# **Curriculum Vitae**

# **David Kiernan Skelly**

Frank R. Oastler Professor of Ecology Director, Yale Peabody Museum of Natural History ORCID 0000-0002-5067-4535

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195 Prospect Street Email: david.skelly@yale.edu
New Haven, Connecticut 06511 USA http://environment.yale.edu/skelly/

*N.B.* - Prior to 2020, the Yale School of the Environment was named the Yale School of Forestry & Environmental Studies

# 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 the Environment, 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 the Environment, Yale University
2009 - 2014	Director of Doctoral Studies, School of the Environment, Yale University
2013 –	Consulting Faculty, Yale National University of Singapore College
2014 –	Director, Yale Peabody Museum of Natural History (Appt. renewed 2019)

# **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 the Environment

2003, 2006 2003 – 2004 2004 –	Guggenheim Fellowship, John Simon Guggenheim Foundation Senior Research Fellowship, The MacMillan Center for International and Area Studies, Yale University
2011 2016	Fellow, American Association for the Advancement of Science Fellow, Royal Canadian Geographical Society
Teaching Ex	perience
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
1996 – 2017	Aquatic Ecology, Conservation Biology, Landscape Ecology, Habitat Conservation Planning, Hydro-ecology, Graduate Seminar in Ecology, Doctoral Seminar: G. Evelyn Hutchinson, Ecology and the Earth System,
2018 –	First Year Seminar: Collections of the Peabody Museum
2020	Regenerative Building: Research and Design Seminar
	ssional Experience
1994	Consultant, Sierra Club Legal Defense Fund, Portland, Oregon.
1994 – 1995	Consultant, Association of Forest Service Employees for Environmental Ethics, Portland, Oregon.
1994 – 1995 1997 - 1998	Ethics, Portland, Oregon.  Member, Working Group on Habitat Conservation Plans, National Center
	Ethics, Portland, Oregon.  Member, Working Group on Habitat Conservation Plans, National Center for Ecological Analysis and Synthesis, Santa Barbara, California.  Member, Biodiversity Forum, Connecticut Chapter of The Nature
1997 - 1998	Ethics, Portland, Oregon.  Member, Working Group on Habitat Conservation Plans, National Center for Ecological Analysis and Synthesis, Santa Barbara, California.  Member, Biodiversity Forum, Connecticut Chapter of The Nature Conservancy.  Consultant, National Park Service/Environmental Protection Agency, Mid
1997 - 1998 1997 - 2000	Ethics, Portland, Oregon.  Member, Working Group on Habitat Conservation Plans, National Center for Ecological Analysis and Synthesis, Santa Barbara, California.  Member, Biodiversity Forum, Connecticut Chapter of The Nature Conservancy.  Consultant, National Park Service/Environmental Protection Agency, Mid Continent Ecology Lab, Duluth, Minnesota.  Panelist, Ecology Program, Doctoral Dissertation Improvement Grants,
1997 - 1998 1997 - 2000 1999	Ethics, Portland, Oregon.  Member, Working Group on Habitat Conservation Plans, National Center for Ecological Analysis and Synthesis, Santa Barbara, California.  Member, Biodiversity Forum, Connecticut Chapter of The Nature Conservancy.  Consultant, National Park Service/Environmental Protection Agency, Mid Continent Ecology Lab, Duluth, Minnesota.  Panelist, Ecology Program, Doctoral Dissertation Improvement Grants, Division of Environmental Biology, National Science Foundation.  Endangered Species Advisory Committee, Department of Environmental
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1997 - 1998 1997 - 2000 1999 2002, 2003 2002 - 2002 - 2007 2003 - 2009	Ethics, Portland, Oregon.  Member, Working Group on Habitat Conservation Plans, National Center for Ecological Analysis and Synthesis, Santa Barbara, California.  Member, Biodiversity Forum, Connecticut Chapter of The Nature Conservancy.  Consultant, National Park Service/Environmental Protection Agency, Mid Continent Ecology Lab, Duluth, Minnesota.  Panelist, Ecology Program, Doctoral Dissertation Improvement Grants, Division of Environmental Biology, National Science Foundation.  Endangered Species Advisory Committee, Department of Environmental Protection, State of Connecticut.  Director of Postdoctoral Studies, School of the Environment, Yale University  Editorial Board, Ecology/Ecological Monographs, Ecological Society of America  Science Advisory Panelist, U.S. Environmental Protection Agency.  Review of Atrazine effects on Amphibians  National Ecological Observatory Network (NEON) Design Consortium,
1997 - 1998 1997 - 2000 1999 2002, 2003 2002 - 2002 - 2007 2003 - 2009 2003	Ethics, Portland, Oregon.  Member, Working Group on Habitat Conservation Plans, National Center for Ecological Analysis and Synthesis, Santa Barbara, California.  Member, Biodiversity Forum, Connecticut Chapter of The Nature Conservancy.  Consultant, National Park Service/Environmental Protection Agency, Mid Continent Ecology Lab, Duluth, Minnesota.  Panelist, Ecology Program, Doctoral Dissertation Improvement Grants, Division of Environmental Biology, National Science Foundation.  Endangered Species Advisory Committee, Department of Environmental Protection, State of Connecticut.  Director of Postdoctoral Studies, School of the Environment, Yale University  Editorial Board, Ecology/Ecological Monographs, Ecological Society of America  Science Advisory Panelist, U.S. Environmental Protection Agency.  Review of Atrazine effects on Amphibians

