

Kelsey A. Martinez

PhD Candidate in Biology

Syracuse University

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Education

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

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

Knox College, Galesburg, IL: BA, Environmental Studies

Honors: Magna cum Laude, Phi Beta Kappa

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.

Fellowships & Awards

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 & 2017-2018

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

M.S. Thesis Topic: 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

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"

Teaching Experience

General Biology

Graduate Teaching Assistant at Southern Illinois University August 2013 – May 2014

Global Change Biology

Graduate Teaching Assistant August 2015 – December 2015

Assisted with planning and execution of laboratory curriculum

General Biology

Graduate Teaching Assistant at Syracuse University January 2016 – May 2016

Administered weekly laboratory exercises, wrote weekly evaluations, graded lab activities

Field Experience

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

Green Oaks Term

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

Affiliations

Vice President of SU Biology Graduate Student Organization

2017-2018

President of SIUC Restoration Club

2013-2014

Vice President of SIUC Plant Biology Graduate Student Organization 2013-2014

Member of Phi Beta Kappa

Member of Sigma Xi 2015-present

Other Skills

Proficient with linear, linear mixed, NMDS, maximum likelihood and optimization analyses in R

Ability to produce publication quality figures in R and Sigma Plot

Highly experienced with Bayesian analyses in R
mineralizable soil N analyses, and wetland delineation

Familiar with Adobe Photoshop

Knowledgeable about Eastern North American plant identification