

David M. Post

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EDUCATION:

- Ph.D. Cornell University, Ecology and Evolutionary Biology. 2000.
M.S. University of Wisconsin - Madison, Zoology. 1996.
B.S. University of Wisconsin - Madison, Wildlife Ecology. 1992.

EMPLOYMENT:

- 2008 - Associate Professor, Dept. of Ecology and Evol. Bio., Yale University.
2002 - 2008 Assistant Professor, Dept. of Ecology and Evol. Bio., Yale University.
2000 - 2002 Postdoctoral Fellow, NCEAS, University of California, Santa Barbara.
1996 - 2000 Research Fellow, NSF Graduate Research Training Grant for Human Accelerated Environmental Change at Cornell University and the Institute of Ecosystem Studies.
1994 - 1996 Research Fellow, Electric Power Research Institute Fellowship Program in Population Ecology.
1993 Research Assistant, Trophic Cascade Project (NSF, S.R. Carpenter and J.F. Kitchell).
Volunteer Technician, Antarctic LTER research cruise.
1992 Research Fellow, UW-Madison Undergraduate Faculty Research Fellowship

AWARDS & FELLOWSHIPS:

- 2005 - 2006 Yale University Junior Faculty Fellowship (one year research sabbatical).
2003 The **2003 IRPE Prize** for a young ecologist (<40 yrs) who has published uniquely independent, original and/or challenging research representing an important scientific breakthrough.
2002 **Raymond L. Lindeman Award** from the American Society of Limnology and Oceanography for an outstanding paper by a young (<35 yrs) aquatic scientist (for Post *et al.* 2000. *Nature* 405:1047-1049).
2001 **L.C. Cole Award** for the outstanding publication by a graduate student of the Department of Ecology and Evolutionary Biology, Cornell University (for Post *et al.* 2000. *Nature* 405:1047-1049).

- 2001 DIALOG IV Symposium participant (Sponsored by the American Society of Limnology and Oceanography)
- 2000 - 2002 Postdoctoral Fellowship, National Center for Ecological Analysis and Synthesis,
- 2000 **R.H. Whittaker Award** for the outstanding oral presentation at the Ecology and Evolutionary Biology Annual Symposium, Cornell University.
- 1996 – 2000 NSF Graduate Research Training Fellowship at Cornell University and the Institute of Ecosystem Studies.
- 1994 – 1996 Graduate Fellowship, Electric Power Research Institute, Compensatory Mechanisms Project, Fellowship Program in Population Ecology.
- 1992 Hilldale Award, UW-Madison Undergraduate Research Fund.

PROPOSALS FUNDED:

- 2007-2010 Testing the effects of intraspecific phenotypic variation on community structure and dynamics in coastal lakes: revisiting size selective predation by alewives. National Science Foundation. NSF-DEB # 0717265. \$568,860
- 2006-2007 Restoration of river herring to Pisgah Brook and Linsley Pond: patterns of population recovery and ecological effects. Long Island Sound Fund. \$25,000
- 2004-2006 The dual influences of Alewives, *Alosa pseudoharengus*, on inland water quality: nutrient fluxes and food web effects. Connecticut Institute of Water Resources. \$50,355
- 2003-2007 Food-chain length in streams: testing the role of ecosystem size, resource availability and disturbance. National Science Foundation. NSF-DEB #0316679. \$83,958

PUBLICATIONS:

- In press **Post, D.M.**, and E.P. Paklovacs. In press. Eco-evolutionary feedbacks in community and ecosystem ecology: interactions between the ecological theater and the evolutionary play. *Philosophical Transactions of the Royal Society B* in press pending final editorial approval.
- Sabo, J.L., J.C. Finlay and **D.M. Post**. In press. The determinants of food-chain length in freshwater. *The Year in Ecology and Conservation Biology* 2008.
- Palkovacs, E.P., and **D.M. Post**. In press. Experimental evidence that phenotypic divergence in predators drive community divergence in prey. *Ecology* in press.
- Dalton, C.M., D. Ellis, **D.M. Post**. In press. The impact of Double-crested Cormorant predation on anadromous alewives in south-central Connecticut. *Canadian Journal of Fisheries and Aquatic Sciences* in press.

