

## KATHERINE L. DOYLE

50 Amherst Road  
Pelham, MA 01002  
(413) 256-8704  
kdoyle@bio.umass.edu

### EDUCATION

M.S. Wildlife Biology, University of Massachusetts Amherst 1997.  
B.S. Wildlife Biology, University of Massachusetts Amherst 1990.

### PROFESSIONAL EXPERIENCE

#### Research and museum experience

2002 *Research Assistant* – Assisted with field work involving the capture and handling of bats in the Dominican Republic and Jamaica.

2001 *Mammalogist* - Conducted small mammal and Andean Mountain cat surveys at Lake Sibinacocha, a high altitude lake in the Department of Cusco, Peru. Survey methods included Sherman and Tomahawk livetraps to conduct mark-recapture study of small mammals in talus slope habitat. Also used active beam and passive infrared Trailmaster camera traps in an attempt to detect the presence of Andean Mountain cats in the area. Collected possible Andean Mountain cat scat and track samples.

2000 *Mammalogist* - Member of a 19-member research expedition to the Cordillera Carabaya in the Andean highlands of Peru for National Geographic Expeditions Council. Responsible for surveying mammals of the puna region of southeastern Peru. Methods included live and snap traps to detect the presence of small mammal species along an elevational gradient from lower elevation cloud forest to high altitude puna habitat. Also used remote triggered camera traps, collected scat, and photo-documented tracks to detect the presence of Andean Mountain cats.

1996-present *Collection Manager*, Mammals and Birds, University of Massachusetts Amherst - Responsible for specimen preparation, acquisition, and installation. Manage collection databases, process specimen loans and information requests. Supervise student volunteers and give lectures to students and the general public. In addition, I conduct research on small mammal community ecology and natural history in eastern mixed-deciduous forests. This research has resulted in the documentation of new locations for 2 state-listed small mammal species.

1992-1995 *Biological Technician*, USDA Forest Service Northeast Experiment Station, Amherst, MA - Conducted vernal pool research including small mammal, amphibian, and aquatic invertebrate sampling and identification. Also conducted water quality sampling and habitat analysis.

1987-1992 *Research Technician*, Massachusetts Cooperative Fisheries and Wildlife Research Unit, US Fish and Wildlife Service, Amherst, MA - Assisted with an acid rain mitigation research project. Main duties included water quality sampling, invertebrate and fish sampling and identification.

1981-1982 *Assistant Zookeeper*, Ecotarium, Worcester, MA - Responsible for the care and handling of zoo animals ranging from small amphibian and reptiles to mountain lions and polar bears. Supervised 50 student volunteers. Gave demonstrations to the general public.

### **Teaching experience**

2002 – Instructor for Mammalogy lab (BIO 548). University of Massachusetts Amherst.

2000 - Lecturer for Marine Vertebrates (BIO 397C). University of Massachusetts Amherst.

1997-present - Specimen preparation labs and select lectures for Mammalogy (BIO 548). University of Massachusetts Amherst.

1997-present - Outreach presentations to K-12 school groups. University of Massachusetts Amherst.

1996-1998 - Necropsy labs for Wildlife Techniques. University of Massachusetts Amherst.

1975-1982 - Outreach presentations to elementary school groups and general public. Ecotarium, Worcester, MA.

### **Presentations**

2001 - Biodiversity and the Case for Preservation Status of the Sibinacocha Watershed. Poster presented at the International Congress for the Conservation of Biodiversity in the Andes and the Amazon Basin. Cusco, Peru.

2001 - Shrew Aggregations: Density-related Mating Behavior? Poster presented at the 2001 Annual Meeting of the American Society of Mammalogists.

### **GRANTS**

Massachusetts Division of Fisheries and Wildlife, Natural Heritage and Endangered Species Program Small Research Contracts Program, Westborough, MA:

- 1995. Small Mammal Survey at Westover Air Reserve Base.
- 1996. Small Mammal Survey at Cape Cod Air Force Station.
- 1996. Small Mammal Survey at Conant Brook Dam, ACOE.
- 1996. Small Mammal Survey at East Brimfield Lake, ACOE.
- 1997. Small Mammal Survey at Knightville Dam, ACOE.
- 1997. Small Mammal Survey at Westville Lake, ACOE.

