

Adrienne Ernst
1000 Lake Cook Road • Glencoe, IL 60022
314-458-1644 • AErnst@u.northwestern.edu
AdrienneErnst.com

Education

Ph.D. Plant Biology and Conservation Northwestern University	2015-present
B.A. Biology and Environmental Studies, <i>summa cum laude</i> Knox College	June 2015

Honors and Awards

Garden Club of America Fellowship in Ecological Restoration	2019
Best Student Poster - Society for Ecological Restoration- Midwest Great Lakes	2019
Society for Ecological Restoration- Midwest Great Lakes Research Award	2018
Plant Biology and Conservation Award	2017
National Science Foundation Graduate Research Fellow	2016-present
Alvah Peterson Biology Prize for Outstanding Senior in Biology	2015
Elected as a Junior to Phi Beta Kappa	2014
Charles and Arvilla Timme Fellowship Award	2014
Dean's List at Knox College	2011-2015
Knox College Lincoln Scholar	2011-2015
Pfizer Special Scholar	2011-2015

Publications

Ernst, AR, RS Barak, AL Hipp, AT Kramer, HE Marx, DJ Larkin. 2020. The invasion paradox dissolves when using phylogenetic and temporal perspectives. *In review*. Journal of Ecology

Hipp, AL, MC Glasenhardt, ML Bowles, M Garner, BC Scharenbroch, EW Williams, RS Barak, A Byrne, **AR Ernst**, E Grigg, MG Midgley, H Wagueich, DJ Larkin. 2018. Effects of phylogenetic diversity and phylogenetic identity in a restoration ecology experiment. In: R Scherson, D Faith (eds) Phylogenetic Diversity: Applications and Challenges in Biodiversity Science. Springer.

To be submitted:

Ernst, AR, MC Glasenhardt, AT Kramer, DJ Larkin, HE Marx, RE Poulton Kamakura*, AL Hipp. Evaluating the potential of phylogenetic and functional diversity to promote invasion resistance in restorations. *To be submitted Feb 2021*. Journal of Ecology

De Vitis, M, K Havens, RS Barak, L Egerton-Warburton, **AR Ernst**, M Evans, JB Fant, AJ Foxx, K Hadley, J Jabcon, J O'Shaugnessey, S Ramakrishna, D Sollenberger, S Taddeo, R Urbina-Casanova, C Woolridge, L Xu, J Zeldin, AT Kramer. Why are some species missing in

restorations? A roadmap for diagnosing and treating dark diversity. *To be submitted Feb 2021*. Journal of Applied Ecology

*undergraduate student

Presentations

Ernst, AR, AL Hipp, AT Kramer. 2018. The role of phylogenetic diversity in invasion resistance and community stability: Implications for restoration. Ecological Society of America. New Orleans, LA.

Diaz, R**, **AR Ernst**, RE Poulton Kamakura. 2018. Invasive species: do relatives help or hinder? Chicago Public Schools Science Fair. Chicago, IL.

Hipp, AL, MC Glasenhardt, ML Bowles, M Garner, BC Scharenbrock, EW Williams, RS Barak, **AR Ernst**, MG Midgley, DJ Larkin. 2018. Effects of phylogenetic diversity and phylogenetic identity in a restoration ecology experiment. Botanical Society of America. Rochester, MN.

Karimi, N, AL Hipp, MC Glasenhardt, EW Williams, RS Barak, **AR Ernst**. 2019. Effects of phylogenetic and trait diversity in a restoration ecology experiment. Botanical Society of America. Tucson, AZ.

**high school student

Posters

Knauf, K*, **AR Ernst**. 2020. Phylogenetic diversity – a potential indicator of invasion resistance. Botanical Society of America.

Ernst, AR, AL Hipp, RE Poulton Kamakura**, and AT Kramer. 2019. Going beyond richness: the effect of phylogenetic and functional diversity on invasion resistance. Society for Ecological Restoration – Midwest Great Lakes. Pella, IA. –*Best student poster*

Knauf, K*, **AR Ernst**. 2019. Phylogenetic diversity – a potential indicator of invasion resistance. Society for the Advancement of Chicanos/Hispanics and Native Americans in Science. Honolulu, HI.

Poulton Kamakura, RE*, **AR Ernst**, C Pfister, AT Kramer. 2018. Propagule pressure and the establishment success of nonlocal species. University of Chicago Honors Symposium. Chicago, IL.

Poulton Kamakura, RE*, **AR Ernst**. 2018. The effects of propagule pressure and phylogenetic diversity on invasive species establishment success. Ecological Society of America. New Orleans, LA. –*1st place student poster in Restoration section*

**undergraduate student

Teaching Experience

Teaching Certificate Center for the Integration of Research, Teaching, and Learning, Northwestern University	2021
Teaching Assistant Evolutionary Processes, Northwestern University	2020
Teaching Assistant Plant Evolution and Diversity, Northwestern University	2020
Teaching Assistant Cell Biology Lab, Northwestern University	2017
TRIO Achievement Program Tutor in Biology and Environmental Studies, Knox College	2014-2015
Center for Teaching and Learning Tutor in Environmental Studies, Knox College	2013-2015
Teaching Assistant Challenges of Sustainability First Year Preceptorial, Knox College	2013

Mentoring Experience

Lake Forest College Internship Mentored one undergraduate student fall 2019
Chicago Public Schools Science Fair Mentored one high school student fall 2018
University of Chicago Honors Thesis Served as research adviser for student 2017-2018
Chicago Botanic Garden Research Experience for Undergrads Mentored two undergraduate students summer 2017 and summer 2019
Chicago Botanic Garden College First Mentored two high school students summer 2017 and summer 2019

Research Experience

Honors Thesis, Knox College; “Development of a pattern language for restoration ecology” advised by Dr. Stuart Allison 2014-2015
Ford Fellowship, Knox College; “The potential of pattern language for restoration ecology” advised by Dr. Stuart Allison Summer 2014
Mellon Community Based Research Award, Knox College, “Characterization of the local food economy in Galesburg, Illinois: the potential for local food market expansion” advised by Dr. Peter Schwartzman 2012
Tyson Environmental Research Fellowship, Washington University in St. Louis, “Pollinator preference in an urban restored savanna” advised by Steve Buback 2010

Outreach Experience

Invasive Plant Association of Wisconsin Newsletter “Testing native diversity as a tool against invasive species” (to be released 2021)
Downers Grove North High School Designed data collection activity at Morton Arboretum for AP Biology classes 2019
Chicago Botanic Garden Science Festival 2018
Chicago Wilderness Prairie Climate Change Adaptation Plan Advisory board member 2018
Mastering Plant Science Team Ecological Society of America 2017-2018

Academic Service

Graduate Leadership and Advocacy Council	Department Representative	2019-2020
Professional Development Committee	Plant Biology and Conservation Department	2019
Safe and Welcoming Environment Chair	Plant Biology and Conservation Department	2018
Journal Club Chair	Plant Biology and Conservation Department	2017-2018
Recruitment Chair	Plant Biology and Conservation Department	2016-2017

Reviewer

Journal of Ecology
Natural Areas Journal

Affiliations

Phi Beta Kappa
Society for Ecological Restoration