

KATHERINE BIBEE WOLFSON

www.katiewolfson.com

EDUCATION

University of Colorado Boulder, Boulder, CO; MS in Museum & Field Studies; 2013-2015 (expected);
Public/Administration Track; Concentrations: Ecology & Evolutionary Biology and Education

The Colorado College, Colorado Springs, CO; BA in Biology; Minor in Film Studies; 2006-2010;
Senior Thesis: Population Differentiation of *Impatiens capensis* at the Range Limits

CURRENT POSITIONS

Entomology Graduate Assistant, University of Colorado Museum of Natural History 2013-present

- Assist with maintenance of entomology collection with 700,000+ specimens
- Macrophotography of insect specimens
- Train volunteers and student workers on collection procedures

Outreach Educator, University of Colorado Museum of Natural History 2014-present

- Design and implement water education outreach program for rural communities
- Coordinate programming, travel, and lodging for outreach at CO county fairs

PAST WORK EXPERIENCE

Education Intern, Audubon Society of Greater Denver 2014

- Instruct hands-on, creative, natural science programs for school groups at the Audubon Center in Chatfield & at Denver Metro schools
- Develop, enhance, and implement curricula and programs for the ASGD
- Encourage stewardship in students through enthusiasm, knowledge, and passion for birds, other wildlife, & habitats

Seasonal Park Interpreter, Bear Creek Nature Center 2012-13

- Organized and led one-week nature camps for 6-12 year-olds, each focused on connecting children with the outdoors & inspiring stewardship at an early age
- Planned and led variety of nature education programs for a variety of audiences, 2 year-olds to adults
- Researched, designed, developed and assembled interpretive exhibits, programs, media, & materials
- Produced marketing video for the summer camps and volunteer program

Paraprofessional, Colorado College Biology Department 2011-13

- Organized and taught a variety of biology labs (indoors and outdoors)
- Planned and led class review sessions in a wide range of biology subjects
- Designed and administered lab practical exams
- Graded student exams, labs, projects, presentations
- Wrote and produced instructional videos on lab techniques

Research Specialist, University of Connecticut & Colorado College 2010-11

- Performed ELISA tests to determine foliar abscisic acid concentrations
- Compared drought response across white protea populations to determine whether populations differentiated and whether the pattern of differentiation corresponded to predictions from expected drought stress in the wild populations from which they were collected

Teaching Assistant, Colorado College Biology Department 2009-10

- Assisted students with material presented in the lab & with independent experiment design
- Organized & led class study sessions and taught protocol & key concepts of botany labs
- Assisted with set up and clean up of labs

Student Lab Technician, Colorado College Academic Technology Services 2008-10

- Taught students, faculty, & staff about school computers and computer programs
- Assisted with completion of academic technology projects
- Compiled statistics on lab usage by students, faculty, and administrators

Research and Greenhouse Assistant, Colorado College Biology Department 2006-09

- Designed and executed plant physiology and population biology experiments
- Recorded, organized, and interpreted past experiment data
- Planted, maintained, and harvested plant populations in greenhouse and growth chambers

RELEVANT VOLUNTEER EXPERIENCE

Volunteer Naturalist, Audubon Society of Greater Denver 2014-present

- Instruct hands-on, creative, natural science programs for school groups at the Audubon Center in Chatfield & at Denver Metro schools
- Write & revise environmental education curriculum

Museum Educator, University of Colorado Museum of Natural History 2013-present

- Design educational programs highlighting the museum collections
- Teach hour-long lessons focused on the biology collections to elementary school groups

Interpretive Volunteer, El Paso County Nature Centers 2012-13

- Connect people to their natural & cultural resources and inspire them to become stewards of local parks and our world
- Lead natural science and outdoor education programs for scouts, school groups, & families
- Assist with nature center projects such as logo design and event planning

Girl Scout Leader, Girl Scouts of Colorado 2012-13

- Led a troop of 12 girls in K-4th grade
- Organized and taught lessons, led troop outings, & coordinated parents volunteers
- Instilled confidence, leadership skills, sense of stewardship, & a love for the outdoors in young girls

Volunteer, Cheyenne Mountain Zoo 2010

- Assisted zookeepers with feeding, cleaning, & maintenance in the Monkeys, Bears, & Lions Department
- Helped at various zoo special events & provided information to zoo visitors about threatened & endangered species from around the world

Lab Leader, Cool Science & Girls Day in the Lab 2009-10

- Planned, organized, and researched science labs for K-8th graders
- Designed and led labs on plant biology and comparative vertebrate anatomy

