

Arielle Biro

Yale University

Department of Ecology and Evolutionary Biology

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New Haven, CT 06511

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EDUCATION AND TRAINING

Ph.D. Candidate, Yale University

2017-2023 (expected)

Ecology and Evolutionary Biology

Advisor: A. Carla Staver

B.S, Binghamton University, Ecology and Evolutionary Biology

2012-2017

cum laude with Honored Distinction of Independent Work in Biological Sciences

Advisor: Matthew A. Parker

PUBLICATIONS

Biro, A., Batterman, S.A., Lucas, J.M., Stevens, N., Wurzburger, N., and Staver, A.C.

2023. Non-nodulating nitrogen fixation in *Colophospermum mopane*, a common southern African Fabaceae tree. *In Prep.*

Biro, A., Lucas, J.M., Yong, M.Y., Batterman, S.A., and Staver, A.C. 2023. Native soil

microbes buffer resource stress in savanna trees but are sensitive to drought. *In Prep.*

Biro, A., Yong, M.Y., Zhou, Y., Batterman, S.A., and Staver, A.C. 2023. Nitrogen and phosphorus availability intensifies tree-grass competition in savannas. *In Review.*

Zhou, Y., Biro, A., Yong, M.Y., Batterman, S.A., and Staver, A.C. 2022. Fire reduces soil enzyme activities and weakens microbially-mediated nutrient cycles: A global meta-analysis. *Ecology*. [10.1002/ecy.3807](https://doi.org/10.1002/ecy.3807)

Baskerville, M., Biro, A., Blazanin, M., Chang, C., Hallworth, A., Sonnert, N., Vila, J.C. and Sanchez, A. 2018. Ecological effects of cellular computing in microbial populations. *Natural Computing* 17(4), 811-822.

GRANTS AND FUNDING

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| 2022 | Yale Analytical and Stable Isotope Center Matching Funds |
| 2021 | YIBS Doctoral Dissertation Improvement Grant, Yale University |
| 2020-2021 | Sands Graduate Fellowship, Yale University |
| 2020-2021 | MacMillan International Dissertation Research Fellowship |
| 2020 | Millbrook Garden Club Research Scholarship |
| 2019 | Yale Analytical and Stable Isotope Center Matching Funds |
| 2019-2020 | Daniel C. Eaton Graduate Fellowship, Yale University |
| 2018-2019 | Henry Daggett Hooker Memorial Fellowship, Yale University |
| 2018 | MSI Institute Conference Travel Award, Yale University |
| 2017-2018 | Leo F. Rettger Fellowship, Yale University |
| 2016 | Undergraduate Award to Support Research and Creative Work, Binghamton University |

NOTABLE HONORS AND AWARDS

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| 2023 | First Place Best Research Talk, Yale Graduate Student Symposium |
| 2022 | First Place Best Judge Reviewed Poster, Yale Climate Day |
| 2022 | Third Place Best Peer Reviewed Poster, Yale Climate Day |
| 2017 | Distinguished Work in the Biological Sciences, Binghamton University |
| 2013, 2015-2017 | Harpur's Dean's List, Binghamton University |

SUPERVISION AND MENTORING EXPERIENCE

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| 2023 | Graduate fellow of YIBS SURES Program Undergraduates at Yale University. |
| 2022 | Graduate fellow of YIBS SURES Program Undergraduates at Yale University. |
| 2021 | Co-supervised lab work of undergraduates Chau Pham and Derek Fucich, Yale University. |
| 2020-2021 | Co-supervised the undergraduate senior thesis of Annli Nakayama, Yale University. |
| 2020 | Co-supervised the undergraduate research project of Anna Howard, Yale University. |

TEACHING EXPERIENCE

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| 2023 | Intro to Statistics, Yale University |
| 2023 | Intro to R, Yale University |
| 2023 | Searching and Reading the Literature Seminar, Yale University |
| 2022 | IPCC Report Seminar, Yale University |

2022 Intro to R and Statistics, Yale University
2021 Guest Lecturer, E&EB305: Plant Ecology, Yale University
2021 Teaching Fellow, E&EB305: Plant Ecology, Yale University
2020 Guest Lecturer, Virtual Summer Seminar Series: Spatial Data in R, Yale University
2019 Teaching Fellow, E&EB 220: General Ecology, Yale University
2018 Teaching Fellow, E&EB 220: General Ecology, Yale University
2018 Teaching Fellow, E&EB 225: Evolutionary Biology, Yale University
2017 Teaching Fellow, BIOL 104: Ecology & Evolutionary Biology, Yale University
2016 Teaching Assistant, BIOL 324: Animal Histology, Binghamton University

POSTER PRESENTATIONS AND CONFERENCE TALKS

2023 Yale E&EB Graduate Student Symposium, Yale University
2022 Yale E&EB Graduate Student Symposium, Yale University
2022 Climate Day, Yale University
2021 Sussex Symposium, Yale University
2021 Yale Climate Day, Yale University
2020 Savanna Science Network Meeting; Skukuza, South Africa
2018 E&EB Graduate Student Symposium, Yale University

PROFESSIONAL EXPERIENCE AND TRAINING

2020 Greenhouse Safety and Pesticide Application Safety Training, Marsh Botanical Gardens, Yale University
2020 Stable Isotopes in Ecology and Biogeochemistry (IsoCamp), University of New Mexico (cancelled due to COVID-19)
2019 Fundamentals in Teaching, Yale University
2015-2017 Research Assistant, Binghamton University

SERVICE AND SYNERGISTIC ACTIVITIES

2022-2023 YIBS SURES Program Graduate Fellow
2021 Committee Member of the YIBS Diversity, Equity, Inclusion and Justice Committee
2020 Leading organizer of the E&EB Anti-racism Graduate Group, Yale University
2017-2019 Graduate Student Social Coordinator at Yale University, E&EB
2018 Board Member of WISAY (Women in Science at Yale)

Manuscript reviewer: *Ecology and Evolution*, *Journal of Ecology*, *Scientific Reports*