

Bryan S. Windmiller

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Curriculum Vitae

Education

Ph.D. Biology. Tufts University (1996). Thesis: The Pond the Forest and the City: Spotted Salamander Ecology and Conservation in a Human-Dominated Landscape.

M.A. Environmental Policy. Tufts University (1987-89). Thesis: The Limitations of Massachusetts Regulatory Protection for Temporary Pool-Breeding Amphibians.

B.A. Biology. Bates College (1977-1982). Research: An Anti-predator Defense in the Limpet, *Notoacmea scutum*.

Ecological Consulting and Management

Hyla Ecological Services. Principal and founder, 1992-2006. Projects including:

- Rare Species and Vernal Pool habitat assessments, studies, and permitting.
- Wildlife and botanical inventories of government and private properties.
- Incorporation of wildlife conservation into municipal Open Space Plans.
- Research on rare species demographics and habitat utilization.
- Consulting biologist to Massachusetts raccoon immunization/rabies control project.

Lelito Environmental Consultants. Wetland Ecologist, 1989-1992. Wetland delineation and inventories of wetland flora/fauna; mitigation design, oversight and assessment.

Massachusetts Natural Heritage and Endangered Species Program. Intern, assisted in creation and organization of vernal pool conservation program, 10/89 - 6/90.

Appointments and Teaching Experience

Visiting Scholar: James Cook University, Amphibian Disease and Ecology Group, Townsville, Australia. Research fellow investigating epidemiology of chytridiomycosis infection of Australian rainforest frogs. (2006 – 2007).

Instructor: Teaching courses in: “Inventory and Monitoring of Amphibians and Reptiles” and “Vernal Pool Ecology and Conservation”, one-week professional seminars at Humboldt Field Research Institute, Steuben, Maine. (2003 – ongoing).

Adjunct Professor: Taught graduate-level course in “Wetlands Ecology”, Radcliffe College Landscape Design Seminars, Harvard University (1997 and 1999).

Graduate Student Committee Member: Tufts University (Rebecca Homan, Ph.D. 2002 and Jon Regosin, Ph.D. 2003) and University of New Hampshire (Jessica Veysey, M.S. 2007).

Member: Massachusetts Audubon Society Council and Scientific Advisory Committee (ongoing).

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Assoc. Member: MA Natural Heritage and Endangered Species Program Advisory Comm.(ongoing).

Member: Editorial Board and occasional Guest Editor for two peer-reviewed journals: Northeastern Naturalist and Southeastern Naturalist (ongoing).

Chairman and Member, Concord, MA Natural Resources Commission (member, 1992-1997).

Grants, Fellowships, and Awards

Mass. Natural Heritage Program: Conservation biology research grants and contracts, 1992-present.

Research grants for developing a conservation and management plan for a population of the threatened turtle species, *Emydoidea blandingii* – grants from Concord Land Conservation Trust, Town of Concord, MA, United States Fish and Wildlife Service, and Harvard University, 2003 – present.

Center for Environmental Management/U.S. E.P.A, graduate student fellowship, 1993.

Sigma Xi, graduate student research grant, 1992.

Seibert Award, from Society for the Study of Amphibians and Reptiles for best student paper, 1992 Annual Conference, El Paso, TX

Society of Wetland Scientists Award for best student paper, 1995 Annual Conference, Boston, MA
United Nations Environment Programme, Post-Graduate Fellowship in Biological Conservation and Management, 1991.

