

JOHANNA M. KRAUS

Curriculum Vitae – February 2011

US Geological Survey
Fort Collins Science Center
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Fort Collins, CO 80526

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RESEARCH & TEACHING INTERESTS

community ecology; food webs; aquatic-terrestrial linkages; spatial subsidies; behavioral habitat selection; complex life histories; aquatic invertebrates; terrestrial arachnids; freshwater ecotones; contaminants; ecosystem services.

EDUCATION

2006 Ph.D., *Biology*, University of Virginia.
1998 A.B. (honors, magna cum laude), *Biology*, Brown University.

PROFESSIONAL APPOINTMENTS

2011- Mendenhall Research Fellow, US Geological Survey
2007-2010 Post-doctoral Researcher, Biology, Virginia Commonwealth University
2006-2007 Visiting Assistant Professor, Biology, Washington and Lee University
2006 National Science Foundation EAPSI Fellow, Japan
2002-2005 National Science Foundation Graduate Research Fellow
2001 Teaching Assistant, University of Virginia
2000 Presidential Fellow, University of Virginia

FELLOWSHIPS & GRANTS

2011 - 2013 *US Geological Survey, Mendenhall Post-doctoral Research Fellowship* (\$190,000)
2006 *National Science Foundation, East Asian and Pacific Summer Institute* (\$8,500)
2005 *University of Virginia, Pratt Dissertation Year Fellowship* (\$8,415)
2002-05 *National Science Foundation, Graduate Research Fellowship* (\$110,500)
2000-01 *University of Virginia, Presidential Fellowship* (\$18,000)
2001-2004 *Mountain Lake Biological Station, Research Fellowship (R&B, plus \$4,000)*
2004 *Sigma Xi, Grants-in-Aid of Research* (\$309)
2004 *Association of Women in Science, Educational Foundation Award* (\$300)
2003 *University of Virginia, Dept. of Biology, Research Stipend* (\$1,500)
2003 *Society of Fellows, University of Virginia, Summer Research Fellowship* (\$1,500)

PUBLICATIONS (Student collaborators underlined)

1. **Kraus J.M.** and J. R. Vonesh. *In prep.* When is a subsidy a subsidy? Fluxes of aquatic and terrestrial carbon in emerging aquatic insects. *Manuscript available.*
2. **Kraus J.M.**, L. Pletcher and J.R. Vonesh. 2011. Variation in active and passive resource inputs to experimental pools: mechanisms and possible consequences for food webs. *Freshwater Biology*, **56**: 491-502.
3. **Kraus J.M.**, and Vonesh J.R. 2010. Feedbacks between community assembly and habitat selection shape variation in local colonization. *Journal of Animal Ecology*, **79**: 795-802.
4. **Kraus J.M.** 2010. Diet shift of lentic dragonfly larvae in response to reduced input of terrestrial prey. *Journal of the North American Benthological Society* **29**: 602-613.
5. Vonesh, J.R., **J.M. Kraus**. 2009. Pesticide alters habitat selection and aquatic community composition. *Oecologia* **160**: 379–385.
6. Vonesh, J.R., **J.M. Kraus**, S. Rosenberg, and J.M. Chase. 2009. Predator effects on aquatic community assembly: disentangling the roles of habitat selection and post-colonization processes. *Oikos* **118**: 1219-1229.
7. Ahrens L., and **J. M. Kraus**. 2006. Wolf spider (Araneae: Lycosidae) movement along a pond-forest boundary. *Journal of Arachnology* **34**: 532-539.
8. **Kraus J. M.**, and D. H. Morse. 2005. Seasonal habitat shift in an intertidal wolf spider: the role of photoperiodic and temperature cues. *Journal of Arachnology* **33**:110–123.
9. Deyrup M., **J. M. Kraus**, and T. Eisner. 2004. A florida caterpillar and other arthropods inhabiting the webs of a subsocial spider (Lepidoptera: Pyralidae; Araneida: Theridiidae). *Florida Entomologist* **87**:554-558.
10. Church S. A. P., **J. M. Kraus**, J. C. Mitchell, D. R. Church, and D. R. Taylor. 2003. Evidence for multiple pleistocene refugia in the postglacial expansion of the eastern tiger salamander, *Ambystoma tigrinum tigrinum*. *Evolution* **57**: 372–383.

