

## Curriculum Vitae

### David Kiernan Skelly

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

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### 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 - 2023 Consulting Faculty, Yale National University of Singapore College  
2014 - Director, Yale Peabody Museum (Appt. renewed 2019 and 2024)

### 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 Guggenheim Fellowship, John Simon Guggenheim Foundation

- 2004 – Senior Research Fellowship, The MacMillan Center for International and Area Studies, Yale University  
2011 Fellow, American Association for the Advancement of Science  
2016 Fellow, Royal Canadian Geographical Society

**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  
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

**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 the Environment, 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 - 2017 Board of Directors, Connecticut Trust for Public Land (Chair 2014-17)
- 2011 – Judge, Life Sciences Panel, Blavatnik Awards for Young Scientists, NY Academy of Sciences
- 2012 Panelist, Ecology Program, Division of Environmental Biology, National Science Foundation.
- 2012 – 2013 Chair, Eenvtl. Studies Search Committee, Yale-NUS College, Singapore
- 2012 – 2017 Advisory Comm., NatureNet Program, The Nature Conservancy
- 2013 Chair, External Visiting Comm, Eenvtl 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., Eenvtl 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
- 2023 External Review Comm., Dept. of Biology, Georgetown University
- 2024 External Review Comm., Natural History Museum of Utah

### 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)
- 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)

### **Fundraising Summary – Director, Peabody Museum, 2014 - Present**

*Total fundraising in excess of \$250M. Gifts of \$1M and up listed here.*

- 2015 \$4M to create state of the art mineral gallery
- 2016 \$3M to endow informatics unit, add staff within Museum
- 2017 \$163M toward comprehensive Museum renovation and expansion
- 2018 \$15.5M to create gallery, add staff in renovated Museum
- 2019 \$1M naming gift for museum classroom
- 2020 \$10M naming gift for Peabody Dinosaur Hall
- 2020 \$2M naming gift for Peabody study gallery
- 2022 \$15M gift to support free admission
- 2022 \$30M gift to establish curatorial endowment (incl. 5 faculty lines)
- 2022 \$1M gift for ancient pharmacology initiative
- 2024 \$1.9M unrestricted gift supporting operating expenses

### **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 the Environment, 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
- 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  
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
- 2020 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)
- 2021 Dept of Biology, University of Dayton (virtual)
- 2023 Wallingford Rotary Club  
Yale College Reunions
- 2024 New Haven Rotary Club  
Yale College Reunions
- 2025 Greenwich Field Club, First Fridays  
Madison Historical Society  
East Haddam Rod and Gun Club

**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.**, and L.K. Freidenburg. *In press*. Conservation of Amphibians in the Northeastern United States. Amphibian Biology Vol. 9: Status of Conservation and Decline of Amphibians in the Western Hemisphere; Part 7, Canada and the United States. C. Kenneth Dodd, Jr., Harold Heatwole, Susan King (Editors).

**Skelly, D.K.**, A.Z.A. Arietta and M. Lambert. 2021. 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.

Warburton, A., K. J. MacLeod, L. K. Freidenburg, **D. K. Skelly**, and L. Swierk. *in revision*. Wood Frog (*Rana sylvatica*) Testicular Microstructure Correlates with Plasma Hormone Concentrations During Late-stage Spermatogenesis. Herpetological Conservation and Biology.

***Peer-Reviewed Publications (h-index: ISI 43, Google Scholar 53)***

Billet, L.S. and **D. K. Skelly**. *In press*. Sublethal effects of a mass mortality agent: pathogen-mediated plasticity of growth and development in a widespread North American amphibian. *Frontiers in Amphibian and Reptile Science*.

Billet, L.S., Y. Alshwairikh, L. K. Freidenburg, A. Rubinstein, S. Tracy, S. Nelson, **D. K. Skelly**. 2024. Long-term decline of the spotted salamander (*Ambystoma maculatum*) in an undeveloped landscape. *Herpetologica* 80:11-21.

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. 2023. Estimating species relative abundances from museum records. *Methods in Ecology and Evolution* 14:431-443.