Walters, A.W., and **D.M. Post**. In press. Anadromous alewives contribute marine-derived nutrients to coastal stream food webs. *Canadian Journal of Fisheries and Aquatic Sciences* in press pending final editorial approval.

Post, D.M. and A.W. Walters. In press. Nutrient excretion rates of anadromous alewives during their spawning migration. *Transactions of the American Fishery Society*, in press.

2008 **Post, D.M.**, E.P. Palkovacs, E.G. Schielke, and S.I. Dodson. 2008. Intraspecific phenotypic variation in a predator affects zooplankton community structure and cascading trophic interactions. *Ecology* 89: 2019-2032.

Walters, A.W. and **D.M. Post**. 2008. An experimental disturbance alters fish size-structure, but not food-chain length in streams. *Ecology* 89:000-000

Takimoto, G., D.A. Spiller, and **D. M. Post**. 2008. Ecosystem size, but not disturbance, determines food-chain length on islands in the Bahamas. *Ecology* 89:3001-3007

Paetzold, A., M. Lee, and **D.M. Post**. 2008. Marine resource flows to terrestrial arthropod predators on a temperate island: the role of subsidies between systems of similar productivity. *Oecologia* 157:653-659

Palkovacs, E.P., and **D.M. Post**. 2008. Eco-evolutionary interactions between predators and prey: can predator-induced changes to prey communities feedback to shape predator foraging traits? *Evolutionary Ecology Research* 10:699-720.

Layman, C.A., and **D.M. Post**. 2008. Can stable isotope ratios provide for community-wide measures of trophic structure? Reply. *Ecology* 89:2358-3259.

Sabo, J. L. and **D. M. Post**. 2008. Quantifying periodic, stochastic and catastrophic variation in the environment using time series of environmental conditions. *Ecological Monographs* 78:19-40.

Palkovacs, E.P., K.B. Dion, **D.M. Post**, and A. Caccone. 2008. Independent evolutionary origin of landlocked alewife populations and rapid parallel evolution of phenotypic traits. *Molecular Ecology* 17:582-597.

2007 **Post, D.M.** 2007. Testing the productive space hypothesis: rational and power. *Oecologia* 153:973-984.

Post, D.M., D.A. Arrington, C.A. Layman, G. Takimoto, J. Quattrochi, and C. G. Montaña. 2007. Getting to the fat of the matter: models, methods and assumptions for dealing with lipids in stable isotope analyses. *Oecologia* 152:179-189.

Post, D.M. and G. Takimoto. 2007. Proximate structural mechanisms for variation in food-chain length. *Oikos* 116:775-782.

Post, D.M., M.W. Doyle, J.L. Sabo, and J.C. Finlay. 2007. The problem of boundaries in defining ecosystems: a potential landmine for uniting geomorphology and ecology. *Geomorphology* 89:111-126.

