

Caleb Caswell-Levy

310.902.9039

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CalebCaswellLevy@berkeley.edu

EDUCATION

University of California – Berkeley, Phd Candidate, Mishler Lab, Integrative Biology Current GPA - 4.0
Entered: Fall 2014 Advanced to Candidacy: Spring 2016 Major Professor: Brent Mishler
-Working Dissertation Title: “Biogeography, ecology, and systematics of the Orthotrichaceae (Musci)”

University of California – Santa Cruz, Bachelor of Science, Ecology and Evolutionary Biology Dec. 2010
-Graduated with honors / GPA within major 3.7

-Senior Thesis: Caswell-Levy, C. 2009. *The role of mycorrhizae in the inhibition Douglas-fir (Pseudotsuga menziesii) seedling survival by secondary defense compounds in Scotch broom (Cytisus scoparius) leaf litter.* Unpublished senior thesis, University of California- Santa Cruz, Santa Cruz, CA.

RESEARCH INTERESTS

- Ecology, biogeography and systematics of the Orthotrichaceae; Plant community ecology; Ecophysiology and water relations of bryophytes; California natural history

AWARDS

- Outstanding Graduate Student Instructor Award 2016
- Foreign Language and Area Studies Fellowship (FLAS)- Indonesian language

SELECTED OUTREACH ACTIVITIES

- Volunteer Instructor, Introduction To Bryophytes workshop, Jepson Herbarium, March 2017
- Organizer and speaker, Biodiversity Basics lessons, Hatch Elementary School, Half Moon Bay, 2016, 2017
- Volunteer Instructor, Intermediate Bryology workshop, Jepson and University Herbaria, March 2015
- Organizer, Team lead, Early Detection Weed Watchers program, Point Reyes National Seashore 2012-2014

TEACHING EXPERIENCE

UC Berkeley-

Graduate Student Instructor- Biology and Geomorphology of Tropical Islands Fall 2017
Graduate Student Instructor- IB 117LF: Medical Ethnobotany Fall 2016
Graduate Student Instructor- Bio 1B: General Biology Field Section Fall 2015
Graduate Student Instructor- Bio 1B: General Biology Fall 2014, Spring 2015

UC Santa Cruz-

Undergraduate TA- Bio 20A: Introduction to Cell and Molecular Biology Fall 2008

Other:

Music Teacher, Next Note Music Fall 2010-Spring 2013

OTHER PROFESSIONAL EXPERIENCE

Museum of Vertebrate Zoology-Field trip to Sulawesi March 2016

- Participated on field survey to Sulawesi Island in Indonesia as part of larger biodiversity survey of the island.

UC Botanical Garden- Spring 2016

Graduate Student Researcher- Collected plants and made vouchers for the UC/Jepson Herbaria

National Park Service- Inventory and Monitoring 40hrs/week April 2013 - Dec. 2013

Lead Field Technician- Plant community

- Lead a field crew at monitoring sites
- Identified plants, established study sites based on vegetation classifications, ground-truthed previous vegetation map, wrote annual reports on the status of monitored vegetation
- Authored unpublished paper on wind-dwarfism in coastal oak species in the Marin Headlands

National Park Service-Habitat Restoration 10hrs/week Aug. 2012 - Nov. 2012

Independent Contractor

- Removed invasive species such as *Genista monspessulana* and *Leucanthemum vulgare* from sensitive native habitat.
- Worked for National Park Service on variety of restoration projects.

University of California – Santa Cruz, Zavaleta Laboratory 20hrs/week April 2009 – Feb. 2010

Field Assistant- Valley Oak (*Quercus lobata*) population dynamics study

- Performed vegetation sampling and field plant identification, collected long-term valley oak population data

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- Prepared samples for stable isotope analysis to assess amount of Nitrogen pollution in tree leaves, core samples and soil to determine its effect on recruitment.

UC - Santa Cruz, Museum of Natural History Collections 15hrs/week Aug. 2009 – Feb. 2010
Assistant Herbarium Curator

- Identified, prepared and cataloged plant specimens, and taxidermied avian specimens.
- Contributed to University of California – Berkeley's Consortium of California Herbaria- an online combined database of the collections of major California herbaria.

UC - Santa Cruz, Modified Supplemental Instruction 10hrs/week Sep. 2008 - Dec. 2008
Teacher's Assistant - Intro to Cellular and Molecular Biology

- Lead discussions with up to 20 students, explained difficult concepts such as meiosis and photosynthesis.
- Achieved exceptional grade in course and was asked to lead discussion section the following year using research-based education methods.

INTERNSHIPS

National Park Service- Inventory and Monitoring 40hrs/week April 2012 - Jan. 2013
Intern- Plant community change monitoring

- Ground-truthed vegetation map, established sites for first year of vegetation monitoring program
- Conducted field work for study of wind-dwarfed oaks in the Marin Headlands
- Performed surveys for rare and invasive plants in Pinnacles National Park, Golden Gate National Recreation Area, and Point Reyes National Seashore

VOLUNTEER POSITIONS

Santa Monica Bay Restoration Commission 20hrs/week March 2011-Sep. 2011
Volunteer - Salt Marsh Monitoring

- Monitored intertidal and *Sarcocornia pacifica* salt marsh sites
- Identified plants and intertidal invertebrates

University of California - Santa Cruz, Parker Laboratory 10hrs/week Sep 2008 – April 2010
Field Assistant

Collected and recorded data for a variety of research projects
Travelled to Washington state to collect data for study on Scotch broom invasion

UC Santa Cruz, Letourneau Laboratory 10hrs/week Sep 2007-Jan. 2008
Field Assistant

- Collected data for study investigating interactions between canopy cover and herbivory

UNPUBLISHED MANUSCRIPTS

- Tan, B., Hutton, D., Ludwig, K., Jauregui-Lazo, J., Caswell-Levy, C. "*The bryophyte flora of Mount Diablo State Park*"
- Caswell-Levy, C., Steers, R., Spaulding, H., Wrubel, E. Forrestel, A. "*Dwarf oaks in a California coastal headland: relationships with geologic substrate and wind exposure.*" In review, National Park Service, Sausalito, CA. Submitted to *Madroño*.

PRESENTATIONS

Tan, B., Hutton, D., Ludwig, K., Jauregui-Lazo, J., Caswell-Levy, C. "*The bryophyte flora of Mount Diablo State Park*" To be given at the Mary Bowerman Science and Research Colloquium, UC/Jepson Herbaria, December 2015.

CERTIFICATIONS and EXTRAMURAL COURSES

Wilderness First Responder, CPR, PADI open water SCUBA diving

Defensive Driving, Operational Leadership (both through National Park Service)