Curriculum Vitae
L. Kealoha Freidenburg

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Education

- 1986-1990 B.A., Biology, Pomona College.
- 1992-1995 M.S., School of Fisheries, University of Washington.
- 1997-2003 Ph.D., Department of Ecology & Evolutionary Biology, University of Connecticut.

Professional Positions

- 2012- Lecturer, Yale School of the Environment, Yale University
- 2007-2018 Research Scientist, School of Forestry & Environmental Studies, Yale University
- 2010-2011 Adjunct Assistant Professor, Biology Department, Quinnipiac University
- 2004-2007 Associate Research Scientist, School of Forestry & Environmental Studies, Yale University
- 2003-2006 Lecturer, Department of Ecology & Evolutionary Biology, Yale University
- 2004 Visiting Scholar, School of Life Sciences, University of Queensland
- 1997-2001 Graduate Teaching Assistant, Department of Ecology & Evolutionary Biology, University of Connecticut
- 1996-1997 Teaching Assistant, School of Forestry & Environmental Studies, Yale University
- 1996 Program Coordinator, Center for Coastal & Watershed Systems, School of Forestry & Environmental Studies, Yale University
- 1994 Fisheries Biologist, National Biological Service, Seattle, Washington
- 1991-1992 Fisheries Biologist, U.S. Fish and Wildlife Service, Cook, Washington

Teaching Experience

- 2019- Lecturer, *Ecological Patterns & Processes*, School of Forestry & Environmental Studies, Yale University
- 2018- Lecturer, *Senior Colloquium*, Environmental Studies Program, Yale University
- 2015- Lecturer, *Wetlands Ecology, Conservation & Management*, School of Forestry & Environmental Studies, Yale University

- 2012- Lecturer, *Field Science: Environment & Sustainability*, Environmental Studies Program, Yale University
- 2010, 2011 Adjunct Assistant Professor, *Evolution in Biology & Literature*, Biology Department, Quinnipiac University.
- 2006 Lecturer, *Conservation Biology*, Department of Ecology & Evolutionary Biology, Yale University
- 2006 Lecturer, *Principles of Evolution, Ecology & Behavior*, Department of Ecology & Evolutionary Biology, Yale University
- 2005 Lecturer, *Conservation Biology*, Department of Ecology & Evolutionary Biology, Yale University
- 2005, 2006 Guest Lecturer, *Invasion Biology* (taught by Ann Camp and Mary Tyrell), School of Forestry & Environmental Studies, Yale University.
- 2003 Lecturer, *Fish Biology*, Department of Ecology & Evolutionary Biology, Yale University
- 1997-2001 Graduate Teaching Assistant, Department of Ecology & Evolutionary Biology, University of Connecticut. *Fish Biology; Marine Biology; Principles of Biology; General Ecology*.
- 1996-1997 Teaching Assistant, School of Forestry & Environmental Studies, Yale University. *Aquatic Ecology; Habitat Conservation Planning*.

Graduate Advising

Alishia Orloff, Yale School of the Environment, MESc advisor, 2019 – 2021
Britta Dosch, Yale School of the Environment, MEM capstone project, 2019-2020
Emma Lagle, Yale School of the Environment, MEM capstone project, 2020

Undergraduate Advising

Bay Hansen, Environmental Studies, Yale University, senior thesis advisor 2020-
Paige Johnson, Ecology & Evolution, Yale University, senior thesis advisor 2019-2020
Arwen Neski, Environmental Studies, Yale University, senior thesis advisor 2018-2019
Ella Schmidt, Environmental Studies, Yale University, senior thesis mentor 2017-2018
Angel Hsu, Ecology & Evolution, Yale University, senior thesis advisor 2015

Peer Reviewed Publications

- Rowland, F.E., Schyling, E.S., **Freidenburg, L.K.**, Urban, M.C., Richardson, J.L. Arietta, A.Z.A., Rodrigues, S.B., Rubinstein, A., Benard, M.F., and D.K. Skelly. In preparation. Asynchrony, density dependence, and persistence in an amphibian. *In press* Ecology.