Sommer, N. R., Y.A. Alshwairikh, A.Z.A. Arietta, **D. K. Skelly**, and R. W. Buchkowski. 2023. Prey metabolic responses to predators depend on predator hunting mode and prey antipredator defenses. *Oikos* e09664.

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**. 2022. Asynchrony, density dependence, and persistence in an amphibian. *Ecology* e3696.

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.
- Rogalski, M. A., P.R. Leavitt, and **D.K. Skelly**. 2017. Daphniid zooplankton assemblage shifts in response to eutrophication and metal contamination during the

- Anthropocene. Proceedings of the Royal Society. B 284 (1859), 20170865.
- Crump, P., K. Berven, T. E. Youker-Smith, **D. Skelly**, S. Thomas, and J. Houlihan. 2017. Predicting Anuran Abundance Using an Automated Acoustics Approach. *Journal of Herpetology* 51:582-589.
- 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.
- Holgerson, M., D. M. Post, **D. K. Skelly**. 2016. Reconciling the role of terrestrial leaves in pond food webs: A whole-ecosystem experiment. *Ecology*. 97:1771–1782.
- Lambert, M. R. and **D. K. Skelly**. 2016. Diverse sources for endocrine disruption in the wild. *Endocrine Disruptors*. 4: e1148803. [commissioned commentary]
- Lambert, M.R., G.S.J. Giller, **D. K. Skelly** and R. G. Bribiescas. 2016. Septic systems, but not sanitary sewer lines, are associated with elevated estradiol in male frog metamorphs from suburban ponds. *General and Comparative Endocrinology* 232:109-114.
- 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.
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### Media Coverage: Research

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### Select Media Coverage: Yale Peabody Museum

["Connecticut museum reopens with first brontosaurus found in US". TODAY.com.](#)

Thomas, Amy (2024-04-15). ["Beyond Pizza and Yale: What to See, Eat and Do in New Haven". The New York Times. ISSN 0362-4331.](#)

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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 (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 Educ. 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 (Assoc. 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 (Dir. of Science, Washington Nature Conservancy)
2015 – 2022	Andis Arietta (Data Scientist, Teach for America)
2019 –	Yara Alshwairikh (Postdoc at AMNH starting June 2025)
2020 –	Logan Billet
2022 –	Samantha Tracy
2024 –	Julia Portmann

### Postdoctoral Associates

1997 – 1999	Joseph Kiesecker (Lead Scientist, The Nature Conservancy)
2002 – 2005	Linda Puth (Lecturer, Research Associate, Yale University)
2005 – 2007	Tracy Langkilde (Acting Provost, Penn State University, ESA Mercer Award for Yale research)
2011 – 2013	Phoebe L. Zarnetske (Assoc. Prof., Michigan State)
2012 – 2016	Arthur Middleton (Assoc. 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 (Research Ecologist, USGS, Columbia Env'tl Res Ctr)
2020 – 2022	Nate Edelman (Genomic Scientist, Childrens Hospital Colorado)
2024 –	David Klinges
2025 –	Dylan Padilla Perez

**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)
1998	Shelley Greene (Science, TNC Connecticut)
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
2025	Kaley Sperling

**Undergraduate Students (Partial)**

2004	Livia DeMarchis (Partner, Gravel and Shea Attorneys, Burlington, VT)
2009	Nisha Ligon (CEO UBongo Edutainment, Tanzania)
2010	Adrienne Smits (Postdoc, UC Davis)
2014	Samantha Attwood (Sr Manager, Tech Bus. Dev., Tech. Licensing, Amazon, Seattle)
2014	Elizabeth Schyling (Seattle Public Schools)
2016	Emma Tipton (Policy Fellow, Amer Meteorological Society)
2017	Kimberly Guo (Associate, Better World Group)
2018	Cesar Garcia Lopez (Masters Student, urban planning, MIT)
2020	Kaija Gahm (PhD Student, Dept of Ecology & Evol Biology, UCLA)
2020	Kamau Walker (MFA student, University of Virginia)
2022	John-Gabriel Bermudez