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EDUCATION

- Ohio State University, B.S. (major in General Biology from Dept. of Biology, College of Arts and Sciences), 1979
- University of Michigan, Ph.D. (major in Oceanography from Dept. of Atmospheric and Oceanic Science, College of Engineering), 1986

POSTGRADUATE TRAINING

- Survival Analysis of Recapture Data from Marked Animal Populations - A 5-day course. David R. Anderson (Colorado State University), Kenneth P. Burnham (Colorado State University), and Jean-Dominique Lebreton (Montpellier, France). 1991.
- Computer Intensive Statistics in Biology - A 3-day course in randomization tests, Monte Carlo simulation, and bootstrapping. Brian F.J. Manly (University of Otago, New Zealand). 1993.
- Categorical Data Analysis - A 3-day course. Alan Agresti (University of Florida). 1994.
- Generalized Linear Models - A 3-day course. James G. Booth (University of Florida). 1995.
- Extending the Cox Proportional Hazards Model - A 2-day course. Terry Therneau (Mayo Clinic, Rochester, Minnesota). 1996.
- Sampling-based Methods for Bayesian and Likelihood Inference. A 1-day course. Martin Tanner (Northwestern University). 1997.
- Bayes and Empirical Bayes Methods for Data Analysis. A 3-day course. Bradley P. Carlin (University of Minnesota). 1998.
- Applying Finite Mixture Models. A 1-day course. Geoffrey McLachlan (University of Queensland). 2000.
- Introduction to Adaptive Stochastic Dynamic Programming Theory for Adaptive Resource Management. A 2-day course. Bruce Lubow (Colorado State University). 2001.
- Monte Carlo Methods in Bayesian Computation. A 1-day course. Ming-Hui Chen (Worcester Polytechnic Institute) and Joseph Ibrahim (Harvard University). 2001.
- R/Splus System: Advanced Programming. A 2-day course. Thomas Lumley (University of Washington). 2002.

PROFESSIONAL EXPERIENCE

1994–present: Research Statistician, Florida Integrated Science Center, Gainesville, Florida, U.S. Geological Survey

Dr. Dorazio is a Research Statistician at the U.S. Geological Survey’s Florida Integrated Science Center. He also holds a Courtesy Associate Professorship in the Department of Statistics at the University of Florida. His research is motivated primarily by statistical inference problems that arise in the general areas of population dynamics, community ecology, and conservation biology. In solving these problems he develops and applies novel sampling designs and novel statistical models in quantitative investigations of natural populations or communities of animals (including imperiled or declining species). He is also interested in developing the theory and practice of adaptive decision making in problems of natural resource management.

1987–1994: Research Fishery Biologist, National Fisheries Research Center, Leetown, West Virginia, U.S. Fish and Wildlife Service

1985–1987: Postdoctoral Research Fellow and Research Associate, Department of Biology, University of Michigan

MEMBERSHIPS IN PROFESSIONAL SOCIETIES

American Statistical Association (since 1994)
 International Biometric Society (since 1993)
 International Society for Bayesian Analysis (since 2002)

HONORS AND AWARDS

- Arts and Sciences Award for Scholarship, College of Arts and Sciences, Ohio State University, 1978.
- Rackham Dissertation Grant, Rackham School of Graduate Studies, University of Michigan, 1982.
- Rackham Predoctoral Fellowship, Rackham School of Graduate Studies, University of Michigan, 1983.
- Distinguished Achievement Award for outstanding performance, Department of Atmospheric and Oceanic Science, University of Michigan, 1984.
- Albert S. Hazzard Award for excellence in student research in aquatic biology, American Fisheries Society, Michigan Chapter, 1985.
- Special Achievement Awards, U.S. Fish and Wildlife Service, 1989, 1991, 1992, 1993, 1994.
- Star Award for serving on the Strategic Steering Committee to increase the effectiveness of the Florida Caribbean Science Center as a research organization, 2002.
- Star Award for teaching an international workshop “Estimation of Abundance, Occupancy, and Species Richness in Large-Scale Surveys” and for excellence in publication in ecology and statistics, 2007.
- Star Award for coauthoring the book, “Hierarchical Modeling and Inference in Ecology”, 2008.
- Invited to participate as a member of the Binary Matrices Working Group, National Institute for Mathematical and Biological Synthesis, 2009.