- Arietta, A.Z.A., A. Rubenstein, **L.K. Freidenburg**, and P.N.K. Johnson. 2020. Multiple cases of hypomelanism in wood frog larvae (*Rana sylvatica*) associated with developmental retardation and mortality. Northeastern Naturalist 27:641-648.

- Arietta, A.Z.A, **L.K. Freidenburg** *et al.* 2020. Phenological delay despite warming in wood frog *Rana sylvatica* reproductive timing: a 20-year study. Ecography 43:1-11.

- Lambert, M. R., M. S. Smylie, A. J. Roman, **L.K. Freidenburg**, and D. K. Skelly. 2018. Sexual and somatic development of wood frog tadpoles along a thermal gradient. Journal of Experimental Zoology Part A. 39:1-8.

- Holgerson, M.A., M. R. Lambert, **L.K. Freidenburg**, and D. K. Skelly. 2017. Suburbanization alters small pond ecosystems: shifts in nitrogen and food web dynamics. Canadian Journal of Fisheries and Aquatic Sciences. 75: DOI:1139/cjfas-2016-0526.

- **Freidenburg, L.K**. 2017. Environmental drivers of carry-over effects in a pond breeding amphibian, the wood frog (*Rana sylvatica*). Canadian Journal of Zoology 95:255-262.

- Shepack, A., **L.K. Freidenburg**, and D. K. Skelly. 2016. Species loss in developed landscapes: an experimental evaluation. Landscape Ecology 32:609-615.

- Skelly, D. K., S. B. Bolden, and **L.K. Freidenburg**. 2014. Experimental canopy removal enhances diversity of vernal pond amphibians. Ecological Applications 24:340-345.

- Skelly, D. K. and **L.K. Freidenburg**. 2012. "Applied Ecology." *In* Oxford Bibliographies Online: Ecology. Ed. EIC Christopher Key Chapple. New York: Oxford University Press.

- Skelly, D. K. and **L.K. Freidenburg**. 2010. Evolutionary responses to climate change. In: Encyclopedia of Life Sciences (ELS). John Wiley & Sons. Chichester.

- Skelly, D. K., S. R. Bolden, **L.K. Freidenburg**, N. A. Freidenfelds, and R. Levey. 2007. *Ribeiroia* infection is not responsible for Vermont amphibian deformities. EcoHealth 4:156-163.

- Skelly, D. K., L. N. Joseph, H. P. Possingham, **L.K. Freidenburg**, T. J. Farrugia, M. T. Kinnison & A. P. Hendry. 2007. Evolutionary responses to climate change. Conservation Biology 21:1353-1355.

- Skelly, D. K., S. R. Bolden, **L.K. Freidenburg**, N. A. Freidenfelds, M. P. Holland, T. R. Malcolm. 2006. Urbanization and disease in amphibians. Pages 153 to 167 in S. Collinge and C. Ray (Eds.) Ecology of disease: community context and pathogen dynamics. Oxford University Press.

- Skelly, D. K., M. A. Halverson, **L.K. Freidenburg**, and M. C. Urban. 2005. Canopy and amphibian biodiversity in forested wetlands. Wetlands Ecology and Management 13: 261–268.

- **Freidenburg, L. K.** and D. K. Skelly. 2004. Microgeographic variation in thermal preference by an amphibian. Ecology Letters 7:369-373.

- Halverson, M. A., D. K. Skelly, J. M. Kiesecker, and **L.K. Freidenburg**. 2003. Forest mediated light regime linked to amphibian distribution and performance. Oecologia 134:360-364.

- Skelly D. K., **L.K. Freidenburg**, and J. M. Kiesecker. 2002. Forest canopy and the performance of larval amphibians. Ecology 83:983-992.

- Skelly D. K., and **L.K. Freidenburg**. 2000. Effects of beaver on the thermal biology of an amphibian. Ecology Letters 3:483-486.

- **Freidenburg L. K**. 1997. Physical effects of habitat fragmentation. *In* (P. Fiedler and P. Kareiva, Editors) Conservation Biology. Chapman and Hall, New York.

