

Abrianna J. Soule

(517) 525-0124 | abrsoule@umich.edu

3180 Biological Sciences Building, 1105 N University Ave, Ann Arbor, MI 48109

EDUCATION

University of Michigan (Ann Arbor)

2022 - present

Ecology and Evolutionary Biology (PhD student)

Advisor: Dr. Marjorie Weber

Michigan State University (East Lansing)

2021 - 2022

Plant Biology (PhD student)

Advisor: Dr. Marjorie Weber

University of Michigan (Ann Arbor)

2014 - 2018

Ecology and Evolutionary Biology (B.S., High Honors), Minors in Environment and Gender & Health

Advisor: Dr. Mark Hunter

PUBLICATIONS

In review / revision:

Forrister, D. L., Endara, M. J., **Soule, A. J.**, Younkin, G. C., Mills, A. G., Lokvam, J., Dexter, K. G., Pennington, R. T., Kidner, C. A., Nicholls, J. A., Loiseau, O., Kursar, T. A., Coley, P. D. (2021, in review). Diversity and Divergence: Evolution of defense chemistry in the tropical tree genus *Inga*. *New Phytologist*.

Published / in press:

Walker, T. W. N., Alexander, J. M., Allard, P-M., Baines, O., Baldy, V., Bardgett, R. D., Capdevilax, P., Coley, P. D., van Damm, N. M., David, B., Defosse, E., Ernst, M., Fernandez, C., Forrister, D. L., Gargallo-Garriga, A., Jassey, V., Marr, S., Neumann, S., Pellissier, L., Peñuelas, J., Peters, K., Rasmann, S., Roessner, U., Salguero-Gómez, R., Sardans, J., Schrod, F., Schuman, M. C., **Soule, A. J.**, Sun, X., Uthen, H., Weckwerth, W., & Wolfender, J-L. (2022). Functional Traits 2.0: The power of the metabolome for ecology. *Journal of Ecology*, 110, 4-20. doi: 10.1111/1365-2745.13826

Endara, M. J., **Soule, A. J.**, Forrister, D. L., Dexter, K. G., Pennington, R. T., Nicholls, J. A., Loiseau, O. & Coley, P. D. (2021). The role of plant secondary metabolites in shaping regional and local plant community assembly. *Journal of Ecology*, 110, 34-45. doi: 10.1111/1365-2745.13646

Soule, A. J., Decker, L. E., & Hunter, M. D. (2020). Effects of diet and temperature on monarch butterfly wing morphology and flight ability. *Journal of Insect Conservation*, 24, 961-975. doi: 10.1007/s10841-020-00267-7

Coley, P. D., Endara, M. J., Ghabash, G., Kidner, C. A., Nicholls, J. A., Pennington, R. T., Mills, A. G., **Soule, A. J.**, Lemes, M. R., Stone, G. N., & Kursar, T. A. (2019). Macroevolutionary patterns in overexpression of tyrosine: An anti-herbivore defence in a speciose tropical tree genus, *Inga* (Fabaceae). *Journal of Ecology*, 107(4), 1620-1632. doi: 10.1111/1365-2745.13208

Decker, L. E., **Soule, A. J.**, de Roode, J. C., & Hunter, M. D. (2019). Phytochemical changes in milkweed induced by elevated CO2 alter wing morphology but not toxin sequestration in monarch butterflies. *Functional Ecology*, 33(3), 411-421. doi: 10.1111/1365-2435.13270

OTHER RESEARCH EXPERIENCE

University of Utah (Salt Lake City)*Laboratory Technician*

2018 - 2021

PI: Drs. Phyllis Coley and Tom Kursar

University of Michigan (Ann Arbor)*Research Assistant*

2015 - 2018

PI: Dr. Mark Hunter

SCHOLARSHIPS, FELLOWSHIPS, HONORS & AWARDS

BSA Graduate Student Research Award - \$1500	2022
Triemer Plant Biology Graduate Summer Fellowship - \$7500	2022
Paul Taylor Plant Biology Endowment - \$1000	2022
KBS LTER Graduate Fellowship - \$7200	2021
College of Natural Science Recruiting Fellowship - full year stipend + benefits	2021
Plant Sciences Supplemental Scholarship - \$2500	2021
NSF GRFP (Honorable Mention)	2021
James B. Angell Scholar	2018
LSA University Honors	2014, 2016, 2017, 2018

PRESENTATIONS

“Fight or flight? The influence of a changing climate on the defense and fitness of monarch butterflies.”
(2022). *MSU Ecology, Evolution, and Behavior Colloquium*. Virtual Talk.

“Combined effects of soil deposition and below-ground mutualism on plant defensive chemistry.”
(2021). *KBS LTER Graduate Fellows Symposium*. Virtual Lightning Talk.

“Resilience in plants and the community: Engaging with people in prisons and life-skills programs.”
(2020). *Ecological Society of America*. Virtual Lightning Talk.

REVIEWS*Ecology and Evolution*, August 2021*Science*, November 2020**COMMUNITY INVOLVEMENT & OUTREACH**

Diversity, Equity, and Inclusion (DEI) Committee - MSU

Graduate Student Representative

2021 - 2022

STEM Ambassadors Program (STEMAP) - Utah

Ambassador / Cohort Member

2020

American Civil Liberties Union (ACLU) - Utah

Volunteer

2019

Initiative to bring Science Programs to the Incarcerated (INSPIRE) - Utah

Presenter

2019 - 2020

Michigan Association for Women in Science (AWIS) - UMich

Mentor for Young Scientists' Expo

2017 - 2018

Zeta Omega Eta (ZOH) - UMich

Philanthropy Chair

2016 - 2018