2007	Faculty London Association of Vala Alumni Trin Navy Zealand
2007	Faculty Leader, Association of Yale Alumni Trip, New Zealand Panelist, Ecological Biology, Division of Environmental Biology,
2007	National Science Foundation
2007	Science Advisory Panelist, U.S. Environmental Protection Agency.
2007	Review of Atrazine effects on Amphibians
2009	Faculty Leader, Association of Yale Alumni Trip, Mexico
2009 - 2017	Board of Directors, Connecticut Trust for Public Land (Chair 2014-17)
2011 –	Judge, Life Sciences Panel, Blavatnik Awards for Young Scientists, NY
2011	Academy of Sciences
2012	Panelist, Ecology Program, Division of Environmental Biology, National
	Science Foundation.
2012 - 2013	Chair, Envtl. Studies Search Committee, Yale-NUS College, Singapore
2012 - 2017	Advisory Comm., NatureNet Program, The Nature Conservancy
2013	Chair, External Visiting Comm, Envtl Studies Dept, UC Santa Cruz
2013	External Visiting Comm, EEB Program, Dartmouth College
2013 - 2017	Chair, Advisory Board, Connecticut Trust for Public Land
2013 - 2016	Mercer Award Subcommittee, Ecological Society of America
2014	External Visiting Comm., Envtl Studies, Middlebury College
2015 - 2018	E. O. Wilson Award Committee, American Society of Naturalists
2015	External Review Panel, Common Curriculum, Yale-NUS College
2017 –	Advisory Board, The Nature Conservancy Connecticut Chapter
2017	Reader, John Simon Guggenheim Foundation
2017 - 2018	University Science Strategy Committee, Yale University
2018 - 2020	University Research Council, Yale University
2019	Chair, External Review Committee, Dept of Biology, Middlebury College
2020	External Review Committee, Dept of Ecology & Evol Biol., Cornell Univ.
2021	External Review Committee, Natural Reserve System, UC Santa Barbara
Selected Gra	
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
1997 2000	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
1997 2008	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)
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)
2017 - 2018	National Science Foundation Doctoral Dissertation Improvement Grant,
	\$21,763 (PI: D. Skelly; Co-PI: M. Lambert)
_	Summary – Director, Peabody Museum
Total fundrai	sing in excess of \$200M since 2014. Gifts of \$1M and above listed below.
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	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 Envtl. 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

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

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

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 Connecticut Amphibian Monitoring Project Yale College Alumni Reunion CEO Symposium, American Alliance of Museums Meeting Keynote, University of Connecticut BioBlitz
2016	Yale Club, Santa Fe, New Mexico Keynote, Connecticut Association of Wetland Scientists Yale Club of Central New Jersey Keynote, Branford Land Trust, Branford, CT Yale College Alumni Reunion Keynote, Menunkatuck Audubon Society Yale Parents Reception, Seattle Distinguished Speaker Series, Dept. of Biology, Southern Illinois Univ. Bethany Garden Club
2017	Westward Look Symposium, Tucson Gem and Mineral Show Ray Semlitsch Memorial Symposium, Joint Meeting of Ichthyologists and Herpetologists, Austin School of the Environment, Yale University

New Canaan Land Trust

Keynote, Connecticut Association of Conservation & Inland Wetland Commissions

Museum Trustee Association, Philadelphia

2018 Local Adaptation Symposium and Workshop, University of Haifa

Department of Biology, Trinity College

TEDx UConn

Yale NUS College Summer Session, New Haven

Chinese University Leaders Symposium, Yale University Vernal Pool Symposium and Workshop, University of Maine Yale Alumni Assoc. Assembly and Convocation, Yale University

