

## Curriculum Vitae

### David Kiernan Skelly

Frank R. Oastler Professor of Ecology  
Director, Yale Peabody Museum of Natural History

School of Forestry & Environmental Studies      Phone: (203)432-3752  
Yale University      Fax: (203)432-3758  
195 Prospect Street      Email: david.skelly@yale.edu  
New Haven, Connecticut 06511 USA      <http://environment.yale.edu/skelly/>

#### Education

1983 - 1987    A. B., Biology, Middlebury College, Vermont, *cum laude*  
1987 - 1992    Ph.D., Department of Biology, University of Michigan, Ann Arbor

#### Professional Positions

1992 - 1993    Postdoctoral Research Fellow, University of Wollongong, Australia  
1993 - 1995    NSF Postdoctoral Fellow, Dept. of Zoology, University of Washington  
1996 -         School of Forestry and Environmental Studies, Yale University  
                  1996 – 2000    Assistant Professor of Ecology  
                  2000 – 2003    Associate Professor of Ecology  
                  2003 – 2015    Professor of Ecology  
                  2009 – 2014    Associate Dean for Research  
                  2015 –         Frank R. Oastler Professor of Ecology  
1998 -         Adjunct Prof., Dept of Ecology & Evolutionary Biology, Yale University  
2000 -         Curator, Division of Vertebrate Zoology, Peabody Museum of Natural  
                  History, Yale University  
2001         Visiting Associate Professor, Dept. of Biology, Penn State University  
2003 – 2004    Visiting Scholar, School of Biological Sci, Univ. of Queensland, Australia  
2004 – 2006    Director, Doctoral Program in Organismal and Integrative Biology, Yale  
                  University  
2005 – 2009    Chair, Masters Admissions, School of Forestry & Environmental Studies,  
                  Yale University  
2009 – 2014    Director of Doctoral Studies, School of Forestry & Environmental Studies,  
                  Yale University  
2013 –         Consulting Faculty, Yale National University of Singapore College  
2014 –         Director, Yale Peabody Museum of Natural History

#### Fellowships and Honors

1987         Honors, Undergraduate Thesis, Middlebury College  
1990 - 1991    Rackham Predoctoral Fellowship, University of Michigan  
1992         Rackham Dissertation Fellowship, University of Michigan  
1997, 2001,    Award for Teaching Excellence, Yale School of Forestry &  
2003, 2006    Environmental Studies  
2003 – 2004    Guggenheim Fellowship, John Simon Guggenheim Foundation

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- 2004 – Senior Research Fellowship, The MacMillan Center for International and Area Studies, Yale University  
2011 Fellow, American Association for the Advancement of Science

### Teaching Experience

- 1987 - 1991 Teaching Assistant, Department of Biology, University of Michigan  
Introductory Biology, General Ecology, Herpetology  
1995 Instructor, Biodiversity and Conservation Biology, Bureau of Land Management Training Course on Threatened and Endangered Species, Roseburg, Oregon  
1996 - Assistant/Associate/Full Professor, Yale University: Aquatic Ecology, Conservation Biology, Landscape Ecology, Habitat Conservation Planning, Hydro-ecology, Graduate Seminar in Ecology, Doctoral Seminar

### Other Professional Experience

- 1994 Consultant, Sierra Club Legal Defense Fund, Portland, Oregon.  
1994 – 1995 Consultant, Association of Forest Service Employees for Environmental Ethics, Portland, Oregon.  
1997 - 1998 Member, Working Group on Habitat Conservation Plans, National Center for Ecological Analysis and Synthesis, Santa Barbara, California.  
1997 - 2000 Member, Biodiversity Forum, Connecticut Chapter of The Nature Conservancy.  
1999 Consultant, National Park Service/Environmental Protection Agency, Mid Continent Ecology Lab, Duluth, Minnesota.  
2002, 2003 Panelist, Ecology Program, Doctoral Dissertation Improvement Grants, Division of Environmental Biology, National Science Foundation.  
2002 - Endangered Species Advisory Committee, Department of Environmental Protection, State of Connecticut.  
2002 – 2007 Director of Postdoctoral Studies, School of Forestry & Environmental Studies, Yale University  
2003 - 2009 Editorial Board, Ecology/Ecological Monographs, Ecological Society of America  
2003 Science Advisory Panelist, U.S. Environmental Protection Agency.  
Review of Atrazine effects on Amphibians  
2005 National Ecological Observatory Network (NEON) Design Consortium, Science and Human Dimensions Committee  
2005 Panelist, Ecological Biology, Division of Environmental Biology, National Science Foundation  
2005 - 2014 Board Member, Madison Land Conservation Trust, Madison, Connecticut  
2007 Faculty Leader, Association of Yale Alumni Trip, New Zealand  
2007 Panelist, Ecological Biology, Division of Environmental Biology, National Science Foundation  
2007 Science Advisory Panelist, U.S. Environmental Protection Agency.  
Review of Atrazine effects on Amphibians  
2009 Faculty Leader, Association of Yale Alumni Trip, Mexico

