

Kasey E. Barton

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EMPLOYMENT

Assistant Professor

Botany Department, University of Hawai'i at Manoa.

Research Associate

Royal Holloway, University of London. March 2008 – December 2009

Postdoc Advisor: Julia Koricheva

Natural Environment Research Council Postdoctoral Fellowship

EDUCATION

Ph.D. Ecology and Evolutionary Biology, University of Colorado, Boulder. May 2007

Ph.D. Advisor: M. Deane Bowers

Ph.D. Committee: Yan Linhart, William Bowman, Tom Ranker

Organization for Tropical Studies, University of Costa Rica, Summer 2001

Introduction to Tropical Biology (OTS 99-1) participant

B.S. Biological Sciences, Stanford University, Palo Alto, CA. 1995-1999

Honors Thesis

Hopkins Marine Station, Stanford University, Winter 1998

One of 20 students accepted to marine biology program.

PUBLICATIONS

Barton, K.E. and J. Koricheva (in press) The ontogeny of plant defense and herbivory: characterizing general patterns using meta-analysis. **American Naturalist**

Sultan, S. E., **K. Barton**, and A. M. Wilczek (2009) Contrasting patterns of transgenerational plasticity in ecologically distinct congeners. **Ecology** 90: 1831-1839.

Barton, K. E. (2008) Phenotypic plasticity in seedling defense strategies: compensatory growth and chemical induction. **Oikos** 117: 917-925.

Barton, K. E. (2007) Early ontogenetic patterns in chemical defense in *Plantago*: Genetic variation and trade-offs. **American Journal of Botany** 94: 56-66.

Barton, K. E. and M. D. Bowers (2006) Neighbor species differentially alter resistance phenotypes in *Plantago*. **Oecologia** 150:442-452.

Barton, K. E., N. J. Sanders, and D. M. Gordon (2002) The effects of proximity and colony age on interspecific interference competition between the desert ants *Pogonomyrmex barbatus* and *Aphaenogaster cockerelli*. **American Midland Naturalist** 148: 376-382.

Ackerly, D. D., C. A. Knight, S. B. Weiss, **K. Barton** and K. P. Starmer (2002) Leaf size, specific leaf area and microhabitat distribution of chaparral woody plants: contrasting patterns in species level and community level analyses. **Oecologia** 130: 449-457.

Sanders, N. J., **K. E. Barton**, and D. M. Gordon (2001) Long-term dynamics of the distribution of the invasive Argentine ant, *Linepithema humile*, and native ant taxa in northern California. **Oecologia** 127: 123-130.

RESEARCH GRANTS and FELLOWSHIPS - EXTERNAL

U. K. Natural Environment Research Council Postdoctoral Fellowship 2008-2011

One of 25 recipients

£268,275; Sponsoring scientist: Julia Koricheva, Royal Holloway U. London

National Science Foundation International Postdoctoral Fellowship 2007

\$141,700; Sponsoring scientist: Julia Koricheva, Royal Holloway U. London

Declined

Achievement Rewards for College Scientists Scholarship 2002 – 2004

\$15,000

Philanthropic Educational Opportunities Scholarship 2002

\$8,000

Organization for Tropical Studies 2002

\$1672; 2 student grants

RESEARCH GRANTS and FELLOWSHIPS - INTERNAL

E. E. Biology, University of Colorado Graduate Fellowships 2004, 2005

\$18,000; 2 fellowships

E. E. Biology, University of Colorado Graduate Research Grants 2001 - 2005

\$15,510; 11 grants

Biological Sciences, Stanford University Undergraduate Research Grant 1998

\$2500

AWARDS

University of Colorado, Graduate Student Research and Creative Work Awards 2005

One of three recipients across all departments

Edna Bailey Sussman Environmental Internship 2004

E. E. Biology, University of Colorado Excellence in Teaching Award 2003

Stanford University Firestone Medal for Undergraduate Research 1999

TEACHING EXPERIENCE

U. Colorado Lab Coordinator

Spring 2007

Non-Majors General Biology

U. Colorado Teaching Assistant

- Insect Biology 2003, 2006, 2007
- Non-majors General Biology 2006
- Plants and Society 2003
- Genetics and Development 2001, 2002
- Evolutionary Biology 2002
- Majors General Biology I and II 2000, 2001

Invited Lectures at the University of Colorado:

- Insect Biology: “Anti-insect defenses of plants” 2003, 2005, 2006, 2007
“Beneficial insects” 2003, 2005, 2006
- General Biology: “Prokaryotes: diversity and biology” 2006
- Plants and Society: “Beneficial insects and their associated plants” 2003, 2004
“Spices: An evolutionary explanation for their use” 2003
“Laboratory: Valerian root analyses” 2003
- Evolutionary Biology: “Coevolution” 2002

PROFESSIONAL PRESENTATIONS

Invited Seminars

- Hawaii Division of Forestry and Wildlife, Dept of Land and Natural Resources 2009
Plymouth University, UK, Biology Dept. 2008
University of Hawaii, Botany Dept. 2008
University of Colorado, Ecology and Evolutionary Biology Dept. 2006
Western State College, Gunnison, CO, Biology Dept. 2006

Conferences

- British Ecological Society Annual Meeting 2008
Gordon Conference on Plant-Herbivore Interactions 2007
Ecological Society of America Annual Conference 2006
Guild of Rocky Mountain Population Biologists (GRMPS) Annual Mtg. 2005
Ecology and Evolutionary Biology Annual Symposium, CU 2005
Gordon Conference on Plant-Herbivore Interactions 2004
Ecological Society of America Annual Conference 2003
High Country Lepidopterists Society Annual Meeting 2002

SERVICE

- Reviewer for manuscripts at: *American Journal of Botany*, *Annals of Botany*, *Ecology*, *Functional Ecology*, *Oecologia*
- Coordinator for EEB Section, Royal Holloway Biology Seminar Series 2008
Organized, scheduled weekly colloquia with visiting scientists
- Mentor for undergraduate students: 5 (CU), 4 (Wesleyan) 1999 - 2005
- Coordinator, EEB Colloquium Series 2002-2003

Planned, scheduled, organized weekly colloquia with visiting scientists.

PROFESSIONAL SOCIETIES

The Ecological Society of America, 2000-present

Sigma Xi, Full Membership, 2004-present

Botanical Society of America, 2005-present