2019 Department of Biology, Purdue University

Yale Alumni Association of SW Florida Yale Science and Engineering Forum

Speaker, Annual Dinner, Yale Club of Washington, DC

Yale Alumni Fund

World Congress of Herpetology, University of Otago, Dunedin, NZ

Yale Alumni Association Board

Yale Club of the Treasure Coast, Florida Harvard Museums of Natural History (virtual) Florida Museum, University of Florida (virtual) Yale Planetary Solutions Symposium (virtual)

Dept of Biology, University of Dayton (virtual)

2022 Keynote, Northeast Partnership for Amphibian and Reptile Conservation

(scheduled)

## **Publications**

#### **Books**

**Skelly, D. K.** and T. J. Near. 2016. Exploration and discovery: treasures of the Yale Peabody Museum of Natural History. Yale University Press, New Haven and London.

**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.

# **Book Chapters**

- **Skelly, D.K.**, A.Z.A. Arietta and M. Lambert. *In Press*. Green frogs thrive in the Suburbs. *In* Feral Atlas: The More Than Human Anthropocene (Eds A. Tsing, J. Deger, A. Keleman, and F. Zhou). Stanford University Press, Palo Alto.
- **Skelly, D.K.** 2017. From Silent Spring to the Frog of War: the forgotten role of natural history in conservation science. Ch. 12 in Effective Conservation Science: Data Not Dogma (Eds. P. Kareiva, M. Marvier, and B. Silliman). Oxford University Press, London.
- Smith, M.D. and **D.K. Skelly**. 2010. Theory: Reflection Thereon. *in* The art of ecology: writings of G. Evelyn Hutchinson, **D. K. Skelly**, D. M. Post, and M. D. Smith (Eds.). Yale University Press, New Haven and London.
- **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.
- 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
- **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.

## Manuscripts in Review and Preparation

- Arietta, A.Z.A., and **D.K. Skelly**. *in preparation*. Drought associated shifts in development and growth rates across two decades in an amphibian. For Global Change Biology.
- 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.

# Peer-Reviewed Publications (h-index: ISI 41, Google Scholar 49)

- 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 press*. Asynchrony, density dependence, and persistence in an amphibian. Ecology.
- Arietta, A.Z.A., and **D.K. Skelly**. 2021. Rapid microgeographic evolution in response to climate change. Evolution 75:2930-2943.

- Gahm, K., A.Z.A. Arietta, and **D.K. Skelly**. 2021. Temperature-mediated tradeoff between development and performance in larval wood frogs (*Rana sylvatica*). Journal of Experimental Zoology Part A: Ecological and Integrative Physiology.
- Lowe, W. H., T. Martin, **D. K. Skelly**, and H. A. Woods. 2021. Metamorphosis in an era of increasing climate variability. Trends in Ecology & Evolution 36:360-375.
- Lambert, M.R., T. Ezaz, and D.K. Skelly. 2021. Sex-biased mortality and sex reversal shape wild frog sex ratios. Frontiers in Ecology and Evolution. 9:756476.
- Gotelli, N.J., D.B. Booher, M.C. Urban, W. Ulrich, A.V. Suarez, **D.K. Skelly**, D.J. Russell, R.J. Rowe, M. Rothendler, N. Rios, S.M. Rehan, G. Ni, C.S. Moreau, A.E. Magurran, F.A.M. Jones, G.R. Graves, C. Fiera, U. Burkhardt, and R.B. Primack 2021. Estimating Species Relative Abundances From Museum Records. Methods in Ecology and Evolution DOI: 10.1111/2041-210X.13705.
- **Skelly, D.K.** 2020. Amphibians of Rhode Island (book review) by Christopher J. Raithel. 2019. Rhode Island Division of Fish and Wildlife. Kingston, Rhode Island. Herpetological Review.
- Arietta, A.Z.A., L. K. Freidenburg; M.C. Urban, S.B. Rodrigues, A. Rubinstein, **D.K. Skelly**. 2020. Phenological delay despite warming in wood frog (*Rana sylvatica*) reproductive timing: a 20-year study. Ecography 43:1791-1800.
- Van Acker, M., Lambert, M., Schmitz, O., and D. K. Skelly. 2019. Suburbanization increases echinostome infection in Green Frogs and Snails. EcoHealth 16:235-247.
- Lambert, M.R., T. Tran. A. Killian. T. Ezaz, and **D. K. Skelly**. 2019. Molecular evidence for sex reversal in wild populations of green frogs (*Rana clamitans*). PeerJ 7:e6449.
- 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 329:72-79.
- Amburgey, S.M., Miller, D.A.W., Grant, E.H.C., Rittenhouse, T.A.G., Benard, M.F., Richardson, J.L., Urban, M.C., Hughson, W., Brand, A.B., Davis, C.J., Hardin, C.R., Paton, P.W.C., Raithel, C.J., Relyea, R.A., Scott, A.F., **Skelly, D.K.**, Skidds, D.E., Smith, C.K., Werner, E.E. 2018. Range position and climate sensitivity: the structure of among-population demographic responses to climatic variation. Global Change Biology 24:439-454.

