

## CURRICULUM VITAE

### Annika S. Nelson

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#### EDUCATION

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2015-present Ph.D., Ecology & Evolutionary Biology, University of California, Irvine,  
Advisor: Dr. Kailen Mooney  
2011-2015 B.A., Biology, Oberlin College, Oberlin, Ohio

#### Additional Studies:

Summer 2014 Western State Colorado University, Gunnison, Colorado  
Summer 2013 Texas A&M University, College Station, Texas  
2009-2011 Texas Woman's University, Denton, Texas

#### PUBLICATIONS

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2. Nelson, A.S., T. Scott, M. Barczyk, T.P. McGlynn, A. Avalos, E. Clifton, A. Das, A. Figueiredo, L. Figueroa, M. Janowiecki, S. Pahlke, J.D. Rana, and S. O'Donnell. 2017. Day/night upper thermal limits differ within *Ectatomma ruidum* ant colonies. *Insectes Sociaux* DOI 10.1007/s00040-017-0585-4
1. Mooney, E.H., J.S. Phillips, C.V. Tillberg, C. Sandrow, A.S. Nelson, and K.A. Mooney. 2016. Abiotic mediation of a mutualism drives herbivore abundance. *Ecology Letters* 19: 37-44.

#### GRANTS & FELLOWSHIPS (total = \$216,005)

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2016-19	\$138,000	Graduate Research Fellowship, National Science Foundation
2017	\$500	Travel Award, Department of Ecology & Evolutionary Biology, University of California, Irvine – to attend the 2017 Ecological Society of America Annual Meeting
2017	\$800	Graduate Student Fellowship, Colorado Mountain Club Foundation
2017	\$870	Graduate Student Fellowship, Rocky Mountain Biological Laboratory
2017	\$700	Scholarship to attend the Biology of Neotropical Social Insects Course, Organization for Tropical Studies
2017	\$500	Travel Award, Department of Ecology & Evolutionary Biology, University of California, Irvine – to attend the Biology of Neotropical Social Insects Course at the Organization for Tropical Studies
2016	\$660	Graduate Student Fellowship, Rocky Mountain Biological Laboratory
2015	\$15,000	Francisco J. Ayala Graduate Fellowship, School of Biological Sciences, University of California, Irvine – for academically superior doctoral students exhibiting outstanding promise as scientists, researchers, and public leaders
2015	\$1,600	Returning Student Fellowship, Krakauer Endowment, Rocky Mountain Biological Laboratory
2015	\$325	Leo S. Millar Memorial Prize, Biology Department, Oberlin College – for academic excellence and future promise in the field of biological

		sciences
2014	\$250	Scholarship for Undergraduate Research, Rocky Mountain Biological Laboratory
2014	\$2,500	Scholarship in Zoology, Biology Department, Oberlin College – for undergraduate research at a field station
2013	\$5,800	Research Experience for Undergraduates (REU), National Science Foundation – for summer research in the Department of Entomology, Texas A&M University
2011-15	\$48,000	John F. Oberlin Scholarship
2011	\$500	Erik Anthony Shelton Scholarship

### ACADEMIC AWARDS

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2015 Election to Phi Beta Kappa, Oberlin College

### RESEARCH POSITIONS

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2016-17 Graduate Student Researcher, Rocky Mountain Biological Laboratory, Advisor: Dr. Kailen Mooney. Community context of ant-aphid protection mutualisms.

2015 Research Assistant, Rocky Mountain Biological Laboratory, Advisor: Dr. Kailen Mooney. Elevational variation in ant-aphid protection mutualism.

2014 Undergraduate Researcher, Summer Education Program for Undergraduates, Rocky Mountain Biological Laboratory, Advisor: Dr. Kailen Mooney. Light dependency of an ant-aphid protection mutualism.

2014-15 Research Assistant, Department of Biology, Oberlin College, Advisor: Dr. Mary Garvin. West Nile virus disease ecology.

2013 Research Assistant, Department of Biology, Oberlin College, Advisor: Dr. Christopher Anderson. Damsely evolutionary biology and disease ecology.

2013 Undergraduate Researcher, NSF REU-EXCITE, Department of Entomology, Texas A&M University, Advisor: Dr. Micky Eubanks. Ant-plant protection mutualisms.

2013 Intern, B.B. Harris Botanical Collection, Elm Fork Natural Heritage Museum, University of North Texas, Advisor: Dr. James Kennedy. Cataloged plant specimens.

2010 Research Assistant, Department of Biology, University of North Texas, Advisor: Dr. James Kennedy. Stream ecology.

### PROFESSIONAL PRESENTATIONS

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#### Talks:

**Nelson, A.S.**, C.T. Symanski, M.J. Hecking, and K.A. Mooney. 2017. Elevational cline in herbivore abundance driven by altered protection mutualism with ants. Ecological Society of America, August 6-11, Portland, Oregon, USA.