- Layman, C.A., D.A. Arrington, C.G. Montaña and **D.M. post**. 2007. Can stable isotope ratios provide for community-wide measures of trophic structure? *Ecology* 88:42-48.
- 2005 Puth, L.M., and **D.M. Post**. 2005. Studying invasion: have we missed the boat? *Ecology Letters* 8:715-721.
- 2004 Moore, J.C, E.L. Berlow, D.C. Coleman, P.C. de Ruiter, Q. Dong, A. Hastings, N.C. Johnson, K.S. McCann, K. Melville, P.J. Morin, K. Nadelhoffer, A.D. Rosemond, **D.M. Post**, J.L. Sabo, K.M. Scow, M.J. Vanni, and D.H. Wall. 2004. Detritus, trophic dynamics, and biodiversity. *Ecology Letters* 7:584-600. (an ISI Highly Cited paper)
- 2003 **Post, D.M.** 2003. Individual variation in the timing of ontogenetic niche shifts in largemouth bass. *Ecology* 84:1298–1310.
- 2002 Williams, J.W., **D.M. Post**, L.C. Cwynar, A.F. Lotter, and A.J. Levesque. 2002. Vegetation responses to past rapid climate change. *Geology*. 30:971-974.
- Post, D.M.** 2002. The long and short of food-chain length. *Trends in Ecology and Evolution* 17:269-277.
- Post, D.M.** 2002. Using stable isotopes to estimate trophic position: models, methods, and assumptions. *Ecology*, 83:703-718. [**The most cited paper in the journal Ecology in the past decade (1999-2008)**]
- 2001 Hairston, H.G., Jr., C.L. Holtmeier, W. Lampert, L.J. Weider, **D.M. Post**, J.M. Fischer, C.E. Cáceres, J.A. Fox, and U. Gaedke. 2002. Natural selection for grazer resistance to toxic cyanobacteria: the evolution of phenotypic plasticity. *Evolution* 55:2203-2214
- Shurin, J., S. Gergel, D. Kaufman, **D. Post**, E. Seabloom, and J. Williams. 2001. Letter: in defense of ecology. *The Scientist* 15:6.
- 2000 **Post, D.M.**, M.L. Pace, and N.G. Hairston Jr. 2000. Ecosystem size determines food-chain length in lakes. *Nature* 405:1047-1049.
- Post, D.M.**, M.E. Conners, and D.S. Goldberg. 2000. Prey preference by a top predator and the stability of linked food chains. *Ecology* 81:8-14.
- 1999 Hairston, N.G., Jr., W. Lampert, C.E. Cáceres, C.L. Holtmeier, L.J. Weider, U. Gaedke, J.M. Fischer, J.A. Fox, **D.M. Post**. 1999. Dormant eggs record rapid evolution. *Nature* 401:446.
- Sanderson, B.L., T.R Hrabik, J.J. Magnuson, and **D.M. Post**. 1999. Cyclic dynamics of a yellow perch (*Perca flavescens*) population in an oligotrophic lake: evidence for the role of intraspecific interactions. *Canadian Journal of Fisheries and Aquatic Sciences* 56:1534-1542.
- Kitchell, J.F., D.E. Schindler, B.R. Herwig, **D.M. Post**, M.H. Olson, and M. Oldham. 1999. Nutrient cycling at the landscape scale: the role of diel foraging migrations by geese at the Bosque del Apache National Wildlife Refuge, New Mexico. *Limnology and Oceanography* 44:828-836.

- 1998 **Post, D.M.**, J.P. Taylor, J.F. Kitchell, M.H. Olson, D.E. Schindler, and B.R. Herwig. 1998. The role of migratory waterfowl as nutrient vectors in managed wetlands. *Conservation Biology* 12:910-920.
- Post, D.M.**, J.F. Kitchell, and J.R. Hodgson. 1998. Interactions among adult demography, spawning date, growth rate, predation, overwinter mortality, and the recruitment of largemouth bass in a northern lake. *Canadian Journal of Fisheries and Aquatic Sciences* 55:2588-2600.
- 1997 **Post, D.M.**, S.R. Carpenter, D.L. Christensen, K.L. Cottingham, J.F. Kitchell, D.E. Schindler, and J.R. Hodgson. 1997. Seasonal effects of variable recruitment of a dominant piscivore on pelagic food web structure. *Limnology and Oceanography* 42:722-729.
- Post, D.M.**, and J.F. Kitchell. 1997. Trophic ontogeny and life history effects on interactions between age-0 fishes and zooplankton. *Archiv für Hydrobiologie, Advances in Limnology* 49:1-12.
- Hansson, S., **D.M. Post**, J.F. Kitchell, and T.S. Mc Comish. 1997. Interactions of yellow perch (*Perca flavescens*) and alewife (*Alosa pseudoharengus*) in southern Lake Michigan: a model analysis. Pages 7-20 in Forage Fishes in Marine Ecosystems. Alaska Sea Grant Program. AK-SG-97-01.
- 1996 Carpenter, S.R., J.F. Kitchell, K.L. Cottingham, D.E. Schindler, D.L. Christensen, **D.M. Post**, and N. Voichick. 1996. Chlorophyll variability, phosphorus input and grazing: evidence from whole-lake experiments. *Ecology* 77:725-735.
- Johnson, J.M. and **D.M. Post**. 1996. Morphological constraints on intra-cohort cannibalism in age-0 largemouth bass. *Transactions of the American Fisheries Society* 125:809-812.
- 1995 Carpenter, S.R., D.L. Christensen, J.J. Cole, K.L. Cottingham, X. He, J.R. Hodgson, J.F. Kitchell, S.E. Knight, M.L. Pace, **D.M. Post**, D.E. Schindler, N. Voichick. 1995. Biological control of eutrophication in lakes. *Environmental Science & Technology* 29:784-786.
- Post, D.M.**, T.M. Frost, and J.F. Kitchell. 1995. Morphological responses by *Bosmina longirostris* and *Eubosmina tubicen* to changes in copepod predator populations during a whole-lake acidification experiment. *Journal of Plankton Research* 17:1621-1632.

