Jonathan L. Richardson

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RESEARCH INTERESTS

Population biology; evolutionary ecology; conservation biology; population genetics and molecular ecology; aquatic ecology

EDUCATION

2012 (expected) Yale University, Ph.D. - School of Forestry and Environmental Studies
Advisor: David K. Skelly

2004 University of Virginia, B.S. - Biology (with distinction); minor in Environmental Sciences
Advisor: Henry M. Wilbur

PUBLICATIONS

Skelly, D.K., and J.L. Richardson. 2009. Larval sampling. Chapter 4 in *Amphibian Ecology and Conservation: A Handbook of Techniques*. (C. K. Dodd, Editor). Oxford University Press.

Wilkinson, E.J., J.L. Richardson, and H. Sherk. 2007. Accurate visual guidance despite severe neglect. **European Journal of Neuroscience** 25(7): 2214-2223.

Richardson, J.L. 2006. Novel features of an inducible defense system in larval tree frogs (*Hyla chrysoscelis*). **Ecology** 87(3): 780-787.

Richards-Hrdlicka, K., L. Mohabir, J.L. Richardson, and A. Caccone. *In review*. The Amphibian Chytrid Fungus (Batrachochytrium dendrobatidis) is Pervasive in the Northeastern United States.

RESEARCH GRANTS AND FELLOWSHIPS

2007–2010 National Science Foundation Graduate Research (Pre-Doctoral) Fellowship

2007–2009 National Fish and Wildlife Foundation Budweiser Conservation Scholarship ($10000)

2008 National Geographic Society, Research and Exploration Young Explorers Grant ($5000)

2008 USGS/IUCN Amphibian Conservation Grant ($2000)

2007 Yale Institute for Biospheric Studies Grant ($1500)

2007 Connecticut Association of Wetland Scientists Lefor Grant ($1000)

2003 Research Experience for Undergraduates (REU) fellow at Mountain Lake Biological Station

TEACHING EXPERIENCE

2010 Teaching Assistant, Doctoral Seminar, Yale University

2009 Teaching Assistant, Research Methods in the Natural Sciences, Yale University

2008 Teaching Assistant, Biology of Climate Change seminar

2008 Teaching Assistant, Research Methods in the Natural Sciences, Yale University

2007 Teaching Assistant, Aquatic Ecology, Yale University

2007 Teaching Assistant, Wildlife Conservation Ecology, Yale University

2006 Teaching Assistant, Aquatic Ecology, Yale University

2004 Teaching Assistant, Fundamentals of Ecology, University of Virginia

2002 Volunteer Teacher, Science and Microscope Workshop, Virginia Museum of Natural History

SCIENTIFIC PRESENTATIONS

2011 Richardson, J.L. Fine-scale adaptive divergence of amphibian populations in response to habitat-mediated selection. Ecological Society of America (ESA) annual meeting. Austin, TX.

2010 Richardson, J.L. Comparative population structure of two amphibian species across New England. Society for the Study of Evolution (SSE & ASN) annual meeting. Portland, OR.

2010 Richardson, J.L. Fine-scale adaptive divergence of wood frog populations (*Rana sylvatica*) in response to habitat-mediated selection. Joint Meeting of Icthyologists and Herpetologists. Providence, RI.

2006 Wilkinson, E.J., J.L. Richardson, and H. Sherk. Accurate visual guidance despite severe neglect. Society for Neuroscience annual meeting. Atlanta, GA.

2005 Richardson, J.L. 2005. Novel features of a larval anuran inducible defense system. Ecological Society of America (ESA) annual meeting. Montreal, QC.

GUEST LECTURES

2009 *Field Methods* and *The Role of Models*. Research Methods in the Natural Sciences (FES 760), School of Forestry and Environmental Studies, Yale University

2008 *Peer Review in Scientific Research*. Research Methods in the Natural Sciences (FES 760), School of Forestry and Environmental Studies, Yale University

2007 *Philosophy of Science and Wildlife Management.* Wildlife Conservation Ecology (FES 360/560), School of Forestry and Environmental Studies, Yale University

2007 *Community Ecology in Lakes*. Aquatic Ecology (FES 370/509), School of Forestry and Environmental Studies, Yale University

OTHER PROFESSIONAL ACTIVITIES AND SERVICE

2006 – 2011 **Peer reviewer** for *Ecology* (3), *Conservation Genetics* (4), *Molecular Ecology* (3), *Evolution* (1), *Ecology Letters* (1), *Oecologia* (1), *Oikos* (1), *Journal of Zoology* (1), *Behavioral Ecology and Sociobiology* (2), *Journal of Herpetology* (1), *Biological Journal of the Linnean Society* (2)

2010 **Active and Scientific Teaching Workshop** – participated in this one day workshop hosted by the American Museum of Natural History focusing on student-centered and evidence based teaching methods to promote student learning

2009 **Conservation Genetics Workshop** – participated in this intensive week long workshop on theory and data analysis in population and conservation genetics at Flathead Lake Biological Station (University of Montana)

2007 – 2011 Guest science teacher and science fair mentor/judge for Hamden Public Schools and regional science fair in New Haven, Conn.

2008 – 2011 Lead several vernal pond natural history hikes every spring for the Appalachian Mountain Club, Regional Water Authority and other groups

2008 **Yale Environmental Law Center** – provided pro bono work as a wetlands expert

2008 Co-organizer of the 24th annual **Doctoral Research Conference** (keynote address by Shahid Naeem).

PRIOR RESEARCH EXPERIENCE

2004 – 2006 *University of Washington (Department of Biological Structure)* - Research technician for a neurobiology lab investigating visuo-motor behavior and its neural substrate within the brain

2004 *University of Montana (College of Forestry and Conservation)* - Research assistant for project investigating the effects of wildfires on western toad (*Bufo boreas*) population dynamics in Glacier National Park using radio telemetry and biophysical models

2000 – 2004 *University of Virginia (Department of Biology)* - Undergraduate research assistant for project looking at the metapopulation dynamics of three salamander species in the Shenandoah Valley of Virginia. I used skeletal chronology to estimate the age structure of populations.

2003 *University of Virginia (Mountain Lake Biological Station)* - Conducted an experiment to investigate phenotypic plasticity in the gray treefrog (*Hyla chrysoscelis*) as an REU participant

2002 *NOAA (Northwest Fisheries Science Center)* - Performed meristic work on juvenile Chinook salmon (*Oncorhynchus tshawytscha*) to evaluate the effects of common hatchery fungicidal chemicals on development. Also managed our section of the center's hatchery.

PROFESSIONAL ASSOCIATIONS

- Ecological Society of America
- Society for the Study of Evolution
- American Society of Naturalists
- Society for Conservation Biology