AWARDS AND CERTIFICATIONS

| | |
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| 2009 | <i>ArcGIS Desktop II: Tools and Functionality</i> , Virginia Commonwealth University |
| 2003-05 | <i>Junior Fellow</i> , University of Virginia Society of Fellows. |
| 2002 | <i>Seven Society Fellowship for Superb Teaching</i> , Semi-finalist, U of Virginia. |
| 1998 | <i>Senior Biology Prize</i> and <i>Class of 1783 Prize in Biology</i> , Brown University |
| 1998 | <i>Elected, Sigma Xi</i> , The Scientific Research Society, Student Member |

PROFESSIONAL PRESENTATIONS

Invited seminars

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| 2011 | Texas Tech University, Dept. of Biology |
| 2010 | College of William and Mary, Dept. of Biology |

2008 East Carolina University, Dept. of Biology
 2007 Virginia Commonwealth University, Dept. of Biology
 Brown University, Dept. of Ecology and Evolutionary Biology
 2006 University of Hokkaido, Tomakomai Experimental Forest, Japan
 University of Kyoto, Center for Ecological Research, Japan
 University of Virginia, Dept. of Biology, PhD Public Defense
 2005 University of Virginia, Dept. of Biology, guest lecturer
 Jefferson Soil and Water Conservation District, VA
 1999 Brown University, Dept. of Ecology and Evolutionary Biology

Scientific meetings

2010 Ecological Society of America (ESA) 95th Annual Meeting, Pittsburgh, PA
 2009 ESA 94th Annual Meeting, San Jose, CA
 2008 ESA 93rd Annual Meeting, Milwaukee, WI
 Virginia Academy of Science 86th Annual Meeting, Richmond, VA*
 2007 ESA 92nd Annual Meeting, San Jose, CA
 Northeast Partners in Amphibian and Reptiles Conservation, MLBS, VA
 2005 ESA 90st Annual Meeting, Montreal, CAN (Invited talk)
 Southeastern Ecology and Evolution Conference, University of Georgia
 2003 ESA 88th Annual Meeting, Savannah, GA
 2002 ESA 87th Annual Meeting, Tuscon, AZ
 2001 Southeastern Ecology, Population Genetics and Evolution Meeting, NC.
 1998 Rhode Island Natural History Society Meeting, University of Rhode Island

* co-authored with student

ADVISORY AND SUPERVISORY EXPERIENCE

Advising students

2007-present Assisted with graduate student advising in the Vonesh Laboratory (*Leeanna Pletcher, Sarah Crane, Jessica Hite, Ben Van Allen, Chris Asquith, Taura Jackson, Philip Shirk, Zac Costa, Julie Charbonnier and Rachel Komosinski*)
 2002 - 2004 NSF REU Mentor at MLBS of *Lily Ahrens, Brad Williams and Ryan Klopff*

Supervising students

2007- present 5 graduate & 7 undergraduate students, Virginia Commonwealth University
 2003-2004 5 undergraduate students, University of Virginia
 1998-1999 2 undergraduate students, Brown University

COMMUNITY SERVICE

- 2007 – present **Reviewer for journals:** Journal of Animal Ecology (2), Oecologia (1), Ecology Letters (2), Oikos (5), Journal of Medical Entomology (2), Journal of Herpetology (1)
Reviewer for grants: National Science Foundation (2)
- 2003-05 **Student representative,** Dept. of Biology Graduate Committee, U of Virginia.
- 2005 **Co-organizer, organized oral session,** *Complex consequences of food web subsidies.*
Ecological Society of America Annual Meeting, Montreal, CAN
- 2003-05 **Aquatics judge and instructor,** Albemarle County Environthon, Jefferson Soil and Water
Conservation District, VA
- 2005 **Senior junior fellow,** University of Virginia, Society of Fellows
- 2002 **Student volunteer,** Ecological Society of America Meeting, Tuscon, AZ.

PROFESSIONAL SOCIETIES

Ecological Society of America; American Society of Naturalists; Sigma Xi; Association of Women in Science; Graduate Women in Science

TEACHING EXPERIENCE

Instructor

Virginia Commonwealth University, Department of Biology

BIO *Stable Isotopes in Ecosystem Science* (co-taught, graduate course)

Washington and Lee University, Department of Biology

BIO 243 *Animal Behavior*

BIO 301 *Statistics for Biology and Medicine*

BIO 295C *Energy and the Human Environment*

BIO 231 *Field Entomology*

Teaching Assistant

University of Virginia

Department of Biology, *Genetics, Introduction to Biology Laboratory*

Mountain Lake Biological Station, *Field Entomology*