PRESENTATIONS

- Lehman, J.T., and R.M. Dorazio. 1980. An age-structured model of zooplankton dynamics. Annual Meeting, American Society of Limnology and Oceanography, Knoxville, TN. (presented)
- Dorazio, R.M. 1982. Optimal life-history tactics predicted by an age-structured model of zooplankton populations. National Oceanic and Atmospheric Association, Great Lakes Environmental Research Laboratory, Ann Arbor, MI. (presented)
- Dorazio, R.M. 1983. Analyzing the growth and decline of populations of the rotifer *Asplanchna*. Annual Meeting, American Society of Limnology and Oceanography, St. John's, Newfoundland. (presented)
- Dorazio, R.M. 1984. Analyzing the seasonal succession of rotifers in a small Michigan lake with enclosure experiments. Annual Meeting, American Society of Limnology and Oceanography, Vancouver, British Columbia. (presented)
- Kilham, P., and R.M. Dorazio. 1985. Sulfate in African inland waters: geochemical processes governing the loss of sulfur. Annual Meeting, American Society of Limnology and Oceanography, Minneapolis, MN. (presented)
- Dorazio, R.M., J.A. Bowers, and J.T. Lehman. 1986. Food limitation and patterns of resource utilization by *Daphnia* and *Diaptomus* in Lake Michigan. Annual Meeting, American Society of Limnology and Oceanography, Kingston, RI. (presented)
- Dorazio, R.M., and J.T. Lehman. 1987. Vertical migration by zooplankton balances phytoplankton grazing losses and growth rates in Lake Michigan. Annual Meeting, American Society of Limnology and Oceanography, Madison, WI. (presented)
- Bowers, J.A., R.W. Gensemer, and R.M. Dorazio. 1987. The role of diel vertical migration in the predator-prey relationships between *Mysis relicta* and Cladocera in Lake Michigan. Annual Meeting, American Society of Limnology and Oceanography, Madison, WI. (presented)
- Dorazio, R.M., and P.J. Rago. 1988. Estimation of region-specific rates of fishing mortality and migration using tag returns in adjacent fisheries. International Symposium and Educational Workshop on Fish-Marking Techniques, American Fisheries Society, Seattle, WA. (presented)
- Dorazio, R.M., and P.J. Rago. 1988. Estimation of region-specific rates of fishing mortality and migration using tag returns in adjacent fisheries. Annual Meeting, Northeast Fish and Wildlife Conference, American Fisheries Society, White Sulphur Springs, WV. (presented)
- Dorazio, R.M., and P.J. Rago. 1988. Prediction of maximum allowable fishing mortality rates for anadromous striped bass of Chesapeake Bay. Annual Meeting, Northeast Fish and Wildlife Conference, American Fisheries Society, White Sulphur Springs, WV. (presented)
- Dorazio, R.M. 1988. An equilibrium analysis of the Maryland striped bass population. Annual Workshop, Emergency Striped Bass Study Research Workshop, Norfolk, VA. (presented)
- Rago, P.J., and R.M. Dorazio. 1988. Non-equilibrium analysis of the Maryland striped bass population. Annual Workshop, Emergency Striped Bass Study Research Workshop, Norfolk, VA. (presented)
- Dorazio, R.M., and P.J. Rago. 1989. A preliminary summary of 1988 recovery data from striped bass marked during the coastwide, cooperative tagging program. Annual Workshop, Emergency Striped Bass Study Research Workshop, Richmond, VA. (presented)
- Dorazio, R.M., B.M. Florence, and C.M. Wooley. 1990. Mortality and abundance estimates of wild and hatchery-reared young-of-the-year striped bass in the Patuxent River, Maryland.