- 2009 - Board of Directors, Connecticut Trust for Public Land  
2011 - Judge, Blavatnik Awards for Young Scientists, NY Academy of Sciences  
2012 Panelist, Ecology Program, Division of Environmental Biology, National Science Foundation.  
2012-13 Chair, Env'tl. Studies Search Committee, Yale-NUS College, Singapore  
2012 - Advisory Comm., NatureNet Program, The Nature Conservancy  
2013 Chair, External Visiting Comm, Env'tl Studies Dept, UC Santa Cruz  
2013 External Visiting Comm, EEB Program, Dartmouth College  
2013 – Chair, Advisory Board, Connecticut Trust for Public Land  
2013 –14 Mercer Award Subcommittee, Ecological Society of America  
2014 External Visiting Comm., Env'tl Studies, Middlebury College  
2015 E. O. Wilson Award Committee, American Society of Naturalists  
2015 External Review Panel, Common Curriculum, Yale-NUS College

**Selected Grants**

- 1992 – 1993 Australian Flora and Fauna Research Program, University of Wollongong. \$AU 40,785  
1993 – 1995 National Science Foundation Postdoctoral Fellowship in Environmental Biology. \$69,600  
1997 – 2000 NSF/EPA Water and Watersheds Program: Connecting Ecological and Social Systems: watershed research relating ecosystem function to human values and socioeconomic behaviors. \$750,000. (with G. Benoit, S. Kellert, M. Ashton, P. Barten, and L. Bennett)  
1997 – 2003 National Science Foundation LTREB: A long term survey of Michigan amphibian assemblages. \$300,000. (with E. Werner and R. Relyea)  
2000 – 2003 NIH/NSF Ecology of Infectious Diseases Program: Wetland urbanization gradients and the ecology of vector borne diseases. \$1,500,000. (with D. Cavener and K. Shea)  
2002 – 2007 CDC Fellowship Training Program: Vector Borne Disease. \$1,300,000. (with D. Fish and others)  
2004 – 2006 Director's Award, Yale Center for International and Area Studies. \$10,000  
2005 – 2010 National Science Foundation LTREB: A Long-Term Study of Metacommunity Dynamics of Amphibians and Their Predators. \$300,000. (with E. Werner, R. Relyea, & K. Yurewicz)  
2005 – 2006 Connecticut Institute of Water Resources. Gonadal abnormalities in Connecticut Amphibians, \$18,040  
2005 – 2010 Department of Defense (Army Research Office), Scalable Control of Networked Autonomous and Semi-Autonomous Vehicle Swarms Inspired by Nature, \$250,000 (with V. Kumar and others)  
2006 – 2007 National Science Foundation, Evolutions: A Museum-Based After School Program, \$75,000 (PI: D. Skelly)  
2007 – 2010 National Science Foundation, Urbanization and macroparasite infection of amphibians, \$250,000 (PI: D. Skelly)  
2007 – 2008 Eppley Foundation, Rapid evolution in response to fire ants, \$25,200 (CoPIs: T. Langkilde and D. Skelly)

## Curriculum Vitae

David Kiernan Skelly

- 2010 – 2012 National Science Foundation, Doctoral Dissertation Improvement Grant, \$15,000 (PI: D. Skelly; Co PI: S. Brady)  
2010 – 2011 Richard P. Garmany Fund, Hartford Foundation for Public Giving, \$30,000 (PI: D. Skelly)  
2011 National Geographic Society/Waitt Foundation, \$14,900 (PI: D. Skelly)  
2012 Quinnipiac River Fund, \$10,500 (PI: D. Skelly)

## Proposal In Review

- 2015 NSF LTREB Preliminary Collaborative Research Proposal: Apex Predation Under A Changing Climate. (Co-PI; M. Urban PI).

