

Ericka Hegeman

University of Washington - EarthLab
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Education

- 2012 **Master of Science, Ecology**
Utah State University, Watershed Sciences Department, Logan, UT
- 2000 **Bachelor of Science, Environmental Science**
Western Washington University, Huxley College, Bellingham, WA

Professional Experience

01/2022 – present **GIS Research Scientist**
EarthLab at the University of Washington
<https://earthlab.uw.edu/>

Conducted GIS analysis to identify locations for green stormwater mitigation to benefit marginalized communities in the Puget Sound region.

11/2015 – 07/2020 **Research Associate**
Sierra Nevada Aquatic Research Laboratory (SNARL)
<https://www.mountainlakesresearch.com>

Managed numerous aspects amphibian recovery in the Sierra Nevada including coordination of backcountry data collections, database management, and spatial and statistical research support.

09/2012 – 09/2014 **Scientist**
Conservation Science Partners
<https://www.csp-inc.org>

Research the role of translocation on desert tortoise habitat and space use in the Mojave Desert and modeled the probability of fire occurrence in five Mojave Desert national parks.

03/2010 – 09/2012 **Graduate Research Assistant**
Utah State University
<https://www.qcncr.usu.edu/wats>

Developed a habitat model for native freshwater mussel distribution and density in the Middle Fork John Day River, OR, to provide guidance for restoration efforts in the nearby Umatilla River.

07/2009 – 02/2010

Research Technologist

Washington Cooperative Fish and Wildlife Research Unit
<https://www.depts.washington.edu/wacfwru>

Field and lab work in support of aquatic food web research regarding juvenile salmon survival in Puget Sound, bull trout reintroduction in the Clackamas River, OR, and bull trout distribution in the Skagit River, WA.

Publications

Knapp, R.A., M.B. Joseph, T.C. Smith, **E.E. Hegeman**, V.T. Vredenburg, J.E. Erdman, Jr., D.M. Boiano, A.J. Jani, and C.J. Briggs. 2022. Effectiveness of antifungal treatments during chytridiomycosis epizootics in populations of an endangered frog. *PeerJ*. 10:e12712 <https://doi.org/10.7717/peerj.12712>

Knapp, R.A., C. Pavelka, **E.E. Hegeman**, and T.C. Smith. 2020. The Sierra Lakes Inventory Project: Non-Native fish and community composition of lakes and ponds in the Sierra Nevada, California version 2. Environmental Data Initiative. <https://doi.org/10.6073/pasta/d835832d7fd00d9e4466e44eea87fab3>

Farnsworth, M.L., B.G. Dickson, L.J. Zachmann, **E.E. Hegeman**, A.R. Cangelosi, T.G. Jackson Jr, and A.F. Scheib. 2015. Short-Term Space-Use Patterns of Translocated Mojave Desert Tortoise in Southern California. *PLOS One*, 10(9), e0134250

Hegeman, E.E., B.G. Dickson, and L.J. Zachmann. 2014. Probabilistic models of fire occurrence across National Park Service units within the Mojave Desert Network, USA. *Landscape Ecology*, 29(9), 1587-1600

Hegeman, E.E., S.W. Miller, and K.E. Mock. 2014. Modeling freshwater mussel distribution in relation to biotic and abiotic habitat variables at multiple spatial scales. *Canadian Journal of Fisheries and Aquatic Sciences*, 71(10), 1483-1497

Conference presentations

Hegeman, E.E., S.W. Miller, and K.E. Mock. 2012. Modeling freshwater mussel distribution in relation to biotic and abiotic habitat variables in the Middle Fork John Day River, Oregon. 60th Annual meeting of Society for Freshwater Science (formerly North American Benthological Society). Louisville, KY.

Hegeman, E.E., S.W. Miller, and K.E. Mock. 2012. Modeling freshwater mussel distribution in relation to biotic and abiotic habitat variables in the Middle Fork John Day River, Oregon. 8th Annual Spring Runoff Conference. Utah State University, Logan, UT.

Hegeman, E.E., S.W. Miller, K.E. Mock, and C.E. Torgersen. 2011. Modeling freshwater mussel distribution in relation to biotic and abiotic factors in the Middle Fork John Day River, Oregon. 59th Annual meeting of North American Benthological Society Meeting. Providence, Rhode Island.

Fellowships and awards

- 2011 Presidential Fellowship, Utah State University
- 2011 USU Ecology Center Research Award and Travel Grant
- 2012 Runner up winner for best oral presentation in applied research at the Society for Freshwater Science meeting in Louisville, KY