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**EDUCATION**

Ph.D. Ecology and Evolutionary Biology, University of Michigan, *expected 2009*.  
Michigan Teaching Fellow, May 2007.  
B.A., Biology, College of Creative Studies. University of California, Santa Barbara, 2000.  
B.A., Art History. University of California, Santa Barbara, 2000.

**TEACHING EXPERIENCE**

Graduate Student Instructor (GSI), Aquatic Ecology Lab with George Kling, University of Michigan; Winter 2007.  
Graduate Student Mentor, GSI Training Course with Marc Ammerlaan, University of Michigan; Fall 2005.  
GSI, Global Change I with Ben Van der Pluijm, University of Michigan; Fall 2005.  
GSI, Introductory Microbiology with Marc Ammerlaan, University of Michigan; Fall 2004.  
GSI, Introductory Biology. University of Michigan; Fall 2002, Winter 2003 and 2005.

**AWARDS AND FELLOWSHIPS**

EPA STAR Fellowship, 2007- current.  
Whittaker Research Mentoring Fellowship, Univ. Michigan, 2007.  
Edwin H. Edwards Endowed Fellowship, Univ. Michigan, 2006-2007.  
Helen Olson Brower Endowed Fellowship for Environ. Science, Univ. Michigan 2004-2006.  
U.M. Rackham Graduate School Discretionary Funds, Winter 2004.  
EEB Departmental Fellowship, 2003-2004.  
EEB Block Grant, 2003-2004, 2007-2008.  
Graduated with Highest Honors, UC Santa Barbara, 2000.

**PROFESSIONAL EXPERIENCE**

Workshop: "High Latitude Terrestrial and Freshwater Ecosystems: Interactions and Response to Environmental Change" in Abisko, Sweden 11 - 14 September, 2007.  
Workshop: "LTER Synthesis Workshop: Terrestrial and Aquatic Linkages" at Kellogg Biological Station, Michigan, 19-22 April 2007.  
Research Experience for Undergraduates, Nyanza Project, Kigoma, Tanzania (University of Arizona, Tucson), Advisor: P.D. Plisnier; Summer 2000.  
Independent Research Project, Mono Lake, Advisor: John Melack (University of California, Santa Barbara); 1999-2000.

Research Assistant, Mono Lake Project, Sierra Nevada Aquatic Research Laboratory (University of California, Santa Barbara); Summer 1999.

Lab Assistant, Soil Ecology Lab of Josh Schimel, Marine Science Institute (University of California, Santa Barbara); 1998-1999.

### **PUBLICATIONS – peer reviewed**

- Adams, H.E.**, B.C. Crump, and G.W. Kling. *In prep.* Temperature controls on aquatic bacterial activity and community dynamics. *Applied and Environmental Microbiology*.
- Ball, B.A., J.S. Kominoski, **H.E. Adams**, S.E. Jones, E.S. Kane, T.D. Loecke, W.M. Mahaney, J.P. Martina, C.M. Prather, T.M.P. Robinson, C.T. Solomon. *In prep.* Putting the pieces together: global environmental changes and terrestrial- aquatic linkages. *Frontiers in Ecology*.
- Crump, B.C., **H.E. Adams**, J.E. Hobbie, and G.W. Kling. 2007. Biogeography of bacterioplankton in lakes and streams of an arctic tundra catchment. *Ecology* 88(6): 1365-1378.
- Judd K.E., **H.E. Adams**, N.S. Bosch, J.M. Kostrzewski, C.E. Scott, B.M. Schultz, D.H. Wang, and G.W. Kling. 2005. A case history: Effects of mixing regime on nutrient dynamics and community structure in Third Sister Lake, Michigan during late winter and early spring 2003. *Lake and Reservoir Management*. 21(3): 316-329.
- Jellison, R., **H.E. Adams**, and J.M. Melack. 2001. Re-appearance of rotifers in hypersaline Mono Lake, California during a period of rising lake levels and decreasing salinity. *Hydrobiologia*. 466(1): 39-43.

