

AUSTIN PATTON

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School of Biological Sciences
Washington State University
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EDUCATION

Washington State University, Pullman, Washington

Ph.D. Student, Biology

GPA 4.00/4.00

Warren Wilson College, Asheville, North Carolina

B.S., Biology, Environmental Studies, concentration in Conservation Biology

GPA 3.59/4.00

GPA in major: 3.55

SKILLS

DNA extraction and quantification

PCR

Electrophoresis

Microsatellite primer screening

Grant Writing

Genetic tissue management

Ability to keep accurate laboratory records

Geographic Information Systems

Phylogenetic methods

Tissue collection from salamanders

Experience using morphometric techniques and
analyzing data

Extensive field experience working with birds
and amphibians

Teaching

EXPERIENCE

TEACHING

2012 Teaching assistant (Field ornithology) – Warren Wilson College

2013 Teaching assistant (Conservation Genetics) – Warren Wilson College

2014, 2016 Teaching assistant (Biology for Non-majors) – Washington State University

2015-2016 Teaching assistant (Ecology) – Washington State University

GENERAL

2013-2014 Genetics lab manager, Warren Wilson College

2012 Rotating field intern, Project Puffin, Audubon Society

AWARDS & GRANTS

AWARDS

GRANTS

- 2015, 2016** *Elling Foundation Award for Off-Campus Training and Research – Washington State University* (\$3221, \$4677, Co-PI A. Storfer)
- 2013** *Yarborough Grant – North Carolina Academy of Sciences* (\$567)
- 2012, 2013** *Pugh Endowed Fund for Undergraduate Research in the Division of Natural Science & Math – Warren Wilson College* (\$854, \$2000, Co-PI J.J. Apodaca)

PUBLICATIONS

IN PRESS

Marsh, DM, Cosentino, BJ, Jones, KS, Apodaca, JJ, Beard, KH, Bell, JM, ... **Patton, AH**, ... & Forsys, EA (2016). Effects of roads and land use on frog distributions across spatial scales and regions in the Eastern and Central United States. *Diversity and Distributions*.

IN PREP

Patton, AH, Epstein, B, Eastman, J, Harmon, LJ, Storfer, A. Hybridizing salamanders experience heightened diversification rates.

Patton, AH, Fraik, A, Storfer, A. Something about landscape genetics and landscape genomics.

Patton, AH, Uyeda, JC, Storfer, A. Are all salamanders truly ‘Macroscopic Microfauna’? Assessing the relationship between genome size and body size.

Patton, AH, Lance, S, Apodaca, JJ. Isolation and characterization of polymorphic microsatellite loci in the Green Salamander, *Aneides aeneus*.

Apodaca, JJ*, **Patton, AH***, Corser, J, Wilson, C, Williams, LA, Wake, DB Delimiting cryptic species in the green salamander, *Aneides aeneus*, using ecological niche models, population genetics, and phylogenetic reconstruction

*Authors contributed equally

PRESENTATIONS

- 2016** **Special Highlands Conference on Plethodontid Salamander Biology, Highlands, North Carolina.** *Assessing the role of lineage hybridizability on diversification dynamics in salamander.*
- 2015** **6TH Conference on the Biology of Plethodontid Salamanders, Tulsa Oklahoma** *Delimiting cryptic species in the Green salamander, *Aneides aeneus*, using ecological niche models, population genetics and phylogentic reconstruction.*
- 2014** **Southeast Partners in Amphibian and Reptile Conservation (SEPARC), Jamestown, Kentucky.** *Delimiting cryptic species in the Green salamander, *Aneides aeneus*, using ecological niche models, population genetics and phylogentic reconstruction.*
North Carolina Academy of Sciences (NCAS), Raleigh, North Carolina. *Conservation genetics of the Green salamander (*Aneides aeneus*) in Western North Carolina*
- 2013** **Samford University REU Final Symposium, Birmingham, Alabama.** *Using geometric morphometric analyses to distinguish between two Slimy salamander spesies in Central Alabama.*
- 2012** **Gulf of Maine Seabird Working Group, Bremen, Maine.** *Potential of landscape carpets for the enhancement of Tern nesting habitat*