- Annual Workshop, Emergency Striped Bass Study Research Workshop, Mystic, CT. (presented)
- Schill, W.B., and R.M. Dorazio. 1990. Immunological discrimination of Atlantic striped bass stocks. Annual Workshop, Emergency Striped Bass Study Research Workshop, Mystic, CT. (presented)
 - Dorazio, R.M. 1990. The coastwide migratory striped bass tagging program. Multiagency Workshop, Enhancing Catch/Tag and Release Fishing in the Northeast Region: Issues, Concerns, Potential, Woods Hole, MA. (invited)
 - Dorazio, R.M., B.M. Florence, and C.M. Wooley. 1990. Mortality and abundance estimates of wild and hatchery-reared young-of-the-year striped bass in the Patuxent River, Maryland. Annual Meeting, American Fisheries Society, Pittsburgh, PA. (presented)
 - Dorazio, R.M. 1991. Survival and recovery of Chesapeake stocked fish during the first 3 years at large. Annual Workshop, Emergency Striped Bass Study Research Workshop, Norfolk, VA. (presented)
 - Dorazio, R.M. 1991. Population dynamics of striped bass in the Roanoke River/Albemarle Sound estuary: 1. Rates of total mortality and exploitation estimated from W.W. Hassler's tag-recovery data. North Carolina Striped Bass Study Management Board, Raleigh, NC. (presented)
 - Dorazio, R.M. 1992. Analysis of tag recoveries from migratory populations of striped bass. Versar Incorporated, Columbia, MD. (presented)
 - Dorazio, R.M. 1992. Pre-release stratification in tag-recovery models. Annual Workshop, Emergency Striped Bass Study Research Workshop, Norfolk, VA. (presented)
 - Dorazio, R.M. 1992. Survival and recovery rates of Atlantic striped bass estimated from recoveries of fish tagged during 1986-1991. Annual Meeting, Northeast Fish and Wildlife Conference, American Fisheries Society, Norfolk, VA. (presented)
 - Dorazio, R.M. 1993. Virtual population analysis of the Albemarle/Roanoke stock and implications for fisheries management. Annual Workshop, Emergency Striped Bass Study Research Workshop, Annapolis, MD. (presented)
 - Dorazio, R.M. 1994. Tag-recovery estimates of migration of striped bass from spawning areas of the Chesapeake Bay. Annual Meeting, American Fisheries Society, Halifax, Nova Scotia. (presented)
 - Brim-Box, J., J.D. Williams, R.M. Dorazio, and C. O'Brien. 1995. An investigation of freshwater mussels, fish, and fine sediments in the ACF Basin, with special emphasis on imperiled mussel species. Conservation and Management of Freshwater Mussels II: Initiatives for the Future (symposium), Upper Mississippi River Conservation Committee, St. Louis, MO. (presented)
 - Dorazio, R.M. 1997. Statistical inference from surveys of freshwater mollusks and their environment. Freshwater Mollusks as Indicators of Water Quality: A Workshop, U.S. Geological Survey, Atlanta, GA. (invited)
 - Dorazio, R.M. 1997. Statistical inference from surveys of freshwater mollusks and their environment. Annual Meeting, North American Benthological Society, San Marcos, TX. (invited)
 - Kernaghan, N.J., D.S. Ruessler, R.M. Dorazio, and T.S. Gross. 1998. The effect of contaminants in host fish on the survival of juvenile freshwater mussels (Unionidae). Annual Meeting, Society of Environmental Toxicology and Chemistry, Charlotte, NC. (presented)