## Invited Seminars & Symposia

- 1993 Department of Biological Sciences, University of New South Wales  
Division of Wildlife & Ecology, CSIRO, Canberra  
University of Technology, Sydney  
Department of Biology, Middlebury College
- 1994 Department of Organismal & Evolutionary Biology, Harvard University
- 1995 School of Forestry & Environmental Studies, Yale University  
Cary Conference VI, Institute of Ecosystem Studies  
Amphibian Symposium, Society of Northwestern Vertebrate Biologists
- 1996 College of Forest Resources, University of Washington  
The Ecosystems Center, Woods Hole
- 1997 Department of Zoology, University of Oklahoma  
Department of Biology & Medicine, Brown University  
Department of Biology, University of Rhode Island  
Department of Ecology & Evolutionary Biology, Univ. of Connecticut  
Department of Biology, Columbia University  
Vernal Pools Symposium, Conn. Dept. of Env'tl. Protection
- 1998 Division of Biological Sciences, University of Missouri  
Mountain Lake Biological Station, University of Virginia  
Wildlife Biology Program, University of Montana
- 1999 Department of Wildlife Ecology, University of Maine  
Department of Biology, University of Maine  
Department of Biology, Wheaton College  
Department of Biology, City College of New York  
Department of Zoology, University of British Columbia  
Department of Forest Sciences, University of British Columbia  
Department of Biology, University of Victoria

- 2000 Society of American Foresters, Connecticut
- 2001 Ecology Program, Pennsylvania State University  
Department of Biology, University of Massachusetts
- 2002 Department of Ecology & Evolutionary Biology, Yale University  
National Marine Fisheries Service, Seattle  
City University of New York  
Institution for Social and Policy Studies, Yale University
- 2003 Department of Biology, Boston University  
Department of Biology, Arizona State University  
Association of Massachusetts Wetland Scientists  
Wetland Symposium, The Wildlife Society  
Department of Biology, University of Maryland  
Department of Biology, McGill University
- 2004 School of Tropical Biology, James Cook University, Queensland  
Applied & Environmental Sciences, Griffith University, Queensland  
School of Biological Sciences, University of Queensland  
Department of Anatomy & Neurobiology, Dalhousie University  
Institute for Ecosystem Studies, Millbrook, New York  
Department of Natural Sciences, Bennington College
- 2005 Plenary Presentation, Australian Society of Herpetology  
Dept of Ecology and Evolutionary Biology, Cornell University  
Cornell Herpetological Society  
Department of Biology, University of New Orleans  
School of Engineering & Applied Sciences, Univ. of Pennsylvania  
Declining Amphibians Symposium, 5<sup>th</sup> World Herpetology Congress,  
South Africa  
Robotics Conference, Napa, California  
Science Saturdays Program for Children, Yale University
- 2006 John Ostrom Lecture, Peabody Museum, Yale University  
Sigma Xi Lecture, Program in Environmental Science, Pace Univ.  
Center for Integrative Geosciences, University of Connecticut  
Peabody Museum Teachers' Institute  
Mark W. Gould Lecture Series, Rhode Island Natural History Survey  
Dept of Natural Resource Conservation, Univ. Massachusetts, Amherst
- 2007 Mianus River Watershed Council, Stamford, Connecticut  
Lecturer, Association of Yale Alumni Educational Travel, New Zealand  
Swarming in Natural and Engineered Systems, Univ. of Pennsylvania  
Connecticut Forest Science Forum

