

# Jesse D. Walker

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## Education

- Utah State University: PhD program in Ecology/Biology, started Fall 2003
- University of California, Berkeley: B.A. in Integrative Biology (graduated Spring 2003)

## Work Experience

- Teaching Assistant for Biology 1210 (General Biology) at USU. Responsible for three lab sections, about 25-30 students each.
- Field Assistant for Mary Power (Professor, UCB, Integrative Biology) surveying caddisflies and algae in streams in Mendocino and Humboldt counties, CA. Work also included *Rana boylei* egg mass surveys and tadpole behavioral observations, as well as insect, lizard, and bird sampling in the Truckee River watershed. (June-August 2002)
- Lab Assistant for Mary Power, sorting and identifying aquatic insects elutriated from river sediment cores (Sept. 01-Dec 02)
- Projectionist for the Integrative Biology Dept. (UCB), responsible for setup and projection equipment at weekly department seminars (Sept. 01-May 02)
- Field Assistant for Wayne Sousa (Professor, UCB, Integrative Biology), researching the effect of lightning-created canopy gaps on mangrove regeneration in Galeta, Panama (July 2001)
- Field Assistant for Mary Power, studying the effect of increased sedimentation on the behavior of juvenile steelhead trout (*Oncorhynchus mykiss*) in the South Fork Eel River, Mendocino County, CA (June, August 2001)
- Field Assistant for Cheryl Briggs (Assoc. Professor, UCB, Integrative Biology), studying parasitoid dispersal (June-August 2000)
  - Responsible for data collection, daily fieldwork, insect handling, gall microdissections, independent project, etc.
- Tutor of high school students (8/94-present, intermittently)

## Other (non-paid) Biology Research

- Undergraduate Student Instructor (UGSI) for the Biology 1B Field Section at UCB, supervising the research projects of other students working on plant diversity in a coastal salt marsh community (1/01-5/01), the differential utilization of native versus invasive plants by terrestrial insects (8/01-12/01), the secondary defenses of *Baccharis pilularis* to parasitism (1/02-05/02), avian distributions on the UCB campus (8/02-12/02), and microhabitat preferences of *Sceloporus occidentalis* (1/03-05/03)
- Design and implementation of an experiment examining insect parasitoid dispersal, to determine the movement patterns of various *Hymenoptera* spp. that parasitize midge eggs/larvae within galls on *Baccharis pilularis*. (6/00-5/01)

- Group research project investigating environmental factors influencing the invasion of Fuller's Teasel, *Dipsacus fullonum*, in a coastal prairie grassland community (part of UCB's Biology Field Section program) (1/00-5/00)

## Relevant Coursework

Analysis of Environmental Data	International Rural Development Policy
Animal Behavior	Invertebrate Zoology
Aquatic Entomology	Mammalogy
Behavioral Ecology	Modeling within GIS
Biology (1A/1B)	Molecular Ecology
Conservation Biology	Natural History of the Vertebrates
Ecology (graduate course)	Neurons and Networks
Ecosystemology	Organic Chemistry (3A/3B)
Environmental Philosophy and Ethics	Physics (8A/8B)
Evolutionary Genetics	Physiology, Structure, and Biomechanics
Experimental Design and Stat. Analysis	Population and Community Ecology
Herpetology	Principles of Biodiversity
Geographic Information Systems (GIS)	Probability and Statistics for Life Sciences

*Also:* seminar courses on Animal Behavior, Ecology, Herpetology, Spatial Ecology, and Vertebrate Zoology.

## Extracurricular Activities

- Member of planning committee (A/V Coordinator) for the 2003 Bay Area Conservation Biology Symposium, sponsored by the UC Berkeley chapter of the Society for Conservation Biology (10/02-02/03)
- President of SCIBUGS (The Society of Cal Integrative Biology Undergraduate Students) (09/01-05/03)
- Training assistant for the UCB scuba diving program (introductory and scientific courses) (08/01-12/02)
- Served a 24-month mission to New Jersey for the Church of Jesus Christ of Latter-Day Saints (12/97-12/99)
- Academic Decathlon team member (1994-1996), Team Captain (1995, 1996)

## Skills/Certifications/Awards

- AAUS certified Scientific Diver (through UC Berkeley)
- NAUI certified Assistant Instructor
- Certified in First Aid, CPR, and Oxygen Administration for Scuba Divers
- Computer skills— PC hardware/software (incl. Word, Excel, PowerPoint, JMP, ArcGIS)
- NSF REU grant for parasitoid dispersal project (6/00)
- Eagle Scout (7/96)

## Memberships

- Herpetologists' League
- Partners in Amphibian and Reptile Conservation (PARC)
- Society for Conservation Biology (UC Berkeley chapter)
- Society for the Study of Amphibians and Reptiles (SSAR)