- Kernaghan, N.J., D.S. Ruessler, R.M. Dorazio, and T.S. Gross. 1999. The effect of contaminants in host fish on the survival of juvenile freshwater mussels (Unionidae). First Symposium of the Freshwater Mollusk Conservation Society, Chattanooga, TN. (presented)
- Dorazio, R.M. and H.N. Blalock. 1999. Multistage sampling designs and hierarchical models for estimating the abundance of mussels in streams. First Symposium of the Freshwater Mollusk Conservation Society, Chattanooga, TN. (presented)
- Dorazio, R.M. and H.N. Blalock. 1999. A hierarchical Bayes approach for small-area estimation based on counts observed in multistage surveys. Annual Spring Meeting, International Biometric Society, Atlanta, GA. (presented)
- Fabrizio, M.C., R.M. Dorazio, and S.T. Schram. 1999. Modeling individual growth variability in a recovering population of tagged lake trout. Annual Meeting, American Fisheries Society, Charlotte, NC. (invited)
- Dorazio, R.M. 1999. Estimation of individual growth rates from the sizes of recaptured fish, mollusks, and other Earthly beasts: problems, promises, and reality. U.S. Geological Survey, Center for Coastal Geology, St. Petersburg, FL. (invited)
- Dorazio, R.M. 2001. Adaptive management of wildlife habitat using Bayesian inference and decision theory - a case study at Goodwin Wildlife Management Area. Adaptive Resource Management Conference Series, Gainesville, FL. (presented)
- Fabrizio, M.C., R.M. Dorazio, and S.T. Schram. 2001. Dynamics of individual growth in a recovering population of lake trout. Annual Meeting, American Fisheries Society, Phoenix, AZ. (invited)
- Dorazio, R.M. and F.A. Johnson. 2001. Bayesian inference and decision theory - a coherent framework for decision making in natural resource management. Adaptive Resource Management Conference Series, Laurel, MD. (invited)
- Dorazio, R.M. 2003. Simulation-based approaches for computing an optimal sequence of adaptive management decisions. Adaptive Resource Management Conference Series, Laurel, MD. (invited)
- Dorazio, R.M. and J.A. Royle. 2003. Mixed models for estimating the number of distinct species in replicated wildlife surveys. Annual Spring Meeting, International Biometric Society, Tampa, FL. (presented)
- Dodd, C.K. and R.M. Dorazio. 2004. Using counts to estimate abundance and detection probabilities in a salamander community. Joint Annual Meeting of the American Society of Ichthyologists and Herpetologists, Herpetologists' League, and Society for the Study of Amphibians and Reptiles, Norman, OK. (presented)
- Dorazio, R.M. and J.A. Royle. 2004. Estimating size and composition of biological communities by modeling the occurrence of species. International Society for Bayesian Analysis 2004 World Meeting, Viña del Mar, Chile (presented)
- Dorazio, R.M. and J.A. Royle. 2004. Estimating size and composition of biological communities by modeling the occurrence of species. Joint Statistical Meetings, American Statistical Association, Toronto, Ontario, Canada (presented)
- Dorazio, R.M. 2004. Beyond point counts: estimating local and regional abundance of Okaloosa darters. Okaloosa Darter Recovery Implementation Group Meeting, Eglin Air Force Base, Niceville, FL. (invited)

