryt, MB.**, Geisler, M., and J. Geisler-Lee. *Arabidopsis thaliana* conspecific root competition. Botanical Society of America Annual Conference. Savannah, Georgia. August 1, 2016. Poster presentation.
- Szubryt, MB.**, Geisler, M., and J. Geisler-Lee. *Arabidopsis thaliana* Conspecific root competition. SIU Undergraduate Creative Activities and Research Forum. Carbondale, Illinois. April 4, 2016. Poster Presentation.

Grants and Awards

OU Harwell Scholarship (\$1200). August 2025.
OU Summer Hill Fellowship (\$650). May 2025.
OU Excellence in Graduate Student Teaching Award (\$500). May 2024.
OU Kenneth & Joye Harwell Scholarship (\$2300). April 2024.
OU Dodge Family College Arts of Sciences (\$5000 / year for 5 years). March 2022.
SIU Master's Fellowship (\$1400 / month for 13 months). March 2019.
SIU Undergraduate Student Government Sponsorship (\$1225). October 2017.
SIU, Upper Mississippi Delta Biodiversity Scholarship, Graduate. April 2017.
SIU Delyte W. Morris Scholarship. April 2017.
Society of Wetland Scientists Undergraduate Research Grant (\$948). April 2017.
Botanical Society of America Undergraduate Student Research Award Grant (\$200). April 2016.
SIU Research-Enriched Academic Challenge Award Grant (\$1500). April 2016.
SIU Undergraduate Creative Activities and Research Forum, animal & plant biology runner-up poster presentation. April 2016.
SIU College of Science Dean's List. Fall semester 2014 – fall semester 2017.
SIU College of Science Scholarship, Plant biology department (\$750). August 2014.
SIU University Excellence Scholarship. August 2014.

Professional Societies

Botanical Society of America, January 2017 – December 2022 & December 2024 – present.
American Society of Plant Taxonomists: Student travel grant committee, August 2022 – present.
Society for the Study of Evolution, April 2019 – December 2019 & January 2025 – present.
Society of Herbarium Curators member, January 2018 – January 2020.
Illinois Native Plant Society board member, January 2018 – December 2019.
Green Earth board member, August 2017 – April 2021.
Society for the Study of Evolution member, March 2017 – March 2019.
Society of Wetland Scientists member, February 2017 – February 2018.
Keep Carbondale Beautiful, September 2014 – August 2017.
Southern Illinois University: Saluki science ambassadors, August 2014 – October 2017.