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- 2008      Natural Resources, University of Connecticut  
Ecology Program, Duke University  
Ecology Center, Utah State University  
Yale Institute of Biospheric Studies  
New England Assoc. of Resource Conservation & Development Councils  
Dept of Natural Resource Conservation, Univ. Massachusetts
- 2009      Ecology and Evolution, University of California Davis  
Lecturer, Assoc. of Yale Alumni Educational Travel, Sea of Cortez  
Keynote Speaker, Guilford Land Trust Annual Meeting  
Pomperaug River Watershed Coalition, Southbury, Connecticut  
Cornell Herpetological Society, Cornell University
- 2010      Hudson River Environmental Society  
Department of Biology, Reed College  
Keynote Speaker, Simsbury Land Trust Annual Meeting  
National Association of Science Writers Annual Meeting  
Westchester Conservation Café, Greenburgh, NY
- 2011      Transportation Research Board Annual Meeting, Wash. DC  
Department of Biology, Connecticut College  
2011 Water Science Forum, New England Interstate Water Pollution  
Control Commission, Portland, Maine  
Program in Ecology, University of Wyoming  
Department of Ecology & Evolutionary Bio., Brown University  
League of Women Voters, Greenwich, Connecticut  
Department of Biology, Georgia Tech
- 2012      Organizer, AAAS Symposium: “The future of ecological communities  
under climate change. No analog?,” Vancouver, BC  
Yale Institute of Biospheric Studies, Director’s Seminar  
Environment Initiative, Georgetown University
- 2013      Wildlife Ecology Program, University of Maine  
Leadership Council, Yale Peabody Museum  
Keynote Address, Graduate Student Symposium, Yale EEB  
Co-Organizer, EarlFest Symposium in honor of Prof. Earl Werner  
Plenary, Action2020, US Business Council for Sustainable Development  
Summer Program, Yale NUS College, New Haven  
Plenary, Student Conference on Conservation Science, NY  
Department of Biology, Rice University  
All Science Meeting, The Nature Conservancy, San Jose
- 2014      Center for Science and the Common Good, Ursinus College  
Family Weekend Lecture, Yale Peabody Museum of Natural History  
Yale Club of New Haven

Dept. of Biology, Colorado State University

2015 Yale-Natl. Univ. of Singapore College  
College of the Environment, Wesleyan University  
Plenary speaker, PRIM&R (IACUC National Meeting), Boston  
Endocrinology Grand Rounds, Yale School of Medicine  
CEO Symposium, American Alliance of Museums Meeting  
Bioblitz Keynote, University of Connecticut  
Adaptation Symposium, The Wildlife Society, Winnipeg (scheduled)

## Publications

### *Book*

**Skelly, D. K.**, D. M. Post, and M. D. Smith (editors). 2010. The art of ecology: writings of G. Evelyn Hutchinson. Yale University Press, New Haven and London.

### *Manuscripts in Review*

Benard, M. F., Earl E. Werner, **D. K. Skelly**, R. A. Relyea, C. J. Davis. *in review*. Is spatial synchrony predictable? A test in an amphibian metapopulation. Proceedings of the Royal Society B.

Holgerson, M., D. M. Post, **D. K. Skelly**. *in review*. Reconciling green and brown food web pathways in small ponds: A whole-ecosystem experiment. Ecology Letters.

Shepack, A., L. K. Freidenburg, and **D. K. Skelly**. *in revision*. Species loss in developed landscapes: an experimental evaluation. Landscape Ecology.

Lambert, M. R., G. S. J. Giller, **D. K. Skelly**, R. G. Bribiescas. *in review*. Septic systems, but not sanitary sewer lines, are associated with elevated estradiol in frog metamorphs from suburban ponds. General & Comparative Endocrinology.

Middleton, A.D., **D.K. Skelly**, D.R. MacNulty, A.T. Ford, O.J. Schmitz, M.J. Sheriff. *in review*. Predator-prey encounter rates, lethality, and the challenge of predicting risk effects in diverse vertebrates. Ecological Applications.

Rogalski, M. A., **D. K. Skelly**, and P. Leavitt. *in review*. Pollution-impacted zooplankton communities became more homogeneous and more diverse during the Anthropocene. Global Change Biology.