- Dorazio, R.M., J.A. Royle, and C.K. Wikle. 2004. Spatio-temporal dynamics of an invasive species: modeling counts of imperfectly detected animals. Invasive Species Monitoring Protocol Development Workshop, USGS/NPS, Portland, OR. (invited)
- Dorazio, R.M., H.L. Jelks, and F. Jordan. 2004. Improving removal-based estimates of local abundance in a metapopulation of endangered fishes. Winemiller Symposium (“New Developments of Statistical Analysis in Wildlife, Fisheries, and Ecological Research”), University of Missouri, Columbia, MO. (invited).
- Johnson, F., D. Breining, B. Duncan, R.M. Dorazio. 2005. Adaptive management of Florida scrub-jays: A question of scale. Adaptive Resource Management Conference Series (“Adaptive Management for Threatened and Endangered Species”), National Conservation Training Center, Shepherdstown, WV.
- Jelks, H.L., F. Jordan, and R.M. Dorazio. 2005. Removal sampling of an endangered darter: advantages for estimating populations. Joint Annual Meeting of the American Society of Ichthyologists and Herpetologists, Herpetologists’ League, and Society for the Study of Amphibians and Reptiles, Tampa, FL.
- Dorazio, R.M., H.L. Jelks, and F. Jordan. 2005. Improving removal-based estimates of local abundance in a metapopulation of endangered fishes. Joint Statistical Meetings, American Statistical Association, Minneapolis, MN (invited)
- Hooten, M.B., C.K. Wikle, R.M. Dorazio, and J.A. Royle. 2005. Hierarchical Bayesian matrix models for describing the spatio-temporal population dynamics of invasive species, Joint Statistical Meetings, Minneapolis, MN.
- Royle, J.A. and R.M. Dorazio. 2005. Estimation of species richness and related summaries of community structure. Centre D’Ecologie Fonctionnelle & Evolutive (CEFE), CNRS, Montpellier France. (invited).
- Dorazio, R., B. Mukherjee, L. Zhang, and M. Ghosh. 2006. The Dirichlet process: a robust alternative for modeling heterogeneity in abundance and detection. NSF Sponsored Workshop (“Uncertainty in Ecological Analysis”), Mathematical Biosciences Institute, Ohio State University, Columbus, OH. (invited)
- Dorazio, R.M. 2006. Implications of sampling design for the estimation of site occupancy and local extinction. Annual ARMI (Amphibian Research and Monitoring Initiative) Meeting, Point Reyes National Park, California. (invited)
- Dorazio, R., B. Mukherjee, L. Zhang, and M. Ghosh. 2007. Modeling unobserved sources of heterogeneity in animal abundance using a Dirichlet process prior. Joint Statistical Meetings, Salt Lake City, UT. (presented)
- Dorazio, R.M. 2007. Implications of sampling methods and protocol for the estimation of site occupancy and local extinction. 14th European Congress of Herpetology, Porto, Portugal. (invited)
- Dorazio, R.M. 2007 (10 Dec). Hierarchical models for the analysis of aerial survey data. Manatee Aerial Survey Workshop, St. Petersburg, FL. (invited)
- Dorazio, R.M., C.A. Langtimm, B.M. Stith, and T.J. Doyle. 2008 (22 May). Hierarchical models for the estimation of manatee abundance from aerial surveys. International Indian Statistical Association Annual Meeting, Storrs, CT. (invited)