1999. Small Mammal Survey at Barre Falls Dam, ACOE

## PROFESSIONAL SOCIETIES

American Society of Mammalogists  
Society for the Preservation of Natural History Collections  
Society for Conservation Biology

## PUBLICATIONS

Maier, T. J., and K. L. Doyle. In press. Aggregations of *Sorex cinereus*: density-related mating behavior? In *Advances in the Biology of the Soricidae II*; eds., J. F. Merritt, S. Churchfield, R. Hutterer, and B. Sheftel. Carnegie Museum of Natural History, Special Publication No. XX, Pittsburgh, Pennsylvania.

Doyle, K.L., P. Zahler and C. Auca Chutas. 2002. "Biodiversity and the Case for Preservation of the Sibinacocha Watershed." pp. 189-194 in *Proceedings of the Congress on Conservation of Biodiversity in the Andes and the Amazon Basin*. (R.W. Bussman and S. Lange, eds.) International Network for Biological and Cultural Diversity, INKA e.V. Munich, Germany

Brooks, R. T. and K. L. Doyle. 2001. Shrew Species Richness and Abundance in Relation to Vernal Pond Habitat in Southern New England. *Northeast Naturalist*. 8(2): 137-148.

Maier T. J., and K. L. Doyle. 1999. *Small mammal survey at Barre Falls Dam Project, Army Corps of Engineers*. Part of Survey of the Rare or Protected Species and Priority Natural Communities of the Barre Falls Dam Property [editors: F. Morrison and L. Sanders]. Report to the Department of Army, New England Division, Corps of Engineers and the Massachusetts Natural Heritage and Endangered Species Program, Westborough, MA.

Maier T. J., and K. L. Doyle. 1998. *Small mammal survey at Knightville Dam, Army Corps of Engineers*. Part of Knightville Dam Property Rare or Protected Species and Priority Natural Communities Survey. Report to the Department of Army, New England Division, Corps of Engineers. Massachusetts Natural Heritage and Endangered Species Program, Westborough, MA.

Doyle, K. L., and T. J. Maier. 1998. *Small mammal survey at Westville Lake, Army Corps of Engineers*. Part of Westville Lake Property Rare or Protected Species and Priority Natural Communities Survey. Report to the Department of Army, New England Division, Corps of Engineers. Massachusetts Natural Heritage and Endangered Species Program, Westborough, MA.

Doyle, K. L. 1997. Comparison of shrew species composition and food habits in forested temporary pond catchment basins and upland forest habitat. M.S. Thesis, University of Massachusetts, Amherst, MA.

- Doyle, K. L., and T. J. Maier. 1997. *Small mammal survey at Cap Cod Air Force Station (PAVE PAW)*. Part of Biological Survey of the Cape Cod Air Force Station, Bourne, MA. Report to the U. S. Air Force. Massachusetts Natural Heritage & Endangered Species Program, Westborough, MA.
- Doyle, K. L., and T. J. Maier. 1997. *Small mammal survey at East Brimfield Lake, Army Corps of Engineers*. Part of East Brimfield Lake Property Rare or Protected Species and Exemplary Natural Communities Survey. Report to the Department of Army, New England Division, Corps of Engineers. Massachusetts Natural Heritage & Endangered Species Program, Westborough, MA.
- Doyle, K. L., and T. J. Maier. 1997. *Small mammal survey at Conant Brook Dam, Army Corps of Engineers*. Part of Conant Brook Dam Property Rare or Protected Species and Exemplary Natural Communities Survey. Report to the Department of Army, New England Division, Corps of Engineers. Massachusetts Natural Heritage & Endangered Species Program, Westborough, MA.
- Simmons, K. R. and K. L. Doyle. 1996. Limestone treatment of Whetstone Brook, Massachusetts. III. Changes in the invertebrate fauna. *Restoration Ecology*. 4(3):284-292.
- Doyle, K. L., and T. J. Maier. 1995. *Small mammal survey at Westover Air Reserve Base*. Part of Biological Inventory of Westover Air Reserve Base and Granby site. Report to U. S. Air Force. Massachusetts Natural Heritage & Endangered Species Program, Westborough, MA.
- Brooks, R. T. and K. L. Doyle. 1994. White-belted coloration in a masked shrew, *Sorex cinereus*, from Massachusetts. *Canadian Field-Naturalist*. 108(4):491-492.