### *Manuscripts in Preparation*

- Benard, M. F., C. J. Davis, R. A. Relyea, **D. K. Skelly**, E. E. Werner, K. Yurewicz. *in preparation*. Does pond area or terrestrial habitat constrain Wood Frog population size? For Ecology.
- Benard, M. F., Hoverman, J. T., Werner, E. E., Davis, C. J., Relyea, R., **Skelly, D. K.** *in review*. Larval trait associated dispersal behavior in an amphibian: a case for habitat matching. JOURNAL.
- Freidenburg, L. K. and **D. K. Skelly**. *in preparation*. Forest canopy, intraspecific competition and the population dynamics of an amphibian. For Ecology Letters.
- Schyling, E., S.R. Bolden, L.K. Freidenburg, M. C. Urban, and **D.K. Skelly**. *in preparation*. Synchrony and vulnerability to extinction in an amphibian. For American Naturalist.
- Zarnetske, P.L., M.C. Urban, D.K. Skelly, P. Budy, C. Luecke. *in preparation*. Predicting Condition in Arctic Fish: Evaluating Climate and Species Interaction Drivers. For Global Change Biology.

***Peer-Reviewed Publications (h-index: ISI 34, Google Scholar 40)***

- Lambert, M. R., G. S. J. Giller, L. B. Barber, K. C. Fitzgerald, and **D. K. Skelly**. 2015. Suburbanization, estrogen contamination, and sex ratio in wild amphibian populations. *Proceedings of the National Academy of Sciences*. 112:11881–11886.
- Fenichel, E., **D. K. Skelly**. 2015. Why should data be free? Don't you get what you pay for? *Bioscience*. [doi:10.1093/biosci/biv052]
- Tallis, H., J. Lubchenco, ... , **D. K. Skelly**, et al. (ca. 240 authors). 2015. A call for inclusive conservation. *Nature* 515:27-28.
- Werner, E. E., C. J. Davis, **D. K. Skelly**, R. A. Relyea, and S. MacCauley. 2014. Cross-scale Interactions and the distribution-abundance relationship. *PLoS ONE* 9:e97387.
- Richardson, J.L., M.C. Urban, D. Bolnick, and **D.K. Skelly**. 2014. Microgeographic adaptation and the spatial scale of evolution. *Trends in Ecology and Evolution* 29:165-176. (<http://dx.doi.org/10.1016/j.tree.2014.01.002>)
- Skelly, D. K.**, L. K. Freidenburg, and S. R. Bolden. 2014. Experimental canopy removal enhances diversity of vernal pond amphibians. *Ecological Applications* 24:340-345. (<http://dx.doi.org/10.1890/13-1042.1>).

- Smits, A.P., **D. K. Skelly** and S. R. Bolden. 2014. Amphibian intersex in suburban landscapes. *Ecosphere*. 5:art11. (<http://dx.doi.org/10.1890/ES13-00353.1>)
- Urban, M.C., P.L. Zarnetske, and **D. K. Skelly**. 2013. Moving forward: Dispersal and species interactions determine biotic responses to climate change. *Annals of the New York Academy of Sciences* 1297:44-60.
- Skelly, D. K.** 2013. Learning from deformed frogs (book review). *BioScience* 63:140-141.
- Skelly, D. K.** 2013. G. Evelyn Hutchinson. Oxford Biographies. Oxford University Press, New York: Oxford University Press.
- Balmori, D. and **D. K. Skelly**. 2012. Crossing to sustainability: a role for design. *Ecological Restoration*. 30:363-367 (Images: 30:350-352).
- Rogalski, M. A., and **D. K. Skelly**. 2012. Positive effects of nonnative invasive *Phragmites australis* on Larval Bullfrogs. *PLoS ONE* 7:e44420.
- Zarnetske, P. L., **D. K. Skelly**, M. C. Urban. 2012. Biotic multipliers of climate change. *Science* 336:1516-1518.
- Hoverman, J. T., C. J. Davis, E. E. Werner, **D. K. Skelly**, R. A. Relyea, and K. L. Yurewicz. 2011. Environmental gradients and the structure of freshwater snail communities. *Ecography* 34:1049-1056.
- Skelly, D. K.** and L. K. Freidenburg. 2011. Applied Ecology *in* Oxford Bibliographies Online: Ecology. Ed. EIC Christopher Key Chapple. New York: Oxford University Press.
- Warren, R. J., II, **D. K. Skelly**, O. J. Schmitz, and M. Bradford. 2011. Universal ecological patterns in college basketball communities. *PLoS ONE* 6: e17342.
- Skelly, D. K.**, S. R. Bolden, and K. Dion. 2010. Intersex amphibians concentrated in suburban and urban landscapes. *EcoHealth*.7:374-379. [Recommended by Faculty of 1000]
- Skelly, D. K.** 2010. A climate for contemporary evolution. *BMC Biology* 8:136.
- 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.** and M. F. Benard. 2010. Mystery unsolved: missing limbs in deformed amphibians. *Journal of Experimental Zoology B: Molecular and Developmental Evolution*. 314B:179-181.

