

CURRICULUM VITAE

DAVID M. MARSH

POSITIONS:

Professor of Biology, Washington and Lee University, 2011-present
Associate Professor of Biology, Washington and Lee University, 2006-present
Undergraduate Education Advisor, National Center for Ecological Analysis and Synthesis, 2010-2011
Sabbatical Fellow, National Center for Ecological Analysis and Synthesis, 2006-2007
Assistant Professor of Biology, Washington and Lee University, 2000-2006

EDUCATION:

2000 University of California, Davis
Ph.D. in Population Biology

1993 University of Virginia
B.A., Biology, w/ distinction

FELLOWSHIPS AND GRANTS (LAST 10 YEARS):

2012-2014 National Science Foundation: Transforming Undergraduate Education in Science. Toads, Roads, and Nodes: Collaborative Course-Based Research on the Landscape Ecology of Amphibian Populations. w/ Stephanie Hampton (NCEAS) \$242,000

2010-2011 National Science Foundation. An Undergraduate Network for Analyzing Plant Invasion in U.S. National Wildlife Refuge. w/ Stephanie Hampton (NCEAS) \$23,700.

2007-2016 Glenn/Lenfest grants for research, Washington and Lee University, \$22,600

2008-2009 USDA Forest Service: Analysis of a contact zone between a rare endemic and a common salamander. \$2000

2008 Associated Colleges of the South: Monitoring the effects of climate change on montane salamanders \$2400

2006-2007 National Center for Ecological Analysis and Synthesis Sabbatical Fellowship: Optimal Design of Population Monitoring Programs, \$30,000

2003-2006 National Science Foundation RUI: Fragmentation of terrestrial salamander populations by forest roads: ecological and genetic effects, w/ Paul R. Cabe, \$375,000

2004-2005 National Science Foundation REU supplements: \$7200

2004 ACS: Biodiversity and Conservation in the Western Ghats of India, \$3000

COURSES TAUGHT:

Field Herpetology – A four-week field course centered on a group research project in amphibian ecology or conservation

Disease Ecology – in introductory-level biology course that uses disease ecology and evolution to teach basic principles of biology, including genetics, natural selection, and population dynamics.

Biostatistics – an upper-level course focused on the intelligent use of statistical tools for hypothesis testing and model comparison

Animal Behavior – an upper-level laboratory course for biology majors focused on the integrative biology of behavior

Introduction to Behavioral Ecology – a research-based animal behavior course for non-science majors focusing on the adaptive basis of behavior.

BOOK CHAPTERS:

Marsh, D.M., and Jaeger, J. 2015. Direct effects of roads on s

Cosentino, B. J., Marsh, D. M., Jones, K. S., et al. 2014. Citizen science reveals widespread negative effects of roads on amphibian distributions. **Biological Conservation**, 180, 31-38.

Hoopes, M.F., Marsh, D.M., Beard, K.L., et al. 2013. Invasive Plants in Wildlife Refuges: Coordinated Research with Undergraduate Ecology Courses. **BioScience** 63: 644-656.

Tilghman, J.*, Ramee, S.

Marsh, D. M., Milam, G. S.*, Gorham, N. A.*, and Beckman, N. G.* 2005. Forest roads are partial barriers to salamander movement. *Conservation Biology* 9: 2004-2008

Adams, V. M.*, Marsh, D. M., and Knox, J. S. 2005. Importance of seed banks for population viability and population monitoring of an endangered wetland herb. *Biological Conservation* 124: 425-436.

Marsh, D. M., Thakur, K. A.*, Bulka, K.*, and Clarke, L. B*.

Marsh, D.M. and Pearman, P.B. 1997. Effects of habitat fragmentation on the abundance of two species of Leptodactylid frogs in an Andean forest.