

## Henry D. Adams

2713 E. 20th St.  
Tucson, AZ 85716  
(520) 621 8220  
henry@email.arizona.edu

Ecology & Evolutionary Biology  
University of Arizona  
1041 E. Lowell St., BSW #310  
Tucson, AZ 85721

**OBJECTIVE** A career in ecology research.

**EDUCATION** **University of Arizona** Tucson, AZ  
Doctor of Philosophy in Ecology & Evolutionary Biology  
Anticipated in December 2011

**Northern Arizona University** Flagstaff, AZ  
Master of Sciences in Forestry  
December 2003  
GPA: 3.59/4.00

**Alfred University** Alfred, NY  
Bachelor of Arts in Biology and Environmental Studies  
December 1999  
GPA: 3.41/4.00

**EXPERIENCE** **Ecology & Evolutionary Biology, University of Arizona** Tucson, AZ  
2007 – Present Ecohydrology Fellow

Conducting research on a series of projects investigating the temperature sensitivity and physiological mechanism of drought-induced tree mortality in order to predict global change impacts on woody plant-dominated ecosystems.

2004 – 2006 **INSTAAR, University of Colorado** Boulder, CO  
Professional Research Assistant

Conducted field sampling, dated and measured tree increment cores for climate, stream flow, and stand age reconstructions, and compiled and analyzed data for several projects.

2001 – 2003 **Northern Arizona University** Flagstaff, AZ  
Graduate Assistant

Conducted research on the differences in tree drought sensitivity among species, elevations, and soils using tree-rings and foliar  $\delta^{13}\text{C}$  composition.

- 1999                    **SUNY Oneonta Biological Field Station** Cooperstown, NY  
 Research Intern  
 Organized field project, conducted and presented research on the effects of aspect on forest edge communities along a power line corridor.
- 1998                    **Lehigh University** Bethlehem, PA  
 Research Experience for Undergraduates Intern  
 Developed experimental plan, conducted experiments, and presented research on the effects of UV radiation on photoinhibition in algae.

## **AWARDS/HONORS**

- 2008** AGU Fall Meeting Outstanding Student Paper Award (Hydrology Section)  
**2008** University of Arizona, Graduate & Professional Student Council Travel Grant  
**2007-10** Ecohydrology Fellowship, USDA Training Grant 2005-38420-15809

## **PUBLICATIONS**

- Adams HD**, Guardiola-Claramonte M, Barron-Gafford GA, Villegas JC, Breshears DD, Zou CB, Troch PA, Huxman TE. 2009. Temperature sensitivity of drought-induced tree mortality: Implications for regional die-off under global-change-type drought. *Proceedings of the National Academy of Sciences, USA*. In Review.
- Breshears DD, Huxman TE, **Adams HD**, Zou CB, Davison JE. 2008. Commentary- Vegetation synchronously leans upslope as climate warms. *Proceedings of the National Academy of Sciences, USA* 105: 11591-11592.
- McDowell NG, **Adams HD**, Bailey JD, Kolb TE. 2007. The role of stand density on growth efficiency, leaf area index, and resin flow in southwestern ponderosa pine forests. *Canadian Journal of Forest Research* 37:343-355.
- McDowell NG, **Adams HD**, Bailey JD, Hess M, Kolb TE. 2006. Homeostatic maintenance of ponderosa pine gas exchange in response to stand density changes. *Ecological Applications* 16:1164-1182.
- Adams HD** and Kolb TE. 2005. Tree growth response to drought and temperature in a mountain landscape in northern Arizona, USA. *Journal of Biogeography* 32:1629-1640.
- Adams HD** and Kolb TE. 2004. Drought responses of conifers in ecotone forests of northern Arizona: tree ring growth and leaf  $\delta^{13}\text{C}$ . *Oecologia* 140:217-225.

## **PRESENTATIONS.**

- Adams HD, Breshears DD, Guardiola-Claramonte M, Zou, CB, Huxman TE. Global change enhances vegetation vulnerability to drought: Warmer drought kills pinyon pines faster. Talk. Fall meeting of the American Geophysical Union. December 15<sup>th</sup>-19<sup>th</sup>, 2008. Moscone Center, San Francisco, CA.
- Adams HD, Zou, CB, Breshears DD, Guardiola-Claramonte M, Cobb NE, Huxman TE, Troch, PA. Experimental determination of thresholds of tree mortality in response to global-change-type drought: Accounting for root volume in transplant manipulations to facilitate cross-study comparisons. Poster. Annual meeting of the Ecological Society of America. August 3<sup>rd</sup>-8<sup>th</sup>, 2008. Midwest Airlines Center, Milwaukee, WI.
- Adams HD, Villegas JC, Guardiola-Claramonte M, Barron-Gafford GA, Breshears DD, Zou, CB, Huxman TE. 2007. Biosphere 2: Testing the Influence of Global Change Dynamics on Key Interactions Between Plants and Water. Poster. Integrating Science and Management on the Colorado Plateau. October 30<sup>th</sup>-31<sup>st</sup>, 2007 at Northern Arizona University, Flagstaff, AZ
- Adams, HD and Kolb TE. 2003. Using radial growth and foliar  $\delta^{13}\text{C}$  as measures of drought sensitivity in trees at ecotone communities in northern Arizona. Poster. Annual meeting of the Ecological Society of America. August 3<sup>rd</sup>-8<sup>th</sup>, 2003. Savannah International Trade & Convention Center, Savannah, GA.
- Adams, HD and Kolb TE. 2003. Tree radial growth response to climate for different species, elevations, and environments in northern Arizona. Poster. 2003 Southwest Drought Summit. May 12<sup>th</sup>-13<sup>th</sup>, 2003 at Northern Arizona University, Flagstaff AZ.