

## CURRICULUM VITAE

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### Education:

2005 – present      *Ph.D. student, 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 Scholarship, University of Washington  
2007                TWA Scholarship, University of Missouri (declined)  
2006                Enhancing Linkages between Mathematics and Ecology Scholarship, Michigan State University  
2005                Animal Behavior Society, *Genesis Award* (best undergraduate poster)  
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. *Anaxyrus americanus*. (American toad). Egg cannibalism. *Herpetological Review*. (Accepted).  
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. (Genesis award: 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*), one temperate and one tropical.
    - Determining the functions of female signals during and after predator encounters.
    - Assessing other potential influences (e.g. alarm pheromone) on female and offspring signaling.
- 2004 – 2005 *Post-baccalaureate research*, UNC-Asheville
- Documented geographic distribution of a cryptic species complex (*Amblycorypha 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 – present *Teaching assistant*, University of Missouri
- Prepared laboratory facilities for General Ecology, Introductory Biology, Ornithology, and Molecular Ecology laboratories.
  - Edited and graded papers for a writing-intensive course (two semesters).
  - Designed lectures and assessment tools for all labs.
  - Led field trips, including weekend excursions.
- 2008 *Guest lecturer*, Introductory Biology, non-majors, 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*, UNC-Asheville
- Prepared laboratory facilities and some lectures for Introduction to Zoology laboratory.
  - Assisted throughout classes; helped prepare and grade practicals.

### Outreach and Academic Service:

- 2007 – present *Graduate Mentor*, Undergraduate Mentoring in Environmental Biology, University of Missouri
- Mentor undergraduate scholars through two research-intensive summers and one academic year.
- 2007 – present *Graduate Student Representative*, Conservation Biology Program, University of Missouri
- Coordinate with faculty advisor and faculty and graduate student committees to develop graduate level certificate program.
- 2007 – present *Walk-leader and PR Coordinator*, Columbia BioBlitz.
- 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.
- 2006 – 2008 *Coordinator*, University of Missouri Conservation Biology reading group.
- 2006 – 2008 *Public Relations Chair*, Raptor Rehabilitation Project, University of Missouri.
- 2006 *Co-Chair*, Columbia BioBlitz, University of Missouri.
- 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.
- Opened and maintained communications with city officials, environmental non-profit agencies, and citizen action groups.
- Worked with production manager to engage economically blighted and environmentally disengaged neighborhoods.

**Related Activities:**

2004 Participant, MAPS mist-netting program, Purchase Knob Biological Station, NC.

2003 Intern, WNC Nature Center, Asheville, NC.

**Reviewer for**

Ethology • Behaviour • Florida Entomologist

**Society Memberships**

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