- Dorazio, R.M., C.A. Langtimm, B.M. Stith, and T.J. Doyle. 2008 (28 Jul). Estimation of manatee abundance from aerial surveys using double observers and removal sampling. Greater Everglades Ecosystem Restoration Conference, Naples, FL. (poster)
- Robblee, M.B., R.M. Dorazio, J.A. Browder, A. Daniels, and V. Roy. 2008 (28 Jul). Comparison of juvenile pink shrimp abundance in South Florida mangrove and seagrass-dominated estuaries. Greater Everglades Ecosystem Restoration Conference, Naples, FL. (poster)
- Dorazio, R.M., M. Kery, and J.A. Royle. 2008 (02 Aug). Predicting seasonal changes in species composition and richness while accounting for imperfect detectability of species. Joint Statistical Meetings, American Statistical Association, Denver, CO. (invited)
- Dorazio, R.M., C.A. Langtimm, B.M. Stith, and T.J. Doyle. 2008 (02 Aug). Estimation of manatee abundance from aerial surveys using double observers and removal sampling. Joint Statistical Meetings, American Statistical Association, Denver, CO. (poster)
- Rota, C.T., R.J. Fletcher Jr., and R.M. Dorazio. 2008 (05 Aug). Occupancy estimation from single visit surveys. Meeting of American Ornithologists' Union, Cooper Ornithological Society, and Society of Canadian Ornithologists.
- Rota, C.T., R.J. Fletcher Jr., and R.M. Dorazio. 2008 (11 Nov). Estimating bird detectability from single visit point count surveys. Wildlife Society 15th Annual Conference.
- Dorazio, R.M., M. Kery, and J.A. Royle. 2008 (05 Nov). Dynamic, multispecies occupancy models for estimating changes in biodiversity and other community-level attributes. Annual ARMI (Amphibian Research and Monitoring Initiative) Meeting, Lafayette, Louisiana. (invited)
- Dorazio, R.M. 2009 (26 May). An overview of models for estimating occurrence of imperfectly detected species. Binary Matrices Working Group Meeting, National Institute for Mathematical and Biological Synthesis, Knoxville, TN. (invited)
- Dorazio, R.M., M. Kery, J.A. Royle, and M. Plattner. 2009 (17 Jun). Models for inference in dynamic metacommunity systems. International Environmetrics Society (TIES) North American Regional Meeting, Corvallis, OR. (presented)
- Waddle, H., S.C. Walls, and R.M. Dorazio. 2009 (22 Jul). Occupancy dynamics in a Louisiana assemblage of anurans. Joint Meeting of the American Society of Ichthyologists and Herpetologists, Portland, OR.
- Dorazio, R.M., M. Kery, J.A. Royle, and M. Plattner. 2009 (14 Sep). Models for inference in dynamic metacommunity systems. EURING2009 Science Meeting and Workshop, Pescara, Italy. (poster)
- Dorazio, R.M. 2010 (04 Jan). Hierarchical models for synthesizing information in ecological networks. International Indian Statistical Association Joint Statistical Meetings, Visakhapatnam, India. (invited)

COLLOQUIA AND SEMINARS

- Use of enclosure experiments to investigate the dynamics of natural zooplankton populations from Third Sister Lake, Michigan. University of Michigan, Great Lakes Research Division. 1982.
- Statistical inference in life-table experiments: the finite rate of increase. University of Michigan, Great Lakes Research Division. 1983.

- The limnology of Lake Michigan: trophic dynamics and natural variability. Michigan State University, Kellogg Biological Station. 1986.
- The limnology of Lake Michigan: trophic dynamics and natural variability. University of Rhode Island, Department of Zoology. 1987.
- A hierarchical Bayes approach for small-area estimation based on counts observed in multistage surveys. University of Florida, Department of Statistics. 1999.
- Estimation of individual growth rates from the sizes of recaptured fish, mollusks, and other Earthly beasts: problems, promises, and reality. University of Florida, Department of Statistics. 1999.
- Bayesian inference and decision theory - a coherent framework for decision making in natural resource management. University of Missouri, Department of Statistics. 2002.
- Estimating size and composition of biological communities by modeling the occurrence of species. University of Florida, Department of Statistics. 2003.
- Research opportunities for students. University of Florida, Department of Statistics, Student Seminar Series. 2004.
- Improving removal-based estimates of local abundance in a metapopulation of endangered fishes. Winemiller Symposium (“New Developments of Statistical Analysis in Wildlife, Fisheries, and Ecological Research”), University of Missouri, Department of Statistics. 2004.
- Hierarchical models of animal abundance and occurrence for spatially-referenced counts. University of Florida, Department of Statistics. 2005.
- Robust alternatives for modeling heterogeneity in abundance and detectability. University of Zurich, Switzerland, Zoological Institute. October 4, 2006.
- Analysis of presence/absence data: models for estimating site occupancy and the risk of local extinction. University of Florida, Department of Statistics. November 14, 2006.
- Conventional vs. ecological models for the analysis of repeated measurements in spatially referenced samples. University of Florida, Department of Statistics. October 24, 2007.
- Estimation of manatee abundance from aerial surveys using dual observers and removal sampling. University of Florida, Department of Statistics. September 18, 2008.
- Estimating changes in species composition and richness while accounting for imperfect detectability: a case study from the Biodiversity Monitoring Program in Switzerland. University of Florida, Department of Wildlife Ecology and Conservation, September 22, 2008.
- Estimation of manatee abundance from aerial surveys using dual observers and removal sampling. University of Minnesota, School of Public Health, Division of Biostatistics, October 1, 2008.