### **PUBLICATIONS – technical reports**

- Adams, H.E.** and R.M. Charles. 2000. A preliminary investigation of lake stability and chemical analysis of deep waters of the Kigoma sub-basin (northern basin) and the Kalemie sub-basin (southern basin) of Lake Tanganyika. Nyanza Project 2000 Annual Report. Tucson, Arizona. [http://www.geo.arizona.edu/nyanza/publications/annual\\_reports.html](http://www.geo.arizona.edu/nyanza/publications/annual_reports.html)

### **PUBLISHED ABSTRACTS, PRESENTATIONS, AND POSTERS**

- Adams, H.E.**, B.C. Crump, and G.W. Kling. 2008. Downstream dispersal and activity of bacteria. Presentation for American Society for Limnology and Oceanography, Summer Meeting, 9-13 June 2008, St. John's, Newfoundland. p. 1.
- Adams, H.E.**, B.C. Crump, and G.W. Kling. 2006. Community mediation of environmental response: Bacterial physiological adaptation versus structural shifts in community composition. Poster for Long Term Ecological Research, All-Scientists Meeting, 20-23 September 2006, Estes Park, Colorado. <http://www.lternet.edu/asm/2006/posters/schedule.php>
- Adams, H.E.**, B.C. Crump, and G.W. Kling. Bacterioplankton community composition mediates the effect of temperature and nutrients on bacterial activity. Presentation for American Society for Limnology and Oceanography, Summer Meeting, 4-9 June 2006, Victoria, B.C., p. 4.
- Crump, B.C., **H.E. Adams**, J.E. Hobbie, and G.W. Kling. Mechanisms of spatial variability in bacterioplankton community composition among lakes and streams of an arctic tundra

watershed. Poster for American Society for Limnology and Oceanography, Summer Meeting, 4-9 June 2006, Victoria, B.C., p. 28.

Crump, B.C., J.E. Hobbie, **H.E. Adams**, and G.W. Kling. Shifts in bacterioplankton community composition across a landscape: influence of bacterial production and lake residence time. Poster for International Society of Microbial Ecology, ISME-10, 22-27 August 2004, Cancun, Mexico, p. 304.

### **SEMINARS AND TALKS PRESENTED**

**Adams, H.E.**, B.C. Crump, and G.W. Kling. Downstream processing of terrestrially-derived carbon by bacteria in lakes and streams in an arctic catchment, Alaska, USA. Presentation for "High Latitude Terrestrial and Freshwater Ecosystems: Interactions and Response to Environmental Change" Workshop, 11 - 14 September, 2007, Abisko, Sweden.

**Adams, H.E.** Metacommunity Dynamics in Bacterioplankton. Department of Ecology and Evolutionary Biology, 17 April 2007, University of Michigan.

**Adams, H.E.**, B.C. Crump, and G.W. Kling. Carbon versus temperature limitation of aquatic bacteria across an arctic lake district; Effects of temperature, substrate, and community composition on aquatic bacterial production; Community mediated controls of temperature and nutrients on bacteria; Activity of transient versus resident bacterioplankton. Posters for Arctic LTER Annual Planning Meeting, 2004-2007.

**Adams, H.E.** Does bacterial diversity matter? Abiotic factors versus community composition as controls on aquatic bacterial productivity. Department of Ecology and Evolutionary Biology, 15 March 2005, University of Michigan.

**Adams, H.E.** Microbial Ecology: Aquatic and Terrestrial Habitats. Guest Lecture for Introductory Microbiology, 29 October 2004, University of Michigan.

**Adams, H.E.** Spatial and temporal variability of aquatic bacterial productivity. Department of Ecology and Evolutionary Biology, 13 November 2003, University of Michigan.

### **SERVICE AND OUTREACH**

Graduate Representative, Graduate Affairs Committee, Department of Ecology and Evolutionary Biology; 2007-2008.

Science Fair Mentor, Scarlett Middle School, Ann Arbor, Michigan; Winter 2007.

Science Fair Judge, Grade 6, Scarlett Middle School, Ann Arbor, Michigan; Winter 2007.

Forensics Science Night Volunteer, Mitchell Elementary School, Ann Arbor, Michigan; 2007

President, GREEBs (Graduate Researchers in Ecology and Evolutionary Biology), University of Michigan; 2006-2007.

Graduate Representative, Admissions Committee, Department of Ecology and Evolutionary Biology, University of Michigan; 2005-2006.

High School AP Biology Tutor, 2005-2006.

Graduate Representative, Executive Committee, Department of Ecology and Evolutionary Biology, University of Michigan; 2004-2005.

**PROFESSIONAL SOCIETIES**

American Association for the Advancement of Science  
American Society of Limnology and Oceanography  
American Society of Microbiology

**REFERENCES**

Dr. George Kling, Ph.D. advisor  
Department of Ecology and Evolutionary Biology, University of Michigan  
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