- Kerby, J., K. Richards-Hrdlicka, A. Storfer, and **D. K. Skelly**. 2009. An examination of amphibian sensitivity to environmental contaminants: Are amphibians poor canaries? *Ecology Letters* 12:1-8. [*Recommended by Faculty of 1000*]
- Ligon, N. F., and **D. K. Skelly**. 2009. Cryptic divergence: countergradient variation in the wood frog. *Evolutionary Ecology Research* 11:1099-1109.
- 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.
- Werner, E. E., R. A. Relyea, K. L. Yurewicz, **D. K. Skelly**, and C. J. Davis. 2009. Comparative landscape dynamics of two anuran species: climate driven interaction of local and regional processes. *Ecological Monographs* 73:509-521. [*Recommended by Faculty of 1000*]
- McCauley, S. J., C. J. Davis, R. A. Relyea, K. L. Yurewicz, **D. K. Skelly**, and E. E. Werner. 2008. Metacommunity patterns in larval odonates. *Oecologia*. 158:329-342.
- Schwager, M., F. Bullo, **D. Skelly**, and D. Rus. 2008. A Ladybug Exploration Strategy for Distributed Adaptive Coverage Control. Proceedings of International Conference on Robotics and Automation, Pasadena.
- Urban, M. C., B. L. Phillips, **D. K. Skelly** and R. Shine. 2008. A toad more traveled: the heterogeneous invasion dynamics of cane toads in Australia. *American Naturalist*. 171:E134-E138.
- Skelly, D. K.** 2007. The Ailing Invader. Proceedings of the National Academy of Sciences USA. 104:17561-17562.
- 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.
- Werner, E. E., K. L. Yurewicz, **D. K. Skelly**, and R. A. Relyea. 2007. Turnover in an amphibian metacommunity: the role of local and regional factors. *Oikos* 116:1713–1725. [*Recommended by Faculty of 1000*]
- Werner, E. E., **D. K. Skelly**, R. A. Relyea and K. L. Yurewicz. 2007. Amphibian species richness across environmental gradients. *Oikos* 116:1697-1712.
- 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.