RENDERING SCIENTIFIC JUDGEMENT

- Natural Resource Management Committees:
 - Striped Bass Stock Assessment Subcommittee (member), Atlantic States Marine Fisheries Commission, 1987–1993
 - Striped Bass Stocking Technical Advisory Committee (member), Atlantic States Marine Fisheries Commission, 1987–1993

- Striped Bass Technical Committee (also known as Striped Bass Scientific and Statistical Committee) (member), Atlantic States Marine Fisheries Commission, 1987–1993
- Scientific and Statistical Committee (member), South Atlantic Fishery Management Council, 1995–2001
- Department of Interior Review Panels:
 - Research Grade Evaluation Panel (member), U.S. Geological Survey, 1997, 2001, 2004, 2008
 - Steering Committee (member), National Program Review, Fisheries and Aquatic Resources Program, U.S. Geological Survey, 1998
 - Review Panel (expert consultant), Review of ICCAT Stock Assessment and Management Recommendations for west Atlantic Bluefin Tuna. Service was requested by Science Advisor of the Secretary of the Interior, 1999
 - Science Council (member), Florida Integrated Science Center, U.S. Geological Survey, 2003–2004
 - Methods and Data Comparability Board (expert consultant), National Water Quality Monitoring Council (EPA and USGS), Review of biological collection methods and possible inclusion of USGS in EPA’s Wadeable Streams Assessment survey. Service was requested by Status and Trends Biology Program Coordinator (USGS), 2004
- Associate Editor, Transactions of the American Fisheries Society, American Fisheries Society, 1992–1994
- Associate Editor, Biometrics, International Biometric Society, 2006–2010
- Associate Editor, Sankhya, Indian Statistical Institute, 2008–2009
- Journal Referee (in alphabetical order):
 - Archiv für Hydrobiologie
 - Biometrics
 - Canadian Journal of Fisheries and Aquatic Sciences
 - Ecography
 - Ecological Applications
 - Ecology
 - Environmental and Ecological Statistics
 - Journal of Agricultural, Biological, and Environmental Statistics
 - Journal of Applied Ecology
 - Journal of Aquatic Ecosystem Stress and Recovery
 - Journal of Herpetology
 - Journal of the American Statistical Association
 - Journal of the North American Benthological Society
 - Journal of the Royal Statistical Society, Series A (Statistics in Society)
 - Journal of the Royal Statistical Society, Series B (Statistical Methodology)

- Journal of Theoretical Biology
- Journal of Wildlife Management
- North American Journal of Fisheries Management
- Oecologia
- Oikos
- Physica
- Statistical Modelling
- Statistics in Medicine
- Theoretical Population Biology
- Transactions of the American Fisheries Society