RESEARCH

Population Differentiation of *Impatiens capensis* & *Protea* 2007-11

- Examined physiological (e.g. stomatal conductance with a porometer) & morphological differences among three populations of *I. capensis* from across the species' range in the U.S. and considered climate change implications
- Compared *Protea* drought responses across South African populations
- Performed ELISA tests to determine foliar abscisic acid concentrations
- Designed & conducted multiple greenhouse experiments studying high light and drought responses

Water-Use Efficiency and Fitness in *Tamarix ramosissima* 2009

- Measured fitness of the wild, invasive species *T. ramosissima* in the field
- Examined selection strength for water-use efficiency & considered control implications

Drought Responses of *Arabidopsis thaliana* Phytochrome-mutants 2006-07

- Examined physiological and morphological differences among *A. thaliana* phytochrome-mutants
- Assisted with growth-chamber experiments examining responses to drought stress

PUBLICATIONS

Heschel, M. Shane, Ann Evankow, **Katherine Bibee Wolfson**, Jane Carlson, & Kent E. Holsinger. 2014. Drought response diversification in African *Protea* species. *International Journal of Plant Sciences*. 175(4): 442-449.

Bibee, Katherine, Katie Shishido, Ronald P. Hathaway, and M. Shane Heschel. 2011. Population differentiation of *Impatiens capensis* (Balsaminaceae) at the range limit. *International Journal of Plant Sciences*. 172: 211-219.

Boggs, Julian Z., Katrina Loewy, **Katherine Bibee**, and M. Shane Heschel. 2010. Phytochromes affect drought response physiology in *Arabidopsis thaliana*. *Plant Growth Regulation*. 60: 77-81.

POSTERS / PRESENTATIONS

Bibee, Katherine, Katie Shishido, Ronald P. Hathaway, M. Shane Heschel. 2010. "Population differentiation in *Impatiens capensis* (Balsaminaceae) across the range limits". Botany 2010.

Bibee, Katherine, Katie Shishido, M. Shane Heschel. 2008 & 2009. "Living life on the edge: population differentiation of *Impatiens capensis* at the range limits". PEW Midstates Consortium: Symposia in the Biological Sciences & Psychology and Botany 2009. (runner-up for best poster at Botany 2009)

Boggs, Julian, **Katherine Bibee**, and M. Shane Heschel. 2007. "Interactions between drought responses and phytochrome pathways". Botany & Plant Biology Joint Congress.

VIDEOS

Video portfolio at <http://www.youtube.com/ecofilmkt>

RELEVANT COURSEWORK

Graduate: Museum Education, Museum Administration, Collections Management, Advanced Seminar in Museum Issues: Assessment, Introduction to Museum Studies, Film & Climate Change

Undergraduate: Conservation Biology, Biology of Vertebrates, Biology of Plants, Ecology, Seminar in Evolutionary Biology, Animal Behavior, Field Zoology, Ornithology, Ecology & Biogeography in Patagonia, Primatology, Biostatistics & Experimental Design, Introduction to G.I.S., Molecular and Classical Genetics, Cell Biology, Physical Geology, Historical Geology, Intro to Psychology: Bases of Behavior

HONORS AND AWARDS

Museum Student Research Award (2014); Collie Fund (2014); Colorado College Class of 2013 Mentor (2013); Graduated with Distinction & Cum Laude (2010); Mary Alice Hamilton Award in Biology (2010); Crown-Goodman Presidential Scholarship (2009-10); Mortar Board Honor Society (2009-10); Dr. Robert 'Doc' Stabler Scholarship (2009-10); Colorado College Merit Scholarship (2006-10); Dean's List, 3 years (2006-07, 2008-10); Beta Scholarship (2006-07); National Honor Society Scholarship (2006-07); Girl Scout Gold Award (2005)

PROFESSIONAL SOCIETIES

- American Alliance of Museums
- American Evaluation Association
- Citizen Science Association
- Colorado Alliance for Environmental Education

SPECIAL SKILLS

- Windows & OSX proficiency
 - Skilled user of Microsoft Office
 - Familiarity with Minitab & JMP
 - Basic G.I.S. skills
 - Elementary Spanish
 - Curriculum development
- Museum Education Roundtable
 - National Association for Interpretation
 - Society for the Preservation of Natural History Collections
 - Visitor Studies Association
- Event planning
 - Macrophotography using Helicon Focus
 - Intermediate design skills in Photoshop
 - Advanced filmmaking skills
 - Skilled user of Final Cut Pro, Avid Express DV, & iMovie