MANUSCRIPTS IN REVIEW:

MANUSCRIPTS IN PREP:

Schielke, E.G., E.P. Palkovacs, and **D.M. Post**. Intraspecific phenotypic variation drives niche differentiation in alewife. To be submitted to *Ecology*.

Hanley, T.C., S.C. Stearns, and **D.M. Post**. The effects of alewife predation in the field on the stoichiometry of *Daphnia* life history.

Post, D.M. Food chain length and ecosystem size: a null model. To be submitted to *Ecology*

West, D., A.W. Walters, S. Gephart, and **D.M. Post**. Nutrient loading by anadromous alewives: contemporary patterns and predictions for restoration efforts. To be submitted to *CJFAS*

Post, D.M., and P.A. Raymond. When do forests feed fish? the influence of ecosystem size on carbon flow into and through lake food webs. To be submitted to *Limnology and Oceanography*

Post, D.M. When is a piscivore not a piscivore: reintegrating the energy flow, interaction strength duality into food web theory. To be submitted to *American Naturalist*.

Puth, L.M., **D. M. Post**, and T. F. H. Allen. Plankton community structure and change in small rock pools. To be submitted to *Limnology and Oceanography*.

BOOKS:

In press Skelly, D.K., **D.M. Post**, and M.D. Smith (Editors). The art of ecology: the writings of G. Evelyn Hutchinson. Yale University Press.

In prep Editorial Board Member. Foundations of Ecology II: Classic Papers with Commentaries. Thomas Miller and Joe Travis editors. University of Chicago Press

INVITED SEMINARS:

2008 Eco-evolution symposium, Silwood Park, Imperial College London.

Cornell University, Biological Field Station

Cornell University, Dept. Ecol. and Evol. Bio.

SUNY Stony Brook, Dept. of Ecology and Evolutionary Biology

2007 University of Wyoming, Dept. of Zoology and Physiology.

EAWAG, Kastanienbaum, Switzerland.

2006 Brown University, Dept. of Ecology and Evolutionary Biology

Dartmouth College, Dept. of Biology

The University of Chicago, Dept. of Ecology and Evolutionary Biology.

2005 36th International Binghamton Geomorphology Symposium, Buffalo, NY.
Plenary presentation.

Marine Biological Laboratory, Woods Hole, MA

2004 Umeå University, Dept. of Ecology and Environmental Science

- Uppsala University, Dept. Ecology and Evolutionary Biology
Harvard University, Harvard Forest
Penobscot River Science Forum, University of Maine. Plenary presentation.
University of Connecticut, Marine Sciences Program Seminar Series
- 2003 Ecological Society of America, Savannah, GA
- 2002 University of Connecticut, Dept. of Ecology and Evolutionary Biology
University of Texas A&M, Wildlife and Fisheries Sciences
Cornell University, Dept. of Ecology and Evolutionary Biology
- 2001 Tenth North American Arctic Goose Conference. Quebec City, Canada. Plenary presentation
Yale University, Dept. of Ecology and Evolutionary Biology
Washington University, St. Louis, Department of Biology
- 2000 University of California, San Diego, Dept. of Ecol. and Evol. Bio.
University of California, Santa Barbara, Ecol. Evol. & Marine Bio.
- 1999 University of Maine, Department of Biology
Madison Audubon Society, Madison, Wisconsin
- 1996 Stockholm University, Stockholm, Sweden. Dept. Systems Ecology

