

PhD Candidate, Program in Ecology, University of Wyoming

EDUCATION

University of Wyoming, Laramie, WY

PhD. Candidate, Program in Ecology

Dave Williams' Lab, Fall 2008 to present

Hampshire College, Amherst MA

Bachelor of Arts, May 2007

Concentration: Ecology and Climate Change

Senior Thesis: "Soil Respiration in Elevated CO₂ Environments; An Original Study on a Brackish Marsh and Synthesis of Results from Three Forested FACE sites"

The Center for Northern Studies (Sterling College), Wolcott, VT

Semester field study, Fall 2005

RESEARCH INTERESTS

- Elevated carbon dioxide and temperatures effects on plant physiology
- Utilizing stable isotopic techniques to understand plant processes

HONORS/AFFILIATIONS

- Program in Ecology Fellowship, 2008-2009 academic year
- Member, Ecological Society of America, Fall 2008 to present
- NSF Research Experience for Undergraduate Fellowships, summers 2005 + 2006

RELATED EXPERIENCE

Department of Forestry, University of Wisconsin, Thompson, Manitoba

Boreal Warming Field Site Manager, June 2007 to June 2008

- Manage and maintain a complex electronic data-logging system
- Routine upkeep of extensive physical infrastructure, including greenhouse system
- Regular measurement and compilation of on-site ecophysiological data

Smithsonian Environmental Research Center (SERC), Edgewater, Maryland

NSF REU Research Fellow, January 2007

- Summer biomass harvest data processing, including root analysis
- General laboratory work

Smithsonian Environmental Research Center (SERC), Edgewater, Maryland

NSF REU Research Fellow, Summer 2006

- Researched the effects of elevated carbon dioxide and nitrogen on a coastal marsh, under the guidance of Dr. Patrick Megonigal
- Completed a project titled: *Soil Respiration of a Coastal Marsh under Elevated CO₂ and Nitrogen Treatments*

Dept. of Ecology and Evolutionary Biology, University of Kansas, Lawrence KS

NSF REU Research Fellow, Summer 2005

- Designed a research project on tree ecophysiology, under the guidance of Dr. Joy Ward
- Completed a project titled: *Population-level Responses of White Ash to Inter-annual Climate Variation Within a Common Garden in Kansas*
- Gained familiarity with techniques in dendrochronology and isotope chemistry

PUBLICATIONS

Marchin, Renee M., Sage, Emma L., and Ward, Joy K. 2008. Population-level variation of *Fraxinus americana* (white ash) is influenced by precipitation differences across the native range. *Tree Physiology* 28: 151–159.