- Semlitsch, R. D. and **D. K. Skelly**. 2007. Ecology and conservation of pool breeding amphibians. Pages 127-148 *in* Vernal Pools: Ecology and Conservation of Seasonal Wetlands in Northeastern North America (A. Calhoun and P. deMaynadier, Editors). CRC Press. ISBN 0849336759
- Urban, M. C., B. Philips, **D. K. Skelly**, and R. Shine. 2007. The cane toad's (*Bufo marinus*) increasing ability to invade Australia is revealed by a dynamically updated range model. Proceedings of the Royal Society of London B 274:1413-1419. [*Recommended by Faculty of 1000*]
- Holland, M. P., **D. K. Skelly**, M. Kashgarian, S. R. Bolden, L. M. Harrison, M. Cappello. 2007. Echinostome infection in green frogs is stage and age dependent. Journal of Zoology 271:455-462.
- Halverson, M. A., **D. K. Skelly** and A. Caccone. 2006. Inbreeding linked to amphibian survival in the wild but not in the laboratory. Journal of Heredity 97:499-507.
- Urban, M. C. and **D. K. Skelly**. 2006. Evolving metacommunities: Toward an evolutionary perspective on metacommunities (Concepts & Synthesis). Ecology 87:1616-1626.
- Skelly, D. K.** 2006. Declining amphibians (M. Lannoo, Editor) [book review] Herpetological Review 37:123-125.
- Halverson, M. A., **D. K. Skelly** and A. Caccone. 2006. Kin distribution among amphibian larvae in the wild. Molecular Ecology 15:1139-1145.
- Skelly, D. K.**, S. R. Bolden, M. P. Holland, L. K. Freidenburg, N. A. Freidenfelds, and T. R. Malcolm. 2006. Urbanization and disease in amphibians. Pages 153-167 *in* S. Collinge and C. Ray (Eds.) Ecology of disease: community context and pathogen dynamics. Oxford University Press.
- Urban, M. C., **D. K. Skelly**, D. Burchsted, W. Price, and S. Lowry. 2006. Stream communities across a rural-urban landscape gradient. Diversity & Distributions 12:337-350. [*Recommended by Faculty of 1000*]
- Brownstein, J., **D. K. Skelly**, T. Holford, and D. Fish. 2005. Forest fragmentation predicts local scale heterogeneity of Lyme disease risk. Oecologia 146:469-475.
- Taylor, B., **Skelly, D. K.**, Demarchis, L. K., Slade, M. D., Rabinowitz, P. M. 2005. Proximity to pollution sources and risk of amphibian limb deformity. Environmental Health Perspectives 113:1497-1501.

- Skelly, D. K.**, M. A. Halverson, L. K. Freidenburg, and M. C. Urban. 2005. Canopy closure and amphibian diversity in forested wetlands. *Wetlands Ecology and Management* 13: 261–268.
- Skelly, D. K.** 2005. Experimental venue and estimation of interaction strength: reply. *Ecology* 86:1068-1071.
- Freidenburg, L. K., and **D. K. Skelly**. 2004. Microgeographical variation in thermal preference by an amphibian. *Ecology Letters* 7:369-373.
- Skelly, D. K.** 2004. Microgeographic countergradient variation in the wood frog, *Rana sylvatica*. *Evolution* 58: 160-165.
- Skelly, D. K.**, K. L. Yurewicz, E. E. Werner, and R. A. Relyea 2003. Estimating decline and distributional change in amphibians. *Conservation Biology* 17:744-751.
- 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.** 2003. How to write a successful Doctoral Dissertation Improvement Grant proposal. *Bulletin of the Ecological Society of America* 84:137-138.
- Skelly, D. K.**, and J. Golon. 2003. Assimilation of natural benthic substrates by two species of tadpoles. *Herpetologica* .
- 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.** 2002. Experimental venue and estimation of interaction strength. *Ecology* 83:2097-2101.
- Skelly, D. K.** 2002. Landscape Ecology. McGraw-Hill Encyclopedia of Science and Technology [www.AccessScience.com].
- Harding, E. K. and the NCEAS Habitat Conservation Plan Working Group. 2001. The scientific foundations of habitat conservation plans: a quantitative assessment. *Conservation Biology* 15:488-500.
- Skelly, D. K.** and J. M. Kiesecker. 2001. Design and outcome in ecological experiments: manipulations of larval anurans. *Oikos* 94:198-208.
- Skelly, D. K.** 2001. Distributions of pond-breeding anurans: an overview of mechanisms. *Israel Journal of Zoology* 47:313-332. [special issue on the ecology of temporary pools]

