ALEXIS M. MYCHAJLIW
Department of Biology, 371 Serra Mall
Stanford University, Stanford, CA 94305; ph: 516-639-0180
Email: amychajl@stanford.edu; Twitter: @AlexisMychajliw

EDUCATION

2012 - present Stanford University, College of Humanities & Sciences
Ph.D. *Biology* (*Ecology & Evolution)*, Advisor: Elizabeth A. Hadly

2008 - 2012 Cornell University, College of Agriculture & Life Sciences
B.S. *Biological Sciences (Ecology & Evolutionary Biology)*
Minors in *Natural Resources, Applied Economics & Management*
Magna Cum Laude with Distinction in Research

GRANTS, FELLOWSHIPS & AWARDS

2013 Paleontological Society Outreach & Education Grant ($2,500)
NSF Graduate Research Fellowship Honorable Mention

2012 NSF Graduate Research Fellowship Honorable Mention
Highest Honors in Ecology & Evolutionary Biology, Cornell University

2011 Dextra Undergraduate Research Fund ($1,300)

2010 Rawlings Cornell Presidential Research Fellowship ($5,000)
Cornell/NSF Diversity in Biology Fellowship ($21,000)

2009 Research Internship in Field Science, Shoals Marine Laboratory

2008 Intel Science Talent Search, 9th place National Winner ($20,000)
National Merit ($8,000)

TEACHING EXPERIENCE

Stanford University
BIO 101 Ecology, Fall 2013, K. Peay

Cornell University
BIOMG 1250 Personal Genomics & Medicine, Spring 2011-12, C. Aquadro, S. Wells
BIOSM 1780 Evolution & Marine Diversity, Summer 2012, W. Bemis
BIOEE 1780 Evolution & Diversity, Fall 2010, K. Zamudio
BIOEE 2740 Vertebrates: Structure, Function, Evolution, Spring 2010-12, B. McGuire
BIOEE 2780 Evolutionary Biology, Fall 2009, Spring 2010, R. Harrison

RESEARCH EXPERIENCE

Stanford University, Fall 2012 – present
Department of Biology, Advisor: Elizabeth A. Hadly
PhD student— macroevolution, conservation biology, mammalogy.
Established field sites in the Dominican Republic and Haiti in collaboration with local NGOs.

Museum Collections, Spring 2010 – present
Use of mammalogy and paleontology collections for morphometrics and genetics at AMNH, CUMV, FLMNH, MCZ, MVZ, Museo del Hombre Dominicano, NMNH.

Cornell University, Spring 2011 – Spring 2012
Department of Ecology & Evolutionary Biology, Advisor: Dr. Richard Harrison
Honors thesis research, field and lab, on population genetics of an insular muskrat population.

Shoals Marine Laboratory, Summer 2010
Independent field and lab research on the behavioral ecology of a shorebird breeding colony Appledore Island, ME.

Cornell University, Spring 2009 – Fall 2010
Department of Ecology & Evolutionary Biology, Advisor: Dr. Richard Harrison
Field and lab assistant in insect speciation study, Ithaca, NY.

New York City Audubon Society, Summers 2008, 2009
Conservation Science Intern, responsible for coordination of citizen scientists, city park breeding bird censuses, seabird banding, radiotelemetry tracking, environmental education campaigns.

Cornell Cooperative Extension/Agroforestry Resource Center, Summers 2006, 2007
Research associate for stream ecological health and invertebrate diversity monitoring, Acra, NY.

CONFERENCES & WORKSHOPS

2013
Student Conference on Conservation Science – American Museum of Natural History
*"*Integrating ancient and modern DNA to conserve a "living fossil" mammal, the Solenodon". **A. Mychajliw** and E. Hadly. Poster.
"Applying local ecological knowledge to the conservation of the Hispaniolan Solenodon". L. Cussen, **A. Mychajliw**, and E. Hadly. Poster.

Next Generation Sequencing Workshop – Hopkins Marine Station, Stanford University
Analysis of RNA-seq population transcriptomic dataset: quality control, correlating SNPs and gene expression profiles to environmental settings, evaluating SNP selection by gene category and amino acid substitutions, and basic population genomics.

Assessing the Synergy Between Climate Change, Human Population Density, and Extinction Intensity for Quaternary South American Megafauna – Center for Latin American Studies, Stanford University
Region leader responsible for Caribbean dataset, as part of an international workshop for researchers collaborating on NSF-funded project.

2012
Meeting of the American Society of Mammalogists – Reno, NV
"Origin and timing of a recent insular colonization of muskrats, *Ondatra zibethicus*". **A Mychajliw** and R. Harrison. Poster.

Honors Thesis Symposium – Dept. of Ecology & Evolutionary Biology, Cornell University
"Origin and timing of a recent insular colonization of muskrats, *Ondatra zibethicus*". **A Mychajliw** and R. Harrison. Oral Presentation.

SELECTED SYNERGISTIC ACTIVITIES

Museum Exhibit Development – Museo del Hombre, Santo Domingo, Dominican Republic
Created two educational exhibits in Spanish: 1- diorama and posters of the last endemic mammals of Hispaniola; 2- description of extinct Hispaniolan mammals and paleontology.

Conservation Education Workshops with Children's Camp – Parque Zoologico Nacional, Santo Domingo, Dominican Republic
Developed and taught four workshops about topics in conservation and paleontology for 20+ children ages 4-13, in Spanish.

Podcast, Dominican Paleontology
Producing a podcast about extinct mammals of the Dominican Republic, aimed to highlight work by Dominican paleontologists. To consist of interviews conducted in Spanish and English.

ADVISING & MENTORSHIP ACTIVITIES

Undergraduate Research Mentorship, 2013 – present
Train and supervise independent research projects of two Stanford undergraduate students, including field experience and assistance in applying to funding opportunities.

Student Outreach to Alumni Resources, 2013 – present
Serve as a mentor to 1st year PhD student in the Stanford Biosciences community.

East Palo Alto Tennis & Tutoring, 2012 – present
Act as academic/STEM tutor and mentor to high school student.

Undergraduate Academic Advisor in Biology Cornell University, 2010 – 2012.
Advised 15 freshman students pursuing biology majors for entirety of their first year.

PUBLICATIONS

Genetic validation of a cryptic insular invasion of muskrats in North America. **A. Mychajliw** and R. Harrison. In prep for the journal *Biological Invasions*.

RELEVANT ADVANCED COURSEWORK

Biological Statistics, Environmental Policy Processes, Field Ecology & Conservation, Fundamentals of Modeling, Genomics, Molecular Evolution, Population Genetics, Socio-cultural and Ecological Role of Diversity, Zooarchaeology