C.S. Nell, Meza-Lopez, M.M., J.R. Croy, **A.S. Nelson**, A. Katsanis, J.D. Pratt, and K.A. Mooney. 2017. Plant genotypic variation and sex influence *Baccharis salicifolia* trait variation and plastic response to precipitation. Ecological Society of America, August 6-11, Portland, Oregon, USA.

**Nelson, A.S.**, C.T. Symanski, M.J. Hecking, and K.A. Mooney. 2017. Elevational cline in herbivore abundance driven by altered protection mutualism with ants. Graduate Student

- Seminar Series, Rocky Mountain Biological Laboratory, Gothic, Colorado, USA.
- Nelson, A.S.**, C.T. Symanski, M.J. Hecking, and K.A. Mooney. 2017. Elevational cline in herbivore abundance driven by altered protection mutualism with ants. Biology of Neotropical Social Insects Course, Organization for Tropical Studies, Costa Rica.
- Nelson, A.S.** and K.A. Mooney. 2015. The effects of light on ant-aphid mutualisms. Senior Symposium, Oberlin College, Oberlin, Ohio, USA.
- E.H. Mooney, J.S. Phillips, C.V. Tillberg, C. Sandrow, **A.S. Nelson**, and K.A. Mooney. 2014. Abiotic and multitrophic determinants of geographic distribution in an herbivorous insect. Ecological Society of America, August 10-15, Sacramento, California, USA.
- Nelson, A.S.** and K.A. Mooney. 2014. The effects of light intensity on ant-aphid mutualisms on osha (*Ligusticum porteri*). Symposium for Undergraduate Research, Rocky Mountain Biological Laboratory, Gothic, Colorado, USA.
- Nelson, A.S.** and M.D. Eubanks. 2013. The effects of *Chamaecrista fasciculata* extrafloral nectar production on the distribution of ants, spiders, and herbivores. Entomology REU-EXCITE Research Symposium, Texas A&M University, College Station, Texas, USA.

**Posters:**

- Nelson, A.S.**, G. Radulski, C. Hoffman. 2013. 45-acre forest sequesters carbon at an increasing rate, offsetting a small percentage of annual campus carbon emissions. Systems Ecology Poster Symposium, Oberlin College, Oberlin, Ohio, USA.
- Nelson, A.S.** and M.D. Eubanks. 2013. The effects of *Chamaecrista fasciculata* extrafloral nectar production on the distribution of ants, spiders, and herbivores. Summer Undergraduate Research Poster Symposium, Texas A&M University, College Station, Texas, USA.

**TEACHING & TUTORING**

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**Independent teaching & curriculum development:**

- “Making Observations” workshop, Summer Education Program for Undergraduates, Rocky Mountain Biological Laboratory, Summer 2017 – presented field workshop to undergraduates
- “Feces: A Cultural and Scientific Excursion,” Oberlin Experimental College, Spring 2015 – Co-designed and co-taught semester-long course, examining the profound ways in which human excrement impacts our environment and society, by altering climates, spreading diseases, and shaping cultural norms

**Teaching assistantships:**

- Global Sustainability, UC Irvine, Spring 2016 – graded papers for an upper-level undergraduate writing course, under the direction of Dr. Jessica Pratt
- Organisms to Ecosystems, UC Irvine, Winter 2016 – organized and led introductory-level discussion sections, under the direction of Dr. Robin Bush
- Field Biology, UC Irvine, Fall 2015 – organized and led senior-level field labs and advised and graded independent projects, under the direction of Dr. Kailen Mooney and Dr. Kathleen Treseder
- Organismal Biology Laboratory, Oberlin College, 2013-2015 – introductory-level laboratory, under the direction of Jane Bennett
- Genetics, Evolution, and Ecology Laboratory, Oberlin College, Fall 2012 – introductory-level laboratory, under the direction of Jane Bennett

**Tutoring:**

- Writing Tutor, NSF GRFP Proposal Writing Workshop, School of Biological Sciences, 2016 & 2017 – graduate students

Quantitative Skills Tutor, Drop-In Center for Learning, Education, and Research in the Sciences, Oberlin College, 2014-2015  
Science and Math Tutor, Guyer High School, Denton, Texas, 2014 – 9 high school students  
Biology Tutor, Oberlin College, 2013 – 3 undergraduate students  
Chemistry Tutor, Oberlin College, 2013 – 2 undergraduate students  
Discrete Math Tutor, Oberlin College, 2012 – 1 undergraduate student

## **STUDENT MENTORING & OUTREACH**

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### **Undergraduate mentoring:**