- Anholt, B. R., E. E. Werner, and **D. K. Skelly**. 2000. Effects of food and predators on the activity of four larval ranid frogs. *Ecology* 81:3509-3521.
- Skelly, D. K.**, K. H. Beard, and N. Hengartner. 2000. Animal-distribution modelling in gap analysis: an evolving science. *Conservation Biology* 14:1224-1225.
- Skelly, D. K.** and L. K. Freidenburg. 2000. Effects of beaver on the thermal biology of an amphibian. *Ecology Letters* 3:483-486.
- Skelly, D. K.** 2000. Patterns of distribution of amphibians: a global perspective (W. E. Duellman, Editor) [book review]. *Quarterly Review of Biology* 75:469.
- Beard, K. H., N. Hengartner, and **D. K. Skelly**. 1999. Effectiveness of predicting breeding bird distributions using probabilistic models. *Conservation Biology* 13:1108-1116.
- Skelly, D. K.**, E. E. Werner, and S. A. Cortwright. 1999. Long-term distributional dynamics of a Michigan amphibian assemblage. *Ecology* 80:2326-2337 .
- Skelly, D. K.** 1999. Experimental Ecology: issues and perspectives (W. J. Resetarits & J. Bernardo, Editors) [book review]. *Copeia* 1999:1137-1138.
- Kareiva, P., S. Andelman, D. Doak, B. Elderd, M. Groom, J. Hoekstra, L. Hood, F. James, J. Lamoreux, G. Lebuhn, C. McCulloch, J. Regetz, L. Savage, M. Ruckelshaus, **D. Skelly**, H. Wilbur and K. Zamudio. 1998. Using science in habitat conservation plans. American Institute of Biological Sciences.
- Kareiva, P., **D. Skelly**, and M. Ruckelshaus. 1997. Reevaluating the use of models to predict the consequences of habitat loss and fragmentation. Pages 156-166 in (S. T. A. Pickett, R. S. Ostfeld, M. Shachak, and G. E. Likens, Editors), *Enhancing the ecological basis of conservation: heterogeneity, ecosystem function, and biodiversity*, Chapman and Hall, New York.
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### **Media Coverage**

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### **Peer Reviewer**

National Science Foundation, Australian Research Council, Department of Defense, Environmental Defense, Environmental Protection Agency, National Science and Engineering Research Council of Canada, Swiss National Science Foundation, National Geographic Society, The Nature Conservancy, U.S. Fish & Wildlife Service, U. S. National Park Service.

American Naturalist, Animal Behaviour, Behavioral Ecology, Biological Conservation, Biological Invasions, Biological Journal of the Linnean Society, Canadian Journal of Fisheries and Aquatic Sciences, Canadian Journal of Forest Research, Canadian Journal of Zoology, Columbia University Press, Conservation Biology, Copeia, Ecological Applications, Ecology/Ecological Monographs, Ecology Letters, Environmental Science & Technology, Herpetologica, Hydrobiologia, Israel Journal of Zoology, Journal of Applied Ecology, Journal of Experimental Zoology, Journal of Herpetology, Journal of Wildlife Management, Nature Climate Change, Northeastern Naturalist, Oecologia, Oikos, PNAS, Princeton University Press, Proceedings of the Royal Society Series B, Quarterly Review of Biology, Sinauer Associates, Wetlands, Yale University Press.

**Doctoral Students**

1998 – 2003 Heinrich zu Dohna (Asst. Prof., American University of Beirut)  
2000 – 2005 M. Anders Halverson (Research Assoc., Univ. of Colorado)  
2001 – 2006 Mark C. Urban (Assoc. Prof, Univ of Connecticut)  
2003 – 2008 Manja P. Holland (College of LS&A, Univ of Michigan)  
2003 – 2008 Eric H. Lee  
2006 – 2012 Jonathan L. Richardson (Asst. Prof., Providence College)  
2007 – 2014 Steven P. Brady (Postdoc, University of Vermont)  
2009 – Mary A. Rogalski (Postdoc, Univ. of Michigan as of 8/2015)  
2011 – Meredith Atwood Holgerson  
2013 – Max Lambert

**Postdoctoral Associates**

1997 – 1999 Joseph Kiesecker (TNC Colorado)  
2002 – 2005 Linda Puth (Research Associate, Yale University)  
2005 – 2007 Tracy Langkilde (Assoc. Prof., Penn State University, winner of ESA  
Mercer Award for Yale-based research)  
2011 – 2013 Phoebe L. Zarnetske (Asst. Prof., Michigan State)  
2012 – Arthur Middleton (winner of Camp Monaco Prize)  
2015 – Lindsey Swierk (Gaylord Donnelly Postdoctoral Fellow)

**Visiting Researchers**

2000 – 2001 Erica Crespi (Assoc. Prof., Washington State University)  
2002 – 2003 Claire Doutrelant (CNRS, Montpellier, France)  
2011- 2012 Peter Smith (Dept. of Comparative Medicine, Yale School of Medicine)