

Kristen R. Hladun

University of California – Riverside
Department of Entomology
900 University Ave.
Riverside, CA 92521
lab (951) 827-4297
cell (617) 869-1254
email: kristen.hladun@ucr.edu

Education

University of California – Riverside, 2012

Ph.D. in Entomology
Advisor: John Trumble
Major: Insect-Plant Interactions
Minors: Ecology and Ecotoxicology

Dissertation topic: Selenium accumulation in Brassicaceae plant species and its biotransfer to insect pollinators

University of Massachusetts – Amherst, 2007

Master of Science in Plant Biology
Advisor: Lynn Adler

Thesis: Effects of perimeter trap crop pollen, herbivory and pollination on reproduction and plant performance in *Cucurbita moschata*

Boston University, 1999

Bachelor of Arts in Biology
Advisor: Fred Wasserman

Research interests: *Insect-plant interactions, pollination ecology, applied insect ecology*

Peer-Reviewed Publications

*denotes undergraduate coauthor.

Hladun, K.R., Kaftanoglu, O., Parker, D.R., Tran K.D.* and J.T. Trumble. (2013) Effects of the contaminant selenium on survival, development and accumulation in the honey bee (*Apis mellifera* L.). Environmental Toxicology and Chemistry 32(11). DOI: 10.1002/etc.2357

Hladun, K.R., Parker, D.R., Tran, K.D.* and J.T. Trumble. (2013) Effects of selenium accumulation on phytotoxicity, herbivory, and pollination ecology in radish (*Raphanus sativus* L.). Environmental Pollution 172: 70-75.

Hladun K.R., Smith B.H., Mustard J.A., Morton R.R.* and J.T. Trumble. (2012) Selenium toxicity to honey bee (*Apis mellifera* L.) pollinators: Effects on behaviors and survival. PLoS One 7: 1-10.

Hladun, K.R., Parker, D.R. and J.T. Trumble. (2011) Selenium accumulation in the floral tissues of two Brassicaceae species and its impact on floral traits and plant performance. Environmental and Experimental Botany **74**: 90-97.

Hladun, K.R. and L.S. Adler. (2009) Influence of leaf herbivory, root herbivory and pollination on plant performance in *Cucurbita moschata*. Ecological Entomology **34**: 144-152.

Hladun, K.R. and L.S. Adler. (2008) Effects of perimeter trap crop pollen on crop reproduction in butternut squash (*Cucurbita moschata*). HortScience **43**: 276-279.

Boyle, T.H. and Hladun, K.R. (2005) Influence of seed size, testa color, scarification method, and immersion in cool or hot water on germination of *Baptisia australis* (L.) R. Br. seeds. HortScience **40**: 1846-1849.

Grants, Fellowships and Awards

2012 Earle C. Anthony Graduate Student Travel Award
2009 - 2012 EPA Science to Achieve Results Fellowship
2011 1st Place Winner in the Student Competition for the President's Prize (oral presentation). Entomological Society of America Annual Meeting. Reno, NV
2011 1st Place Winner PhD Student Poster Presentation. Entomological Society of America Pacific Branch Meeting. Waikoloa, HI
2008 - 2010 University of California Toxic Substances Research and Teaching Program Fellowship
2009 UC-Riverside Graduate Dean's Dissertation Research Grant
2007 ESA Plant Population Ecology Student Travel Award
2005 – 2006 Dr. Constantine J. Gilgut Fellowship
2005 Albert L. Delisle Scholarship Fund and Richard J. & Florence F. Davis Botany Fund – Research Grant

Teaching Experience

Courses Assistant Taught:

2008 Natural History of Insects (ENTM 010) UC - Riverside
2005 Plant Geography (BIO 526) UMass - Amherst
2004 Plant Ecology (BIO 421) UMass - Amherst

Employment

Current: University of California – Riverside, since 2012
Postdoctoral Entomologist, Department of Entomology

University of California – Riverside, 2007 - 2012
Graduate Student Researcher, Department of Entomology

University of California – Riverside, 2008
Teaching Assistant, Department of Entomology

- As a teaching assistant for the course Natural History of Insects (ENTM 010), my duties included preparing and instructing discussion sections as well as grading.

