Jessie F Salter

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RESEARCH INTERESTS

Drivers of speciation in birds, phylogeography, next generation methods, & historical DNA.

EDUCATION

Louisiana State University, Baton Rouge, LA

August 2015 - present

Ph.D. Student

Department of Biological Sciences and Museum of Natural Science Advisors: Brant C. Faircloth and Robb T. Brumfield

Occidental College, Los Angeles, CA

August 2010 - May 2014

B.A. in Biology, cum laude

RESEARCH EXPERIENCE

Moore Laboratory of Zoology, Occidental College

May 2013 - September 2014

Undergraduate Researcher

Advisor: John E. McCormack

- **Designed project** to **resolve disputed localities in the Fulvous Owl (***Strix fulvescens***). Extracted DNA from toepad tissues** and amplified sections of two mitochondrial genes (CO2, ND6).
- Designed and optimized primers and amplified historical DNA from museum specimens (ND2, ATPase).
 Contributed to international study resolving controversial evolutionary history of Pine Siskins (Spinus pinus).
- Identified blood and feather samples, extracted DNA, and amplified genes using PCR for NSF-funded project to build new phylogenies of bird species of the Mexican highlands using genome-scale molecular methods and biogeographic methods to determine the influence of geological and climatic events on their evolutionary history.

PUBLICATIONS

Alvarez, S., **J. F. Salter**, J. E. McCormack, and B. Mila. In press. Speciation in mountain refugia: phylogeography and demographic history of the pine siskin and black-capped siskin complex. *Journal of Avian Biology*.

SCIENTIFIC PRESENTATIONS

Salter, J. F., J. M. Maley, J. E. McCormack. 2014. Sequencing DNA from museum specimens helps elucidate disputed localities in the Fulvous Owl (*Strix fulvescens*). Talk. Annual Meeting of the American Ornithologist's Union, Sep. 23-27, Estes Park, CO.

Salter, J. F., J. E. McCormack. 2013. Creating a phylogeography using genomic data for bird species from Mexican pine-oak forests. Talk. Occidental College Summer Research Program Conference, Jul. 31, Los Angeles, CA.

Salter, J. F., J. M. Notestein. 2010. Biofuel: a scientific, political, and ethical exploration. Talk. Evanston Township High School, Senior Studies Oral Defense, May 7, Evanston, IL.

Salter, J. F., K. G. Beaumont. 2007. Focal cell adhesion: an introduction. Talk. Evanston Township High School Annual Science Symposium, May 14, Evanston, IL.

GRANTS

Occidental College Summer Research Program Fellowship (\$3900)

2013

TEACHING EXPERIENCE

BIOL 1208 Intro Biology Lab for Science Majors

August 2015 - present

Graduate Teaching Assistant

OUTREACH

LSU Fall Fest October 2, 2015

I SUMNS Volunteer

Selected bird specimens from the LSUMNS collection to teach students and community members about the museum and ornithology program at LSU. Event was targeted to undergraduates and affiliated community members.

History 355 / Moore Laboratory of Zoology Collaboration

January - May 2014

Education in Action Program Facilitator

Developed a curriculum and six research topics for students in History 355 (Indigenous Peoples of Mexico). Using specimens and other resources from the MLZ collection, students investigated how the biology of Mexican bird species influenced their relative importance in Aztec culture, religion, and economy. Project culminated in a presentation to the Board of Trustees.

Los Angeles County Science Olympiad (26th & 27th Annual)

February 25, 2012 / February 23, 2013

Volunteer

Developed exam questions, proctored, and scored the Forestry event for Division B (middle school) students.

FIELD EXPERIENCE

SE Arizona May 31 – June 11, 2015

MLZ collecting trip

Focus on bird species of the Dragoon and Chiricahua Mountain sky islands

Costa Rica and Panama May 21 – June 14, 2014

Occidental College Tropical Ecology Field Course

La Selva Biological Station, Pacuare Nature Reserve (CR); Institute for Tropical Ecology and Conservation (Bocas del Toro, PA)