

## **ROBERT M. DORAZIO**

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## **EDUCATION**

**Ohio State University, B.S.** (major in General Biology from Department of Biology, College of Arts and Sciences), 1979

**University of Michigan, Ph.D.** (major in Oceanography from Department of Atmospheric and Oceanic Science, College of Engineering), 1986

## **AREAS OF SPECIALIZATION**

Statistical inference, mathematical modeling, population dynamics, ecology, conservation biology, [adaptive management of natural resources](#)

## **SELECTED PUBLICATIONS**

- Dorazio, R. M. 1993. Prerelease stratification in tag-recovery models with time dependence. *Canadian Journal of Fisheries and Aquatic Sciences* 50, 535–541.
- Dorazio, R. M., K. A. Hattala, C. B. McCollough, and J. E. Skjveland. 1994. Tag recovery estimates of migration of striped bass from spawning areas of the Chesapeake Bay. *Transactions of the American Fisheries Society* 123, 950–963.
- Dorazio, R. M. 1995. Mortality estimates of striped bass caught in Albemarle Sound and Roanoke River, North Carolina. *North American Journal of Fisheries Management* 15, 290–299.
- Dorazio, R. M. 1997. Modelling heterogeneity in the recoveries of marked animal populations with covariates of individual animals, groups of animals, or recovery time. *Environmental and Ecological Statistics* 4, 235–246.
- Dorazio, R. M. 1999. Design-based and model-based inference in surveys of freshwater mollusks. *Journal of the North American Benthological Society* 18, 118–131.
- Fabrizio, M. C., R. M. Dorazio, and S. T. Schram. 2001. [Dynamics of individual growth in a recovering population of lake trout \(\*Salvelinus namaycush\*\)](#). *Canadian Journal of Fisheries and Aquatic Sciences* 58, 262–272.
- Dorazio, R. M., and F. A. Johnson. 2003. [Bayesian inference and decision theory - a framework for decision making in natural resource management](#). *Ecological Applications* 13, 556–563.

- Dorazio, R. M., and J. A. Royle. 2003. [Mixture models for estimating the size of a closed population when capture rates vary among individuals](#). *Biometrics* 59, 351–364.
- Dorazio, R. M., H. L. Jelks, and F. Jordan. *In review*. [Improving removal-based estimates of abundance by sampling a population of spatially distinct subpopulations](#). *Biometrics*.
- Dorazio, R. M., and J. A. Royle. *In review*. Estimating size and composition of biological communities by modeling the occurrence of species. *Journal of the American Statistical Association*.
- Dorazio, R. M., J. A. Royle, and B. Söderström. *In prep*. Estimating species richness and accumulation using models of species occurrence and detection.