CONTRIBUTED PAPERS:

- 2008 Ecological Society of America, Milwaukee, WI.
- 2007 American Society of Limnology and Oceanography, Santa Fe, NM
North American Benthological Society, Charleston, SC
- 2005 Ecological Society of America, Montreal, Canada.
- 2002 Ecological Society of America, Tucson, AZ.
- 2001 Ecological Society of America, Madison, WI.
American Geophysical Union, San Francisco, CA.
- 2000 Ecological Society of America, Snowbird, Utah.
- 1999 Ecological Society of America, Spokane, Washington.
Annual Meeting of the Pocono Comparative Lakes Program. Lacawac, Pennsylvania.
North American Benthological Society, Duluth, Minnesota.
- 1997 American Society of Limnology and Oceanography winter meeting, Santa Fe, New Mexico.
Ecological Society of America, Albuquerque, New Mexico.

- 1996 Sevilleta Synthesis Symposium, New Mexico.
Plankton Ecology Group workshop on “Trophic interactions of age-0 fish and zooplankton in temperate waters.” Dresden, Germany.
Ecological Society of America, Providence, Rhode Island.
Annual Meeting of the Pocono Comparative Lakes Program. Lacawac, Pennsylvania.
- 1995 Ecological Society of America, Snow Bird, Utah.
- 1994 Midwest Fish and Wildlife Conference, Indianapolis.
- 1993 American Society of Limnology and Oceanography, Edmonton, Alberta, Canada.

PROFESSIONAL ACTIVITIES:

- Research collaborations: Guest Researcher, Lake Ecosystem Response to Environmental Change, Swedish Research Council (Umeå and Uppsala Universities, Sweden).
- Editorial Boards: Oecologia (2002 - 2006)
Foundations of Ecology II: Classic Papers with Commentaries
- Board of Directors: Wisconsin’s Environmental Decade (1983-1994; executive board 1990-1992)
- Outreach and Education: Sand County Foundation – Wisconsin River Project. Outreach and education for a dam removal project along the Baraboo River, WI (1998-1999). Hopkins School, Ecology class, sampling Linsley Pond (2003-2006)
- Reviewer for: American Naturalist, Archiv für Hydrobiologie, Canadian Journal of Fisheries and Aquatic Sciences, Ecology, Ecological Monographs, Hudson River Foundation, Journal of Fish Biology, Journal of Plankton Research, Journal of Theoretical Biology, Limnology and Oceanography, National Science Foundation (USA), Natural Environmental Research Council (UK), Oecologia, Oikos, Proceedings of the National Academy of Science, Regulated Rivers, Transactions of the American Fisheries Society, Trends in Ecology and Evolution.
- Committees/Services: Raymond L. Lindeman Award Committee (outstanding paper by a young aquatic scientist), American Society of Limnology and Oceanography (2006 - present)
- Biogeosciences Section, Best Paper in Biogeochemistry by a Young Scientists Award Committee, Ecological Society of American (2007- present)

Yale University, Dept. Ecology and Evolutionary Biology
Search Committees: Ecologist (2001, 2006, 2007), Behavioral
or Physiological Ecologist (2002)
Qualifying Exam Committee (2002, 2004, 2006)
New Graduate Student Advisory Comm. (2002-04, 2006-07)
Acting Director, YIBS Center for Field Ecology (2005-2006)
Assist. Director, YIBS Center for Field Ecology (2006-present)
Faculty Board, Environmental Studies Program (2006-present)

Cornell University, Dept. Ecology and Evolutionary Biology
President, E&EB Graduate Student Association (1996-97)

Societies

American Society of Naturalists
American Society of Limnology and Oceanography
Ecological Society of America