Rocky Mountain Biological Laboratory: 1 undergraduate student

### **K-12 education:**

Exam Writer and Event Supervisor, Science Olympiad regional academic competition, 2016-2017 – Ecology and “Dynamic Planet” oceanography categories, middle and high school levels  
Volunteer Scientist, “Ask-A-Scientist Night,” Rancho San Joaquin Middle School, 2016 – advised students on science fair projects  
Presenter, Climate, Literacy, Empowerment, and Inquiry (CLEAN) Education Organization, UC Irvine, 2016 – taught local middle school students about renewable energy  
Presenter, NSF REU-EXCITE program, Texas A&M University, 2013 – discussed entomology research with eighth grade students  
Junior Teaching Assistant, Elm Fork Environmental Education Center, University of North Texas, 2006-2010 – environmental education camps for children (ages 7-13), including X-Stream Adventure; Creative Science; Homes, Habits, and Habitats; Critter Camp; Astro-Kid Academy; Suburban Safari; Just Beneath the Surface; Chem-2-Kids  
Volunteer, Kids Nature Camp, Rocky Mountain Biological Laboratory, 2009 – environmental education camps for children (ages 4-8), including Fantastic Fossils and Magnificent Marmots

## **ACADEMIC, SCIENTIFIC, & COMMUNITY CITIZENSHIP**

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### **Peer Referee:**

Ecology and Evolution

### **Rocky Mountain Biological Laboratory:**

Seminar Assistant, 2017 and 2018  
Panel Member, “Graduate School in Ecology” Discussion, 2016 and 2017  
Hike Leader, Student Orientation Hike, 2017  
Volunteer, “Open House” Event, 2016 – discussed research with the general public  
Participant, “Meet the Scientists” Event, 2014 – discussed research with the general public

### **University of California, Irvine:**

Committee Member, “What can I do with my PhD?” Jobs Symposium Committee, Department of Ecology and Evolutionary Biology, 2017-2018  
Committee Member, Graduate Student Recruitment Committee, Department of Ecology and Evolutionary Biology, 2016-2017  
Panel Member, “Tacos with TAs” event, 2016 – provided information to undergraduates about how to apply to graduate school  
Panel Member, REU Information Session, 2015 - provided information to undergraduates about applying to and participating in NSF-REU programs

**Community Service:**

Certified Trail Guide, Irvine Ranch Conservancy, 2016-2018  
 Volunteer, Cloud Forest School, Monteverde, Costa Rica, 2012 – assisted with gardening, building maintenance, and construction while living with a host family

**Professional Society Membership:**

Ecological Society of America, since 2016  
 Evolutionary Demography Society, since 2017  
 American Alpine Club, since 2016  
 Orange County Chapter of the Society for Conservation Biology, 2016

**ADVANCED COURSEWORK & TRAINING**

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2017	Biology of Neotropical Social Insects Course, Organization for Tropical Studies, at La Selva and Las Cruces Biological Stations in Costa Rica
2016	Mentoring Excellence Certificate, Graduate Professional Success Program, UC Irvine Graduate Division
2016	Data Science Initiative Workshops, UC Irvine – Introduction to Linux and High Performance Computing, Introduction to R, Advanced Topics in R
2016	Seminar in Ecology and Evolutionary Biology Education, UC Irvine – ten-week graduate seminar, designed a course syllabus
2016	Graduate Certificate, Public Speaking: Activate to Captivate, UC Irvine Graduate Division
2016	Certificate, CPR, AED, and Adult and Child First Aid, Irvine Ranch Conservancy – EMS Safety Services
2016	Certificate, Wilderness First Aid course, UC Irvine – the American Safety and Health Institute
2015	Quantitative Methods in Ecology & Evolutionary Biology, UC Irvine – ten-week graduate course
2015	Genetics of Populations, Oberlin College – undergraduate course, research project modeling the population dynamics of aphid colonies in response to mutualist ants
2014	Disease Ecology, Oberlin College – undergraduate course, group research project investigating the distribution of mosquitoes in woodlands and urban areas
2014	Methods in Field Ecology, Rocky Mountain Biological Laboratory – undergraduate course
2013	Systems Ecology, Oberlin College – undergraduate course, group research project quantifying carbon sequestration in a college-owned forest, provided groundwork for further research projects and carbon offset policy decisions at Oberlin College

**EXTRACURRICULAR ACTIVITIES**

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Fall 2015	Hydrology to Outreach Club, UC Irvine
August 31, 2013	Site Leader, Oberlin College Day of Service
2012-13	Storm Water Management Project, Oberlin College
Spring 2012	Mathematics through History, Oberlin Experimental College
Spring 2012	College of Arts and Sciences Orchestra, Oberlin Experimental College
2011-12	Animal Rights Club, Oberlin College
Fall 2011	Ecology Mindfulness and Meditation, Oberlin Experimental College