

Samantha N. Miller

Northern Arizona University
Center for Ecosystem Science & Society
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EDUCATION

Graduate Coursework in Interdisciplinary Ecology (2010-2013)

University of Florida, Gainesville, FL

GPA: 3.91/4.0

B.A. in Environmental Science (2010)

Carthage College, Kenosha, WI

Thesis Title: Effects of *Rhamnus cathartica* (common buckthorn) stand age on decomposition

Advisors: Drs. Tracy B. Gartner and Deanna Byrnes

GPA: 3.76/4.0 – *Magna Cum Laude*

RESEARCH and WORK EXPERIENCE

Research Coordinator: Plant and ecosystem ecology

Supervisor: Dr. Michelle C. Mack

Northern Arizona University, 2015-Present

- Coordinates research in the lab and field to prioritize completion of multiple projects
- Trains and supervises undergraduate lab assistants
- Maintains lab inventory & equipment, oversees hazardous waste management, responsible for budgeting

Biological Scientist: Plant and ecosystem ecology

Supervisor: Dr. Michelle C. Mack

University of Florida, 2012-Present

Research Assistant: Ecology and management of an invasive plant (*Lygodium japonicum*)

Supervisor: Dr. Kimberly K. Bohn

University of Florida, 2010-2012

Environmental Science Fellow, Carthage College, September 2009 – May 2010

Environmental Science Student Assistant, Carthage College, September 2008 – May 2010

Supervisor: Dr. Tracy B. Gartner

Summer Undergraduate Research Experience (S.U.R.E.), Carthage College, Summer 2009

Title: Initiating a long-term invasive species monitoring program

Advisors: Drs. Tracy B. Gartner and Scott Hegrenes

Independent Research, Carthage College, Spring 2009

Title: Invasive species interactions: potential relationships between common buckthorn, prickly ash, and nightcrawlers and their effects on decomposition

Advisor: Tracy B. Gartner

TEACHING, OUTREACH, and SERVICE

Center for Ecosystem Science and Society Recruitment Planning Committee, 2015-present

Center for Ecosystem Science and Society Technical Team Committee, 2015-2016

Center for Ecosystem Science and Society Website Committee, 2015-2016

Supplemental Instructor: Introduction to Environmental Science, Carthage College, Fall 2009

Environmental Science Faculty Search Committee, Carthage College, Fall 2009

Coffee at the Clausen, Carthage College, October 2009

Presented invasive species research and promoted awareness to the Carthage College Board of Trustees and other influential community members

Chase's Food, Folks and Spokes, Kenosha, Wisconsin, July 2009

Designed educational pamphlets and maintained an educational exhibit targeted at teaching children about invasive species

Alumni College, Carthage College, June 2009

Assisted with preparing a short class for Carthage College alumni designed to increase public awareness of invasive species

PUBLICATIONS

Holland-Moritz, H., J. Stuart, L. R. Lewis, **S. Miller**, M. C. Mack, S. F. McDaniel, N. Fierer. Submitted. Novel bacterial lineages associated with boreal moss species.

POSTER PRESENTATIONS (as presenter only)

Miller, S. N., K. K. Bohn, and M. Thetford. August 2012. Effect of herbicide treatments on above- and belowground biomass of Japanese climbing fern. 97th Annual Ecological Society of America (ESA) Meeting, Portland, OR.

Ulrich, J. L., **S. N. Miller**, K. K. Bohn, M. Thetford, and E. C. Pieteron. August 2011. Effect of herbicide treatments on germination of Japanese climbing fern spores and survival of fern gametophytes. 96th Annual ESA Meeting, Austin, TX.

Miller, S. N. and T. B. Gartner. August 2010. Effects of *Rhamnus cathartica* (common buckthorn) stand age on decomposition. 95th Annual ESA Meeting, Pittsburgh, PA.

Miller, S. N. and T. B. Gartner. April 2010. Effects of *Rhamnus cathartica* (common buckthorn) stand age on decomposition. 24th National Conference on Undergraduate Research, Missoula, MT.

Pichler, M. C., **S. N. Miller**, T. B. Gartner, and S. G. Hegrenes. March 2010. Initiating a long-term monitoring program of aquatic and terrestrial invasive species in Kenosha County, Wisconsin. 34th Annual American Water Resources Meeting – Wisconsin Section, Appleton, WI. *Award for Undergraduate Excellence

Miller, S. N., T. B. Gartner, and S. G. Hegrenes. October 2009. Initiating a long-term monitoring program of invasive riparian plants in Kenosha County, Wisconsin. Midstates Consortium for Mathematics and Sciences, St. Louis, MO.

Gartner, T. B., C. Karlovitz, A. Petrovic, A. Eigner, and **S. Miller**. August 2009. Invasibility of *Rhamnus cathartica*: aboveground and belowground factors influencing native plant decline. 94th Annual ESA Meeting, Albuquerque, NM.

Pichler, M. C., **S. N. Miller**, T. B. Gartner, and S. G. Hegrenes. July 2009. Initiating a long-term monitoring program of invasive riparian plants in Kenosha County, Wisconsin," Carthage College Summer Undergraduate Research Experience Poster Session, Kenosha, WI.

ORAL PRESENTATIONS (as presenter only)

Miller, S. N., K. K. Bohn, and M. Thetford. April 2012. Effect of herbicide treatments on above- and belowground biomass of *L. japonicum*. Florida Chapter of The Wildlife Society & Florida Exotic Pest Plant Council Conference, Ocala, FL.

Miller, S. N. May 2010. Decomposition of juvenile and mature *Rhamnus cathartica* (common buckthorn) leaf litter. Carthage College Natural Science Colloquium, Kenosha, WI.

Miller, S. N. April 2010. Effects of *Rhamnus cathartica* (common buckthorn) stand age on decomposition. Carthage College Environmental Science Senior Thesis Presentations, Kenosha, WI. *Selected to present at **Thesis Honors Day**

Miller, S. N. March 2010. Life as an Environmental Science Major at Carthage. Carthage College Math & Science Scholarship Competition, Kenosha, WI *Selected **student representative**

Eigner, A. and **S. N. Miller**. May 2009. Invasive species interactions: potential relationships among common buckthorn, prickly ash, and nightcrawlers. Carthage College Natural Science Colloquium Series, Kenosha, WI.

HONORS and ACTIVITIES

Environmental Science Outstanding Senior Award (2010), Academic Travel Grant – Fall 2009 (\$200) and Spring 2010 (\$250), Academic Honors Scholarship, Kesselring Scholarship, Dean's List (2006-2010), Beta Beta Beta (Honorary Biology Fraternity), Alpha Lambda Delta (Freshman Academic Honors Fraternity), Flame Leadership Program (2006, 2007)

PROFESSIONAL AFFILIATIONS

Ecological Society of America (member since 2009), Sigma Xi (associate member since 2010)