University of Massachusetts – Amherst, 2006 - 2007
Graduate Research Assistant, Department of Plant, Soil, and Insect Sciences

- As a graduate research assistant and lab manager in the Adler lab, my duties included supervising undergraduate students, alkaloid extractions and analysis of *Gelsemium* plant tissues, as well as fruit, seed, and pollen data collection of *Cucurbita*.

University of Massachusetts – Amherst, 2005 - 2006
Graduate research assistant and Gilgut Fellow, Department of Plant, Soil, and Insect Sciences

- As a graduate research assistant, my duties included conducting field thesis research during the summer of 2005.

University of Massachusetts - Amherst, 2004 –2005 Amherst, MA
Graduate teaching assistant, Department of Biology

- As a teaching assistant in the upper level courses Plant Ecology (BIO 421) and Plant Geography (BIO 526), my duties included instructing lab sections and leading class discussions.

Massachusetts General Hospital, 2002 –2004 Boston, MA
Research technician, Department of Molecular Biology

- As a research technician in the Ausubel Lab, I worked on mapping and cloning enhanced disease susceptibility mutants in *Arabidopsis thaliana* using the pathogens *Pseudomonas syringae* and *Fusarium oxysporum*.

Cereon Genomics, 2000 –2002 Cambridge, MA
Research assistant II, Plant Biology Division

- As a research assistant II within the greenhouse facility, I was involved with the high-throughput cultivation of *Arabidopsis thaliana* for mapping, metabolic profiling, and screening projects.

Professional Service

Reviewer for: Applied Soil Ecology, Entomologia Experimentalis et Applicata, Environmental and Experimental Botany, Environmental Entomology, Journal of Economic Entomology, Journal of Insect Science, New Phytologist, Plant Science, Torrey Botanical Society

Co-organizer for:

- 2013 PI-E Section Symposium: Beyond the LC50: Advancements in toxicological research on pollinators. 61st Annual Meeting of Entomological Society of America. Austin, TX.
- 2013 Symposium: What's the Buzz? Challenges to pollinator conservation in agriculture and beyond. 97th Annual Meeting of the Pacific Branch Entomological Society of America. Lake Tahoe, NV.

Poster and Paper Presentations

- Nov 2013 Hladun, K.R. and J.T. Trumble. Paper presentation in Symposium: Beyond the LC50: Advancements in toxicological research on pollinators (co-organizer). From *in vitro* to field: Examining the toxic effects of soil-borne pollutants on honey bees. 61st Annual Meeting of Entomological Society of America. Austin, TX.
- Aug 2013 Hladun, K.R. and J.T. Trumble. Poster presentation. Using larval *in vitro* bioassays to determine the toxicity of various forms of pollutants on *Apis mellifera* (Hymenoptera: Apidae). International Conference on Pollinator Biology, Health and Policy. State College, PA.
- April 2013 Hladun, K.R. Paper presentation in Symposium: What's the Buzz? Challenges to Pollinator Conservation in Agriculture and Beyond (co-organizer). Introduction to pollinator conservation in the western U.S. 97th Annual Meeting of the Pacific Branch Entomological Society of America. Lake Tahoe, NV.
- April 2013 Hladun, K.R. and J.T. Trumble. Poster presentation. Pollutant effects on learning, larval development, and whole colony fitness in the honey bee (*Apis mellifera* L.). 97th Annual Meeting of the Pacific Branch Entomological Society of America. Lake Tahoe, NV.
- August 2012 Hladun, K.R. and J.T. Trumble. Effects of a plant-accumulated pollutant on the gustatory behaviors, survival and pollination ecology of the honeybee (*Apis mellifera* L.). 24th International Congress of Entomology. Daegu, Korea.
- March 2012 Hladun, K.R. and J.T. Trumble. Invited Paper Presentation in Student Symposium: Fifty years since Silent Spring. Pollinators in the toxic landscape: Bees as bioindicators and bioaccumulators of pollutants. 96th Entomological Society of America Pacific Branch Meeting. Portland, OR.
- Nov 2011 Hladun, K.R. and J.T. Trumble. Paper presentation. Pollination ecology in a selenium-accumulating plant: Impacts on visitation and survival of the