Publications

- Windmiller, B. and A. Calhoun. *In Press*. Best management practices for residential and commercial development near vernal pools. Pp. 237-256 in A. Calhoun and P. deMaynadier (eds.), *Vernal Pools in Northeastern North America*. CRC Press.
- Windmiller, B., R. Homan, J. Regosin, L. Willitts, D. Wells, and J. M. Reed. *In press*. Two case studies of declines in vernal pool– breeding amphibian populations following loss of adjacent upland forest habitat. In J.C. Mitchell and Robin E. Jung (eds.), *Urban Herpetology*. Herpetological Conservation No. 3, Society for the Study of Amphibians and Reptiles, Salt Lake City, Ut.
- Clark, P., J. M. Reed, B. Windmiller, and J. Regosin. *In press*. Comparing urbanization indices and their effects on spotted salamander (*Ambystoma maculatum*) and wood frog (*Rana sylvatica*) presence and abundance. In J.C. Mitchell and Robin E. Jung (eds.), *Urban Herpetology*. Herpetological Conservation No. 3, Society for the Study of Amphibians and Reptiles, Salt Lake City, Ut.
- Homan, R., B. Windmiller, and J. M. Reed. *In review*. Demographic clues about differences in relative vulnerabilities of two sympatric *Ambystoma* species. *Copeia*.
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- Regosin, J., B. Windmiller, R. Homan and J. M. Reed. 2005. Variation in terrestrial habitat use by four pool-breeding amphibian species. *Journal of Wildlife Management* 69(4):1481-1493.
- Regosin, J., B. Windmiller, and J. M. Reed. 2004. Effects of conspecifics on the burrow occupancy behavior of spotted salamanders (*Ambystoma maculatum*). *Copeia*. 2004(1):152-158.
- Homan, R., B. Windmiller, and J. M. Reed. 2004. Critical thresholds associated with habitat loss for two vernal pool-breeding amphibians. *Ecological Applications* 14(5): 1547-1553.
- Durand, J, B. Windmiller, and F. P. Richards. 2004. Vernal Pool Identification and Protection - Current and Future Permitting Implications. Proc. of the Environmental Concerns in Right-of-Way Management Conference. Saratoga Springs, NY.
- Homan, R., J. M. Reed, and B. Windmiller. 2003. Analysis of spotted salamander (*Ambystoma maculatum*) growth rates based on long-bone growth rings. *J. Herpetol.* 37(3): 617-621.
- Homan, R., J. Regosin, D. Rodrigues, J. M. Reed, B. Windmiller, and L. M. Romero. 2003. Impacts of varying habitat quality on the physiological stress of spotted salamanders (*Ambystoma maculatum*). *Animal Conservation*. 6(1):11-18.
- Regosin, J. and B. Windmiller. 2003. Terrestrial Habitat Use and Winter Densities of the Wood Frog (*Rana sylvatica*). *J. Herpetology*. 37(2):390-394.
- Regosin, J., B. Windmiller, and J. M. Reed. 2003. Influence of abundance of small-mammal burrows and conspecifics on the density and distribution of spotted salamanders (*Ambystoma maculatum*) in terrestrial habitats. *Can. J. Zool.* 81:596-605.
- A.H. Robbins, M.D. Borden, B. Windmiller, M. Niezgoda, L.C. Marcus S.M. O'Brien, S. Kreindel, M. McGuill, A. DeMaria Jr., C. Rupprecht, S. Rowell. Prevention of the spread of rabies to wildlife by oral vaccination of raccoons in Massachusetts. 1998. *Journal of the American Veterinary Medical Association* 213:1407-1412.
- Windmiller, B. 1996. Tracking techniques useful for field studies of anuran orientation and movement. *Herpetological Review* 27(1):13-15.
- Jarman, N., R. Dobbertein, B. Windmiller, and P. Lelito. 1991. Evaluation of created freshwater wetlands in Massachusetts. *Restoration and Management Notes* 9(1):26-29.
- Windmiller, B. 1990. The difficulty of protecting vernal pool ecosystems: Perspectives from a study of wood frog and mole salamander breeding habitat in northeastern Massachusetts. Pp. 1-43 in: *Wetlands Law and Policy: What You Need to Know*. Wetlands Education Inst. Boston, MA.
- swWindmiller, B., and R. Dobbertein. 1989. Control of purple loosestrife (*Lythrum salicaria*) through competitive plantings. *Restoration and Management Notes* 7(2):101.