

## Jennifer Anne Hamel

Division of Biological Sciences  
University of Missouri  
105 Tucker Hall, Columbia MO 65211-7400

Tel: 573.882.4189  
FAX: 573.882.0123  
Email: JAHamel@mizzou.edu

### EDUCATION

2005 – present Ph.D. Candidate, Biological Sciences, University of Missouri  
2003 – 2005 Post-baccalaureate coursework, University of North Carolina, Asheville  
May 2004 B.H.A. (Fine Arts and Russian Studies), Carnegie Mellon University

### AWARDS and FUNDING

2007 – present GAANN Fellowship, University of Missouri  
2008 The Explorers Club Exploration Fund  
2008 TWA Scholarship, University of Missouri  
2008 Summer Institute in Statistical Genetics (SISG) Scholarship  
2007 TWA Scholarship, University of Missouri (declined)  
2006 Enhancing Linkages between Mathematics and Ecology (ELME) Scholarship  
2005 Animal Behavior Society, *Genesis Award*  
2005 Animal Behavior Society, *Charles H. Turner Award*  
2005 University of North Carolina, Asheville, *Distinction in Biological Research*  
2004 Acoustical Society of America, *Robert W. Young Award*

### PUBLICATIONS

Hamel, JA. (Accepted) *Anaxyrus americanus*. (American toad). Egg cannibalism. *Herpetological Review*.

Petranka JW, Harp EM, Holbrook CT, & JA Hamel. (2007) Long-term persistence of amphibian populations in a restored wetland complex. *Biological Conservation*. 138: 371–380.

Reynolds BC, Hamel J, Isbanioly J, Klausman L & KK Moorhead. (2007) From forest to fen: Microarthropod abundance and litter decomposition in a Southern Appalachian floodplain/fen complex (USA). *Pedobiologica*. 51: 273–280

### SELECTED PRESENTATIONS

August 2008 “The role of parent-offspring communication during predator encounters in treehopper (Hemiptera: Membracidae) families.” International Society of Behavioral Ecology. Cornell University, Ithaca. Poster.

March 2008 “Roles of communication in maternal defense of treehopper (Hemiptera: Membracidae) families.” Ecolunch. University of Missouri, Columbia. Oral presentation.

March 2006 “Signal-facilitated social behavior in immature treehoppers.” Ecolunch. University of Missouri, Columbia. Oral presentation.

August 2005 “Lil’ Click-zipper: A new song morph in the *Amblycorypha rotundifolia* complex.” Animal Behavior Society, Annual Meeting. Snowbird, Utah. Poster. (Best undergraduate poster).

June 2005 “Differences in soil microarthropod abundance from a mountain floodplain/fen complex.” Hamel, J. & B. Reynolds. Soil and Wetlands Scientists, Annual Meeting. Charleston. Poster.

March 2005 “Zips, Clicks, and Ticks: Analyzing the songs of *Amblycorypha rotundifolia* at Rich Mountain, N.C.” Southeast Ecology and Evolution Conference. University of Georgia, Athens. Oral presentation.

## RESEARCH EXPERIENCE

- 2005 – present *Dissertation research*, University of Missouri
- Investigating parent-offspring communication during predator encounters in two closely related species of treehoppers (*Platycotis vittata* and *Umberonia crassicornis*).
- 2004 – 2005 *Post-baccalaureate research*, UNC-Asheville
- Documented geographic distribution of a cryptic species complex (*Amblyconypha rotundifolia*) of phaneropterine katydids in Western North Carolina.
  - Recorded and analyzed acoustic behavior of different demes.
- Post-baccalaureate research*, UNC-Asheville
- Investigated soil microarthropod ecology at a restored wetland complex.
- 2005 *Field crew*, UNC-Asheville
- Amphibian population monitoring at a restored wetland complex.

## TEACHING and PROFESSIONAL DEVELOPMENT

- 2005 – 2008 *Teaching assistant*, University of Missouri
- Taught laboratories for General Ecology, Introductory Biology, Ornithology, and Genes in Ecology.
  - Edited and graded papers for a writing-intensive course (two semesters).
  - Designed lectures and assessment tools.
  - Led field trips, including weekend excursions.
- 2008 *Guest lecturer*, Introductory Biology, Moberly Area Community College.
- 2008 Completed *College Science Teaching* graduate course, University of Missouri.
- 2007 Completed *Entering Mentoring* module, University of Missouri.
- 2005 *Teaching assistant*, Introduction to Zoology, UNC-Asheville.

## OUTREACH and ACADEMIC SERVICE

- 2008 – present *Participant*, Science and Me presentation series, University of Missouri
- Write and deliver oral presentation promoting public understanding of science.
- 2007 – present *Graduate Mentor*, Undergraduate Mentoring in Environmental Biology, University of Missouri
- Mentor undergraduates through two research-intensive summers and one academic year.
- 2007 – present *Graduate Student Representative*, Conservation Biology Program, University of Missouri
- Develop graduate level certificate program with faculty advisor, associated faculty and graduate student committees.
- 2008 “Bug Talk,” Invited talk. Daniel Boone Regional Public Library. Columbia.
- 2008 “Women in Science” *Instructor*, Girl Scouts of America. Columbia.
- 2008 “Saturday Science” *Instructor*, Conservation Biology module, University of Missouri.
- 2008 *Ecology event co-author and proctor*, Science Olympiad, Columbia.
- 2006 – 2008 *Walk-leader and PR Coordinator*, Columbia BioBlitz.
- 2006 – 2008 *Coordinator*, University of Missouri Conservation Biology reading group.
- 2005 *Counselor*, Bug Camp, UNC-Asheville, NC.
- 2005 *Biology tutor*, Asheville High School, NC.
- 2003 *Director of Community Outreach*, 3 Rivers, 2<sup>nd</sup> Nature, Carnegie Mellon University.
- Developed PR materials for programs involving artistic and scientific inquiry with local communities.
  - Communicated with city officials, non-profit agencies, and citizen action groups.

*ad hoc* REVIEWER for *Behaviour*, *Ethology*, *Florida Entomologist*

## SOCIETY MEMBERSHIPS

Animal Behavior Society • The Explorers Club • International Society of Behavioral Ecology • Sigma Xi