MALLORY E. BEDWELL

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Education

- **Washington State University** August 2015- Present
  Masters student in the School of the Environment with a program of study in Natural Resources. Advisor: Caren Goldberg. Current GPA: 4.0

- **UC Berkeley. Magna cum laude** August 2005- May 2009
  Integrative Biology major. Completed degree in May 2009, magna cum laude. Overall GPA: 3.69. Major GPA: 3.51

- **University of Adelaide, Australia , UC Study Abroad Program** February 2008- July 2008

Lab and Research Experience

- **Graduate Student, Washington State University** August 2015-Present
  Utilizing genetic tools to help inform conservation decisions in Plumas Nation Forest, California. Conducting eDNA study to test questionable locations for threatened and endangered yellow-legged frogs. Using microsatellite data to examine if hybridization is taking place between the two frog species of interest. Will further use microsatellite data to study population structure of the endangered Sierra Nevada yellow-legged frog to guide translocation planning.

- **Research Associate, DuPont Pioneer** December 2010-August 2015
  Worked as member of Technology Integration group to support characterization of drought stress in maize. Provided GPS mapping for research station, organized and inputted user group experiments, regulated material field contact, equipment maintenance and troubleshooting, lead PPE eye and face safety program, directed and aided allometric data collection in the field, carried out ear yield analysis, and processed large amounts of image data in efficient manner.

- **Lab tech, Lemmon Lab** October 2009- October 2010
  Helped to study speciation in chorus frogs in Lemmon lab at Florida State University. Lab work included: DNA extraction, PCR, gel electrophoresis, primer design and testing, microsat genotyping, and Cot filtration. Participated in fieldwork to collect specimens and extracted tissues. Trained and oversaw 3 graduate students and 3 undergraduate students.

- **Honors Thesis, magna cum laude** October 2008- October 2009
  Conducted research project in the Moritz lab at UC Berkeley investigating the evolutionary origins of the salamander, *Ensatina eschscholtzii picta*. by sequencing mitochondrial DNA and creating phylogenies, analyzing microsats, examining climate data and collecting morphometrics. Learned sampling principles and experimental design.

- **Lab Assistant: University of Adelaide** March 2008- June 2008
  Held volunteer position assisting post doc Gaynor Dolman and her research in speciation of Australian Birds. Was trained on how to run PCR reactions, gel electrophoresis, and helped with DNA sequencing.

- **Undergraduate Research Apprenticeship Program** September 2007- December 2007
  Apprentice to grad student Juan Parra and helped with his research in color evolution in hummingbirds. Used spectrophotometer to measure feather reflectance and also carried out and presented my own project investigating overlap in hummingbird habitats and similarities in color.

- **Museum of Vertebrate Zoology, Prep Lab** September 2006-December 2007
  Worked in Prep lab creating bird skeletons for museum collections.

Awards

- **Boeing Environmental Endowed Graduate Fellowship** September 2016

Recognition

- **Maize Stress Product Development Core Value Award** December 2013
  Won core value award in "Respect for People" category for organizing canned food drive at Woodland research station.

- **Research Contribution Award** December 2011
  Received Research Contribution award for helping to design a portable ear photometry box.

- **SSB Undergraduate Diversity Award for Evolution meetings** June 2009
  Was selected for all expenses paid trip to the 2009 Evolution conference in Moscow, ID and created and presented a poster on my research on *Ensatina eschscholtzii picta.*

Presentations

- **Western Section of The Wildlife Society** February 2017
  Oral presentation: Using Genetic Tools to Investigate the Distribution of the Sierra Nevada Yellow-Legged Frog *(Rana sierrae)* in the Plumas National Forest

- **California/ Nevada Amphibian Population Task Force** January 2016
  Poster presentation: Using genetic tools to investigate distribution and connectivity of two Sierra Nevada amphibians, *Rana sierrae* and *Rana boylii*

- **Herp Talk** September 2009
  Gave presentation on the findings of my thesis: *Testing the ancestry of a ring species: using genetic, morphometric, and climatic analysis to infer the evolutionary origin of Ensatina eschscholtzii picta,* at UC Berkeley's Herp Talk.

- **Evolution Conference** June 2009
  Poster presentation: *Testing the ancestry of a ring species: using genetic, morphometric, and climatic analysis to infer the evolutionary origin of Ensatina eschscholtzii picta.*

Volunteering and Extra Curricular Activities

- August 2014-September 2014: USGS volunteer- Aided in Giant Garter Snake survey in CA Central Valley. Checked traps to investigate snake distribution and abundance.
- February 2010- October 2010: St. Frances Wildlife Rehabilitation Hospital
- April 2010: Central Florida Freshwater Turtle Research Group- Helped with turtle abundance survey in Manatee Springs, Florida.
- November 2009: Rainbow Run Turtle Project- Aided in turtle capture survey in Rainbow Springs, Florida. Captured turtles, took allometric measurements and placed PIT tags.

Computer Programs

- Sequencher
- GeneMapper
- ArcGIS
- MaxENT
- R

Languages Spoken

- Spanish: intermediate level