

Kelsey A. Martinez

PhD Candidate in Biology

Syracuse University

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Education

Knox College, Galesburg, IL: BA, Environmental Studies

Honors: Magna cum Laude, Phi Beta Kappa

Southern Illinois University, Carbondale, IL: MS, Plant Biology 2014, advised by Dr. David Gibson

Syracuse University, Syracuse, NY: Biology PhD candidate, advised by Dr. Jason Fridley, degree in progress

Publications

Martinez KA, Gibson DJ, Middleton BA (2015) Core-satellite species hypothesis and native versus exotic species in secondary succession. *Plant Ecology*, 216: 419-427.

Martinez KA, Fridley JD (2018) Acclimation of leaf traits in seasonal light environments: are non-native species more plastic? *Journal of Ecology*, in press.

Fellowships & Awards

Southern Illinois University: Masters Fellow (2012-2013) and Dept. of Plant Biology TA (2013-2014)

NSF EAPSI Japan 2016 Fellow: "Ecophysiology of deciduous forest invasions: variation in leaf traits home and away"; Collaboration with Dr. Kouki Hikosaka at Tohoku University, Sendai, Japan

Syracuse University: McNair Fellow 2014-2015

STEM Fellow 2016-2017 & 2018-2019

Undergraduate Capstone Research Project

"The impact of climate change on first flowering date of spring wildflowers at Green Oaks, west-central Illinois"

Other Undergraduate Research Project: "The Effects of Climate Change on Upland Rainforest Edge Habitat and Fragments in the Atherton Tablelands of Northern Queensland"

M.S. Thesis: Population Dynamics and Invasibility of Native and Exotic Grass Species in an Old Field

Major advisor: Dr. David J. Gibson

Research skills developed: Scientific process and writing, plant ID, light and soil moisture meter use, statistical (SAS), soil nitrogen analysis, oral presentation

Teaching Experience

General Biology

Graduate Teaching Assistant, Southern Illinois University

August 2013 – May 2014

Global Change Biology, Syracuse University

Graduate Teaching Assistant

August 2015 – December 2015

General Biology, Syracuse University

Graduate Teaching Assistant

January 2016 – May 2016

Undergraduate Honors Research Advising

Lauren Woolhiser, B.S. Syracuse '18

2017-present

Other Field Experience

Green Oaks Term, Knox College

March 2010 – May 2010

Assisted with stewardship of Knox College Biological Field Station (experience with brush clearing, trail maintenance, prairie burns, and invasive species removal), learned plant ID skills

McHenry County Conservation District (Northern Illinois)

Field Station and Natural Resource Management Intern

May 2011 – August 2011

Assisted with invasive species removal, brush clearing, woody plant identification, rare plant monitoring, bird surveying; obtained herbicide applicator license
School for Field Studies – Yungaburra, Queensland January 2011 – May 2011
Took courses in rainforest ecology and management, completed a comprehensive research project, assisted with rainforest corridor restorations

Affiliations & Positions

Member of Phi Beta Kappa	2012-present
Vice President of SIUC Plant Biology Graduate Student Organization	2013-2014
President of SIUC Restoration Club	2013-2014
Member of Sigma Xi	2015-present
Vice President of Syracuse University Biology Graduate Student Organization	2017-present
Senator – Syracuse University Graduate Student Senate	2017-present

Other Skills

Proficient with linear models, mixed models, multivariate statistics, phylogenetic analyses, and Bayesian modeling (JAGS) in R
4 field seasons of experience using IRGAs to measure photosynthetic responses
Ability to use and troubleshoot NC autoanalyzers
Experience with mixed models in SAS
Ability to produce publication quality figures in R (ggplot and base)
Experience with soil analyses and wetland delineation
Familiar with Adobe Photoshop
Highly confident in botanical ID skills for Eastern North American vascular plants