Other Publications

- **Freidenburg, L. K.** 2003. Spatial ecology of the wood frog, *Rana sylvatica*. Dissertation, University of Connecticut.

- **Freidenburg, L. K.** 1995. Habitat use of juvenile salmonids: the effects of scale and method of habitat assessment. Masters thesis, University of Washington.

- **Freidenburg L. K.** 1995. Book review: Bates, S. F., D. H. Gretches, L. J. MacDonnell, and C. F. Wilkinson. Searching Out the Headwaters: Change and Rediscovery in Western Water Policy. Fisheries 20:52.

- Nelson W. R., **L.K. Freidenburg**, and D. W. Rondorf. 1993. Swimming behavior of subyearling chinook salmon. Pages 30-51 *in* D. W. Rondorf and W. H. Miller, editors. The spawning, rearing, and migratory requirements of fall chinook salmon in the Columbia River Basin. Annual report to Bonneville Power Administration, Portland, OR.

- Nelson W. R., **L.K. Freidenburg**, and D. W. Rondorf. 1994. Swimming behavior of subyearling chinook salmon. Pages 39-62 *in* D. W. Rondorf and W. H. Miller, editors. Identification of the spawning, rearing, and migratory requirements of fall chinook salmon in the Columbia River Basin. Annual report to Bonneville Power Administration, Portland, OR.

Manuscripts in Review and Preparation

- **Freidenburg, L.K.** and D. K. Skelly. *In prep*. Forest canopy, intraspecific competition and the population dynamics of an amphibian. For Ecosphere.
- **Freidenburg, L.K.** *In prep*. Within pond habitat use of a larval amphibian.

Invited Academic Seminars

- Yale University, YIBS Seminar, 2020

- McGill University, Biology Department, 2003
- Yale University, Department of Ecology & Evolutionary Biology, 2003
- Arizona State University, School of Life Sciences, 2003
- Pennsylvania State University, Biology Department, 2001

Community Engagement & Outreach

- 2018- Board member, Madison Land Conservation Trust, Madison, CT.
- 2016- Inland Wetland Agency (current Chair), Madison, CT.
- 2019 Speaker for Guilford Conservation Commission, Guilford, CT.
- 2018 Speaker at the Middlesex Land Conservation Trust Annual meeting
- 2018 Speaker at "Meet the Greens", Rockfall Foundation, Middletown, CT.
- 2018, 2019 Ecology Day presentation, Brown Middle School, Madison, CT.
- 2016 Speaker at the Madison Land Conservation Trust Annual meeting, Madison, CT.
- 2016 Speaker at the Hamden Land Conservation Trust Annual meeting, Hamden, CT.
- 2006-2016 Member, Conservation Commission, Madison, CT.
- 2006-2016 Brown Middle School Wildlife After School Program, Madison, CT.
- 2008-2010 Pond Project, Polson Pond II (Teaching), Madison, Connecticut.

Fellowships and Honors

- Summer Fellowship, Department of Ecol. & Evol. Biology, Univ. of Connecticut, 2000-2002
- Francis Trainor Fellowship, Connecticut Natural History Museum, Univ. of Connecticut, 2001
- Ralph Wetzel Fellowship, Connecticut Natural History Museum, Univ. of Connecticut, 1999
- Keeler Fellowship, School of Fisheries, University of Washington, 1995.
- Cooperative Education Fellowship, National Biological Service, Seattle, WA, 1992-1995

Research Experience

- 1997- Ecology of larval amphibians. Connecticut.
  Current project: Urbanization & suburbanization land use impacts, distributional limits and performance in amphibians
- 1992-1995 Spatial scale, environmental variation, and the habitat use of juvenile coho salmon. Seattle, Washington
- 1991-1992 Ontogeny of swimming behavior in migrating chinook salmon. Cook, Washington

Peer Reviewer

American Midland Naturalist, Copeia, Basic & Applied Herpetology, Ecological Indicators, Ecology Letters, Ecoscience, Functional Ecology, Hydrobiologie, Journal of Animal Ecology, Journal of Herpetology, Proceedings of the Royal Society of London: Series B.