

CURRICULUM VITAE

Annika S. Nelson

Department of Ecology and Evolutionary Biology
321 Steinhaus Hall
University of California, Irvine
Irvine, CA 92697

Cell: (940) 368-9081

Email: annikasn@uci.edu

Website: <http://annikanelson.weebly.com/>

EDUCATION

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 (first author n = 2)

3. **Nelson, A.S.**, C.T. Symanski, M.J. Hecking, and K.A. Mooney. *In review*. Elevational cline in herbivore abundance driven by altered protection mutualism with ants. *Ecology*.
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. Day/night thermal tolerances differ within *Ectatomma ruidum* ant colonies. *In revision*. *Insectes Sociaux*.
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 = \$278,070)

2016-19	\$138,000	Graduate Research Fellowship, National Science Foundation
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	\$62,562	Doctoral Graduate Merit Fellowship, Department of Entomology, Texas A&M University (<i>award declined</i>)
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

2015 Election to Phi Beta Kappa, Oberlin College

RESEARCH POSITIONS

- 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. Damselfly 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

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. 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

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 – 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

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

Rocky Mountain Biological Laboratory:

Seminar Assistant, 2017

Hike Leader, Student Orientation Hike, 2017

Panel Member, “Graduate School in Ecology” Discussion, 2016

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, Non-R1 Jobs Speaker Series 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

Orange County Chapter of the Society for Conservation Biology, since 2016

American Alpine Club, since 2016

ADVANCED COURSEWORK & TRAINING

- 2017 Biology of Neotropical Social Insects Course, Organization for Tropical Studies
- 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

- | | |
|-----------------|--|
| 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 |