

# Alyssa Hernandez

Harvard University  
Department of Organismic & Evolutionary Biology  
Museum of Comparative Zoology, Room 103B  
26 Oxford Street, Cambridge, MA 02138  
(805) 910-9471  
ahernandez@g.harvard.edu

## EDUCATION

**PhD Student, Department of Organismic and Evolutionary Biology** August 2015-Present  
Harvard University, Cambridge MA

**Bachelor of Science in Natural Resources, Applied Ecology** August 2006-August 2010  
Cornell University, Ithaca NY

## RESEARCH EXPERIENCE

**Laboratory Assistant II** December 2012-July 2015  
UC Berkeley-Van Steenwyk Laboratory, Berkeley CA

### Major Accomplishments

- Played a key role in a large-scale project examining the use of neonicotinoid insecticides in California and its relationship to European honey bee (*Apis mellifera*) decline
- Managed two different projects focusing on the control of codling moth (*Cydia pomonella*) in English walnut (*Juglans regia*) using different combinations of low-risk insecticides
- Directed a project that involved testing the attractiveness of different trap/lure combinations for monitoring walnut husk fly (*Rhagoletis completa*) in English walnut
- Performed various laboratory experiments testing the susceptibility of different English walnut cultivars to walnut husk fly infestation

**Collections Volunteer** October 2012-December 2012 & March 2015-July 2015  
UC Berkeley-Essig Museum of Entomology, Berkeley CA

### Major Accomplishments

- Organized portions of the unidentified Coleoptera collection, as well as sorted them into family groups
- Worked within a specific family of unidentified beetles (Family Chrysomelidae) within the collection and identified them to the genus level

**Laboratory Assistant I** April 2012-October 2012  
UC Berkeley-Kremen Laboratory, Berkeley CA

### Major Accomplishments

- Performed insect-oriented field collection for the Kremen Lab's primary research project focusing on native pollinator occupancy within established hedgerows in Yolo County, California
- Contributed to a PhD study that examined the emergence of nesting bees along agricultural field settings in Yolo County, California.
- Performed laboratory work that involved extensive preparation and database entry of various insect specimens for the Kremen Lab's research collection

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## **Undergraduate Research Lab Assistant**

January 2007-September 2008

Ecology and Evolutionary Biology Department, Cornell University, Ithaca NY

### Major Accomplishments

- Maintained a simulated ocean system containing living coral samples
- Performed water analysis tests on both ocean system water and isotope laced water
- Helped to construct water test facility to provide setting for various water quality experiments
- Participated in a project that examined how nutrient enrichment in sea water can advance the spread of a fungal disease, aspergillosis, in sea fan corals

## **Research Intern**

May 2008-August 2008

Harvard Forest, Harvard University, Petersham, MA

### Major Accomplishments

- Developed a research project examining how various forest canopy densities affect the competition dynamics of carabid beetles
- Collected soil respiration measurements on a biweekly basis
- Provided statistical analysis assistance to lead researcher
- Performed laboratory work involving extensive invertebrate identification and preservation

## **PROFESSIONAL/INTERNSHIP EXPERIENCE**

### **AmeriCorps Member**

October 2010-August 2011

USDA/Resource Conservation District Local Partnership Office, Half Moon Bay, CA

### Major Accomplishments

- Worked with District Conservationist to educate local farmers about beneficial insects and increased implementation of integrated pest management of farms
- Helped local partnership office build capacity to provide entomological technical assistance to landowners
- Led in field-based entomology instruction for local high school and adult students
- Developed and implemented a written insect monitoring protocol (involving both pest and beneficial insects) for San Mateo County organic farms
- Assisted RCD Conservation Associate with weekly freshwater and ocean water quality monitoring

### **Student Conservation Intern**

May 2009-August 2009

US FWS Rachel Carson National Wildlife Refuge, Wells, ME

### Major Accomplishments

- Helped to implement and provide field assistance on a project involving the biological control of Purple Loosestrife (*Lythrum salicaria*) through *Galerucella* beetles
- Delivered weekend environmental education programs
- Provided technical assistance in marsh and invasive plant studies
- Worked with and helped manage the summer Youth Conservation Corps program

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## TEACHING EXPERIENCE

### Undergraduate Teaching Assistant

August 2009-December 2009

Natural Resources Department, Cornell University, Ithaca, NY

#### Major Accomplishments

- Spent 8 hours a week teaching field biology skills to undergraduate students (e.g. map reading, plant identification)
- Taught identification of over 300 Northeastern plant, animal and bird species
- Organized and supervised weekend field trips at Arnot Teaching and Research Forest, Ithaca NY

## PRESENTATIONS

**Research presenter**, Orchard Pest and Disease Management Conference, Portland, OR January 2015

- Presentation: Hernandez (2015) *Temperature and Time Requirements for Walnut Husk Fly Emergence*

**Research presenter**, Orchard Pest and Disease Management Conference, Portland, OR January 2015

- Presentation: Hernandez (2015) *Efficacy of Intrepid Edge for the Control of Codling Moth in Walnuts*

**Research presenter**, Orchard Pest and Disease Management Conference, Portland, OR January 2014

- Presentation: Hernandez (2014) *Walnut Husk Fly Trap Type and Lure Evaluations*

**Research presenter**, Orchard Pest and Disease Management Conference, Portland, OR January 2014

- Presentation: Hernandez (2014) *Insecticide Evaluations for Control of Codling Moth in Walnut*

## RECENT PUBLICATIONS

R.A. Van Steenwyk, A.M. Hernandez, R.A. Poliakon, B.J. Wong (2016) "Control of Peach Twig Borer in Almonds". *Arthropod Management Tests*, 41.

R.A. Van Steenwyk, R.A. Poliakon, A.M. Hernandez, B.J. Wong (2016) "Control of Codling Moth in Walnuts". *Arthropod Management Tests*, 41.

R.A. Van Steenwyk, R.A. Poliakon, P.S. Verdegaal, B.J. Wong, A.M. Hernandez (2016) "Control of Vine Mealybug in Wine Grapes". *Arthropod Management Tests*, 41.

R.A. Van Steenwyk, W.W. Coates, R.A. Poliakon, B.J. Wong, A.M. Hernandez (2016) "Insecticidal Control of Walnut Husk Fly in Walnuts". *Arthropod Management Tests*, 41.

R.A. Van Steenwyk, C.R. Wise, R.A. Poliakon, B.J. Wong, A.M. Hernandez, J.K. Hasey (2016) "Control of Walnut Scale in Walnuts". *Arthropod Management Tests*, 41.

R.A. Van Steenwyk, A.M. Hernandez, R.A. Poliakon, B.J. Wong (2016) "Control of Walnut Aphid in Walnut". *Arthropod Management Tests*, 41.

R.A. Van Steenwyk, C.R. Wise, A.M. Hernandez, R. Poliakon (2015) "Control of Peach Twig Borer in Almonds". *Arthropod Management Tests*, 40.

R.A. Van Steenwyk, A.M. Hernandez, R. Poliakon, A.L. Taylor (2015) "Control of Codling Moth with Intrepid Edge in Walnuts". *Arthropod Management Tests*, 40.