- 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. 999:1-12.
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- Urban, M.C., P.L. Zarnetske, and **D.K. Skelly**. 2017. Searching for biotic multipliers of climate change. Integrative and Comparative Biology 57:134-147.
- Shepack, A., L. K. Freidenburg, and **D. K. Skelly**. 2017. Species absence in developed landscapes: an experimental evaluation. Landscape Ecology 32:609-615.
- Lambert, M. L., A. B. Stoler, M. S. Smylie, R. A. Relyea, and **D. K. Skelly**. 2016. Interactive effects of road salt and leaf litter on wood frog sex ratios and sexual size dimorphism. Canadian Journal of Fisheries and Aquatic Sciences. 10.1139/cjfas-2016-0324
- Lambert, M. R., **D. K. Skelly**, and T. Ezaz. 2016. Sex-linked markers in the North American green frog (*Rana clamitans*) developed using DArTseq provide early insight into sex chromosome evolution. BMC Genomics 17:844.
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- 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]

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- 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.
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- **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).
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- 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.
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- **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.
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- Ligon, N. F., and **D. K. Skelly**. 2009. Cryptic divergence: countergradient variation in the wood frog. Evolutionary Ecology Research 11:1099-1109.
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- **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.
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- Halverson, M. A., **D. K. Skelly** and A. Caccone. 2006. Kin distribution among amphibian larvae in the wild. Molecular Ecology 15:1139-1145.
- 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.

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- 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.
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- 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.
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- **Skelly, D. K.** 2002. Landscape Ecology. McGraw-Hill Encyclopedia of Science and Technology [www.AccessScience.com].
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- **Skelly, D. K.** 2000. Patterns of distribution of amphibians: a global perspective (W. E. Duellman, Editor) [book review]. Quarterly Review of Biology 75:469.
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- Skelly, D. K. 1997. Tadpole communities. American Scientist 85:36-45.
- **Skelly, D. K.** and E. Meir. 1997. Rule-based models for evaluating mechanisms of distributional change. Conservation Biology 11:531-538.
- Anholt, B. R., **D. K. Skelly**, and E. E. Werner. 1996. Factors modifying antipredator behavior in larval toads. Herpetologica 52: 301-313.

- **Skelly, D. K.** 1996. Pond drying, predators, and the distribution of *Pseudacris* tadpoles. Copeia 1996:599-605.
- Wellborn, G. A., **D. K. Skelly**, and E. E. Werner. 1996. Mechanisms creating community structure across a freshwater habitat gradient. Annual Review of Ecology and Systematics 27:337-363.
- **Skelly, D. K.** 1995. A behavioral trade-off and its consequences for the distribution of *Pseudacris* treefrog larvae. Ecology 76:150-164.
- **Skelly, D. K.** 1995. Competition and the distribution of spring peeper larvae. Oecologia 103:203-207.
- **Skelly, D. K.** 1994. Activity level and the susceptibility of anuran larvae to predation. Animal Behaviour 47:465-468.
- Jones, T. R., **D. K. Skelly**, and E. E. Werner. 1993. *Ambystoma tigrinum tigrinum* (Eastern Tiger Salamander). Developmental polymorphism. Herpetological Review 24:147-148.
- **Skelly, D. K.** 1992. Field evidence for a cost of behavioral antipredator response in a larval amphibian. Ecology 73:704-708.
- **Skelly, D. K.**, and E. E. Werner. 1990. Behavioral and life historical responses of larval American toads to an odonate predator. Ecology 71:2313-2322.
- Sheldon, S. P., and **D. K. Skelly**. 1990. Differential colonization and growth of algae and ferromanganese bacteria in a mountain stream. Journal of Freshwater Ecology 5:475-485.

