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**Education**



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| 2012 | Ph.D. Natural Resources and Environmental Science, University of New Hampshire, Durham, NH |
| 2007 | M.A. Biological Sciences, University of Missouri, Columbia, MO |
| 2003 | B.S. Environmental Conservation, minor in Chemical Engineering, University of New Hampshire, Durham, NH |

# Professional Experience



2016 – Present Assistant Professor, Department of Biology, Frostburg State University, Frostburg, MD

2014 – Present USGS Mendenhall Postdoctoral Fellow, Conte Anadromous Fish Research Laboratory, Turners Falls, MA

2014 – Present Postdoctoral Fellow, DOI Northeast Climate Science Center, University of Massachusetts, Amherst, MA

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| 2012 – 2013 | Postdoctoral Research Associate, University of New Hampshire, Durham, NH |

**Publications (Selection from 21 total)**



Stephens, R.B., **D.J. Hocking**, M. Yamasaki, and R.J. Rowe. *In Press*. Synchrony in small mammal community dynamics across a forested landscape. *Ecography*.

Earl, J.E., E. Harper, D.J. Hocking, M.S. Osbourn, T.A.G. Rittenhouse, and R.D. Semlitsch. *In Press*. Effects of timber harvest on small mammals in experimental forestry plots in Missouri, USA. *Animal Biology*.

Peterman, W.E., J.A. Crawford, and **D.J. Hocking**. 2016. Effects of elevation on plethodontid salamander body size. *Copeia*. 104(1):202-208

Milanovich, J.R., **D.J. Hocking**, W.E. Peterman, and J.A. Crawford. 2015. Effective use of trails for assessing terrestrial salamander abundance and detection:  A case study at Great Smoky Mountains National Park. *Natural Areas Journal.* 35(4):590-598.

Anderson, T. L., **D. J. Hocking**, C. A. Conner, J. E. Earl, E. B. Harper, M. S. Osbourn, W. E. Peterman, T. A. G. Rittenhouse, and R. D. Semlitsch. 2015. Abundance and phenology patterns of two pond-breeding salamanders determine species interactions in natural populations. *Oecologia*. 177(3):761-73.

Drake, D.L, B.H. Ousterhout, C.D. Shulse, **D.J. Hocking**, W.E. Peterman, T.A. Anderson, K.L. Lohraff, C.A. Conner, E.H. Harper, J.R. Johnson, T.A.G. Rittenhouse, B.B. Rothermel, L.S. Eggert, and R.D. Semlitsch. 2015*.* Pond-breeding amphibian community composition in Missouri. *American Midland Naturalist*. 174:180-187.

**Hocking, D. J.** and K. J. Babbitt. 2014. Amphibian Contributions to Ecosystem Services. *Herpetological Conservation and Biology*. 9(1): 1-17.

**Hocking, D. J.** and K. J. Babbitt. 2014. The role of red-backed salamanders on ecosystem functions. *PLoS ONE* 9(1): e86854.

**Hocking, D. J.,** S. A. Callaghan, K. J. Babbitt, and M. Yamasaki. 2013. Comparison of silvicultural and natural disturbance effects on terrestrial salamanders in northern hardwood forests. *Biological Conservation*. 167:194-202.

**Hocking, D. J.**, G. M. Connette, C. A. Conner, B. R. Scheffers, S. E. Pittman, W. E. Peterman, R. D. Semlitsch. 2013. Effects of experimental forest management on a terrestrial, woodland salamander in Missouri. *Forest Ecology and Management.* 287: 32-39

Osbourn, M. S., **D. J. Hocking**, C. A. Conner, W. E. Peterman, and R. D. Semlitsch. 2011. Use of fluorescent visible implant Alphanumeric tags to individually mark juvenile ambystomatid salamanders. *Herpetological Review* 42(1):43-46.

Semlitsch, R. D., S. M Blomquist, A. J. K. Calhoun, J.W. Gibbons, J. P. Gibbs, G. J. Graeter, E. B. Harper, **D. J. Hocking**, M. L. Hunter, D. A. Patrick, T. A. G. Rittenhouse, B. B. Rothermel, and B. D. Todd. 2009. Effects of timber management on amphibian populations: understanding mechanisms from forest experiments. *Bioscience* 59(10): 853-862.

Babbitt K. J., M. J. Baber, D. L. Childers, and **D. J. Hocking**. 2009. The influence of agricultural upland habitat type on larval anuran assemblages in seasonally-inundated wetlands. *Wetlands* 29(1): 294-301.

**Hocking, D. J.** and R. D. Semlitsch. 2008. Effects of clearcut logging on gray treefrog (*Hyla versicolor*) tadpole performance. *Journal of Herpetology* 42: 689-698.

**Hocking, D. J.**,T. A. G. Rittenhouse, B. B. Rothermel, J. R. Johnson, C. A. Conner, E. B. Harper, and R. D. Semlitsch. 2008. Breeding and recruitment phenology of amphibians in Missouri oak-hickory forests. *American Midland Naturalist* 160: 41-60.

Semlitsch, R. D., C. A. Conner, **D. J. Hocking**, T. A. G. Rittenhouse, and E. B. Harper. 2008. Effects of timber harvesting on pond-breeding amphibian persistence: testing the evacuation hypothesis. *Ecological Applications* 18(2): 283-289

**Hocking, D. J.** and R. D. Semlitsch. 2007. Effects of timber harvest on breeding site selection by gray treefrogs (*Hyla versicolor*). *Biological Conservation* 138: 506-513.

# Grants and Awards (selected)



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| 2014 | USGS Mendenhall Research Fellowship. *Hierarchical modeling of climate change effects: Land use impacts on brook trout population persistence.* | $210,000 |
| 2012 | National Geographic Society. Waitt Grant. *Climate change effects on elevational distributions of salamanders in Great Smoky Mountains National Park*. J. A. Crawford (PI), D. J. Hocking (Co-PI), J. Milanovich (Co-PI), W. E. Peterman (Co-PI). | $14,932 |
| 2011 | University of New Hampshire. *Dissertation Year Fellowship. The contributions of woodland salamanders to ecosystem functions.* | $16,500 |
| 2011 | NH Agricultural Experiment Station. McIntire-Stennis. *The role of red-backed salamanders (Plethodon cinereus) in forest-floor ecosystem functions.* K. J. Babbitt (PI), D. J. Hocking (Co-PI). | $42,000 |