- honey bee. 59th Annual Meeting of the Entomological Society of America. Reno, NV.
- Aug 2011 Hladun, K.R., Mustard, J.A., Smith, B.H. and J.T. Trumble. Paper presentation. Effects of the pollutant selenium on the foraging behaviors and survival of the honey bee (*Apis mellifera* L.). 14th Symposium on Insect Plant Interactions. Wageningen, The Netherlands.
- March 2011 Hladun, K.R., Morton, R.R. and J.T. Trumble. Poster presentation. Poster title: "Selenium's impact on the Pollination ecology, Learning and survival of *Apis mellifera* (Hymenoptera: Apidae)". Entomological Society of America Pacific Branch Meeting. Waikoloa, HI.
- Dec 2010 Hladun, K.R., B.H. Smith, J.A. Mustard and J.T. Trumble. Paper presentation. Paper title: "Effects of a plant-accumulated pollutant on the foraging behaviors of *Apis mellifera* (Hymenoptera: Apidae)". Entomological Society of America Annual Meeting. San Diego, CA.
- July 2010 Hladun, K.R., B.H. Smith, J.A. Mustard and J.T. Trumble. Poster presentation. Poster title: "Effects of the pollutant selenate on the gustatory and foraging behaviors of the honey bee (*Apis mellifera*): Implications for plant-pollinator interactions". International Conference on Pollinator Biology, Health and Policy. State College, PA.
- Aug 2009 Hladun, K.R. and J.T. Trumble. Paper Presentation. Paper title: "Selenium accumulation in the floral tissues of two Brassicaceae plant species: Implications for plant-pollinator interactions". Ecological Society of America Annual Meeting. Albuquerque, NM.
- May 2009 Hladun, K.R. and J.T. Trumble. Invited Poster Presentation for UC-TSR&TP Fellows. Poster Title: "Selenium Accumulation in Floral Tissues of Two Phytoremediating Brassicaceae Plant Species: Implications for Biotransfer to Insect Pollinators". University of California Toxic Substances Research and Teaching Program Annual Research Symposium. Berkeley, CA.
- Aug 2008 Hladun, K.R. and J.T. Trumble. Poster Presentation. Poster Title: "Selenium Accumulation in Floral Tissues of *Brassica juncea*: Implications for Pollination Ecology". Ecological Society of America Annual Meeting. Milwaukee, WI.
- Dec 2007 Hladun, K.R. and L.S. Adler. Poster Presentation. Entomological Society of America Annual Meeting. San Diego, CA.
- Aug 2007 Hladun, K.R. and L.S. Adler. Invited Paper Presentation in Organized Oral Session 24: Soil biota alteration of aboveground plant interactions.

Ecological Society of America/Society for Ecological Restoration Joint Annual Meeting. San Jose, CA.

- Nov 2006 Hladun, K.R. Invited Paper Presentation. Plant Biology Fall 2006 Research Seminar. University of Massachusetts – Amherst.
- Oct 2006 Hladun, K.R. and L.S. Adler. Poster Presentation. Annual Symposium in Plant Biology, University of Massachusetts – Amherst.
- Mar 2006 Hladun, K.R. Invited Paper Presentation for Gilgut Fellows. Annual Plant Biology Colloquium, University of Massachusetts-Amherst.
- Oct 2005 Hladun, K.R. and L.S. Adler. Poster Presentation. Annual Symposium in Plant Biology, University of Massachusetts-Amherst.
- July 2005 Research Presentation. Crop and Animal Research and Education Center Field Day, University of Massachusetts South Deerfield Research Farm.

Memberships

Ecological Society of America Plant Population Ecology Section since 2005
Entomological Society of America, Pacific Branch, since 2007
Society of Environmental Toxicology and Chemistry since 2010
California Native Plant Society since 2010

Updated 2.12.14