# **Media Coverage**

PBS Nature Documentary Series, National Public Radio – Talk of the Nation Science Friday, National Public Radio – All Thing Considered, NatGeo Wild, AP, BBC, CNN, Science Magazine, New York Times, Washington Post, Agence France Press, Environment: Yale Magazine, Harper's Magazine, Environmental News Network, National Geographic.com, Nature Science Update, BBC Wildlife Magazine, Boston Globe, Connecticut Public Radio, Hartford Courant, Kansas City Star, Yale Alumni Magazine, Yale Medicine Magazine, Middlebury Magazine, Wildlife News, Australian Broadcasting Corporation, WTIC Radio, NBC30, WTNH.

## 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, Herpetelogica, 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**

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1998 - 2003	Heinrich zu Dohna (Asst. Prof., American University of Beirut)
2000 - 2005	M. Anders Halverson (Author, Research Assoc., U of Colorado,
	National Outdoor Book Award Winner)
2001 - 2006	Mark C. Urban (Professor, UConn; ASN Young Investigator Award)
2003 - 2008	Manja P. Holland (Regional Education Mgr., Natl. Wildlife
	Federation)
2003 - 2008	Eric H. Lee (Freelance Data Scientist)
2006 - 2012	Jonathan L. Richardson (Assoc. Prof., Univ. of Richmond)
2007 - 2014	Steven P. Brady (Asst. Prof., Southern Connecticut State University)
2009 - 2015	Mary A. Rogalski (Asst. Prof., Bowdoin College)
2011 - 2016	Meredith Atwood Holgerson (Asst. Prof., Cornell University)
2013 - 2018	Max Lambert (Aquatic Section Research Manager, Washington Dept
	of Fish and Wildlife)
2015 –	Andis Arietta
2019 –	Yara Alshwairikh
2020 –	Logan Billet

# **Postdoctoral Associates**

1997 – 1999	Joseph Kiesecker (Lead Scientist, The Nature Conservancy)
2002 - 2005	Linda Puth (Lecturer, Research Associate, Yale University)
2005 - 2007	Tracy Langkilde (Prof. and Dean of Science, Penn State University,
	ESA Mercer Award for Yale research)
2011 - 2013	Phoebe L. Zarnetske (Assoc. Prof., Michigan State)
2012 - 2016	Arthur Middleton (Asst. Prof., UC Berkeley, winner Camp Monaco
	Prize, Natl Geographic Society Adventurer of the Year, 2016)
2015 - 2018	Lindsey Swierk (Asst. Research Prof., Binghamton University)
2019 - 2021	Freya Rowland (Scientist, USGS, Columbia Envtl Research Lab)
2020 -	Nate Edelman

# **Visiting Researchers and Students**

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)
2012 - 2013	Sara Zonneveld (Dept of Biosciences, University of Exeter)

# **Masters Students (partial)**

1996	Karen H. Beard (Professor, Utah State University)
2004	Jennifer Molnar (Lead Scientist and Director, Center for Sustainability
	Science, TNC)
2006	Reilly Dibner (Postdoc, University of Wyoming)
2013	Alex Shepack (Doctoral Student, Southern Illinois University)
2015	Geoff Giller (Science and Environmental Writer)
2016	Amber Roman (Consultant, Resource Environmental Solutions,
	Houston)
2020	Ella Schmidt (PhD Student, Center for Limnology, Univ. of Wisc.)
2021	Dahn Young Dong (PhD Student, Univ. of Wisconsin)
2022	Ryan Dougherty
2022	Luca Guadagno
2023	Brandon Sanchez
2023	Sydney Nelson

Undergraduate Students (Partial)		
2004	Livia DeMarchis (Partner, Gravel and Shea Attorneys, Burlington, VT)	
2009	Nisha Ligon (CEO UBongo Edutainment, Tanzania)	
2010	Adrianne Smits (Postdoc, UC Davis)	
2014	Samantha Attwood (Principal, Tech Business Development, Amazon,	
	Seattle)	
2014	Elizabeth Schyling (Environmental Educator, Seattle, Washington)	
2016	Emma Tipton (Policy Associate, Amer Meteorological Society)	
2017	Kimberly Guo (California Climate Action Fellow, City Plants)	
2018	Cesar Garcia Lopez (Masters Student, urban planning, MIT))	
2020	Kaija Gahm (PhD Student, Dept of Ecology & Evol Biology, UCLA)	
2020	Kamau Walker (Teaching Intern, St, Louis)	