TEACHING AND OTHER PROFESSIONAL ACTIVITIES

- Organized a workshop with invited speakers, Gainesville, FL. 2004. Workshop Title: “Adaptive Resource Management”
- Organized a session of invited speakers at the Joint Statistical Meetings, American Statistical Association, Toronto, Ontario, Canada, 2004. Session Title: “Models for estimating the size of a population or of a biological community when detection varies among individuals or species”
- Taught a 4-day workshop: “Estimation of abundance, occupancy, and species richness in large-scale surveys.” University of Zürich, Switzerland. Oct. 2006 (co-instructor Andy Royle, USGS-Patuxent Wildlife Research Center).
- Organized a session of invited speakers at the Joint Statistical Meetings, American Statistical Association, Salt Lake City, UT, 2007. Session Title: “Applications of Bayesian inference in wildlife ecology”
- Taught a 5-day workshop: “Hierarchical models in ecology: inference in population, metapopulation, and community ecology.” University of Zürich, Switzerland. Sep. 2007. (co-instructor Andy Royle, USGS-Patuxent Wildlife Research Center)
- Taught a 3-credit course: “Statistical inference and modeling for research.” University of Florida. Fall semester 2007.
- Scheduled to teach a 7-day workshop: “Hierarchical Modeling and Inference in Ecology.” Centre for Wildlife Studies, Bangalore, India. Jan. 2010.

PUBLICATIONS

Refereed

1. Dorazio, R.M., and J.T. Lehman. 1983. Optimal reproductive strategies in age-structured populations of zooplankton. *Freshwater Biology* 13: 157–175.
2. Dorazio, R.M. 1984. The contribution of longevity to population death rates. *Hydrobiologia* 108: 239–243.
3. Rago, P.J., and R. M. Dorazio. 1984. Statistical inference in life-table experiments: the finite rate of increase. *Canadian Journal of Fisheries and Aquatic Sciences* 41: 1361–1374.

4. Dorazio, R.M. 1986. Estimating population birth rates of zooplankton when rates of egg deposition and hatching are periodic. *Oecologia* 69: 532–541.
5. Dorazio, R.M., J.A. Bowers, and J.T. Lehman. 1987. Food-web manipulations influence grazer control of phytoplankton growth rates in Lake Michigan. *Journal of Plankton Research* 9: 891–899.
6. Schill, W.B., and R.M. Dorazio. 1990. Immunological discrimination of Atlantic striped bass. *Transactions of the American Fisheries Society* 119: 77–85.
7. Dorazio, R.M., and P.J. Rago. 1991. Evaluation of a mark-recapture method for estimating mortality and migration rates of stratified populations. *Canadian Journal of Fisheries and Aquatic Sciences* 48: 254–260.
8. Dorazio, R.M., B.M. Florence, and C.M. Wooley. 1991. Stocking of hatchery-reared striped bass in the Patuxent River, Maryland: survival, relative abundance, and cost-effectiveness. *North American Journal of Fisheries Management* 11: 435–442.
9. Dorazio, R.M. 1993. Prerelease stratification in tag-recovery models with time dependence. *Canadian Journal of Fisheries and Aquatic Sciences* 50: 535–541.
10. Dorazio, R.M., K.A. Hattala, C.B. McCollough, and J.E. Skjeveland. 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.
11. 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.
12. 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, 347 (erratum).
13. Hamilton, H., J.B. Box, and R.M. Dorazio. 1997. Effects of habitat suitability on the survival of relocated freshwater mussels. *Regulated Rivers* 13: 537–541.
14. Walsh, S.J., D.C. Haney, C.M. Timmerman, and R.M. Dorazio. 1998. Physiological tolerances of juvenile robust redhorse, *Moxostoma robustum*: conservation implications for an imperiled species. *Environmental Biology of Fishes* 51: 429–444.
15. 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.
16. 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.
17. Smith, L.L., M. Pedrono, R.M. Dorazio, and J. Bishko. 2001. Morphometrics, sexual dimorphism, and growth in the Angonoka tortoise (*Geochelone yniphora*) of western Madagascar. *African Journal of Herpetology* 50: 9–18.
18. Box, J.B., R.M. Dorazio, and W. D. Liddell. 2002. Relationships between streambed substrate characteristics and freshwater mussels (Bivalvia: Unionidae) in coastal plain streams. *Journal of the North American Benthological Society* 21: 253–260.
19. 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.

20. 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.
21. Dodd, C.K. and R.M. Dorazio. 2004. Using counts to simultaneously estimate abundance and detection probabilities in a salamander community. *Herpetologica* 60: 468–478.
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