

RACHEL OLSSON

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EDUCATION

Washington State University, Pullman, WA

PhD candidate in Entomology

2015-Present

Dissertation: Landscape effects on pollinator health and colony growth rates

GPA: 3.82. Qualifying exam: Passed Feb. 17, 2017

The Evergreen State College, Olympia, WA

B.S. in Agricultural Sciences, B.A. in Community Development 2014

AWARDS AND HONORS

USDA Predoctoral Fellowship 2017 (\$95,000)

2017

Travel Award, Entomological Society of America (\$300)

2017

Western SARE Graduate Grant (\$24,870)

2015 – 2017

Honorable Mention, NSF Graduate Research Fellowship Program

2016

Honorable Mention, NSF Graduate Research Fellowship Program

2015

Donald Hastings Entomology Scholarship (\$600)

2015

Travel Award, Entomological Society of America (\$300)

2014

TEACHING EXPERIENCE

Mentor- Wyatt Mattingly

2018-present

Wyatt is working on characterizing the non-bee pollinators of canola in the eastern Washington region

Teaching Assistant – to Professor David Crowder in “Stats 511: Statistics and Experimental Design”

2017

Collaborated on lab tutorials and assignments, met with students upon request. Assisted students and wrote script for statistical analyses using the R language.

Washington State University

Intern Mentor: Lucille Eggleston

2017

Oversaw undergraduate research “Pollinator functional traits across urbanized landscapes”

Teaching Assistant – to Professor David Crowder in “Entom 590: Statistics and Experimental Design”

2016

Collaborated on lab tutorials and assignments, met with students upon request. Assisted students and wrote script for statistical analyses using the R language.

Co-Presenter with Elias Bloom for Native Pollinator Field Days **2015-2017**

Collaborated on curriculum development, presented one third of all material for three public field days per year.

Teaching Assistant – to Professor Jeb Owen in “Entom 102: Insects, Infection, and Illness.” **2016**

Developed and taught all lab assignments, graded all coursework including exams.

Intern Mentor: Konnor Flemming **2015**

Oversaw undergraduate research “Assessing functional characteristics of bumble bees of western Washington.”

Teaching Assistant – to Professor Jeb Owen in “Agriculture and Food Systems 101” **2015**

Collaborated on curriculum development, wrote half of all exams, and graded all course work including final exams and final projects.

Athletics Tutor: Entomology 101 **2015****Teaching Assistant- to Elias Bloom in “CSI: Bees!”** **2015**

Assisted in content delivery for six Seattle based citizen science workshops

The Evergreen State College
Lab instructor in “Ecological Agriculture.” **2013**

Prepared lectures, lab assignment, and identification instruction for lab “Assessing the ground beetle populations on The Evergreen State College Campus.”

PROFESSIONAL MEMBERSHIPS

Northwest Scientific Association

Entomological Society of America

Student Liaison for Education and Outreach committee, 2013- present

Entomology Graduate Student Association, WSU

Elected officer, Events and Outreach Coordinator, 2015-2017. Faculty Liaison, 2017- present.

EXTRACURRICULAR ACTIVITIES

Volunteer, The Trevor Project	present
Active skater, board member, Palouse River Rollers Roller Derby League	2015- 2018
Active skater, Rolling Hills Derby Dames	present
Director of Public Relations, Journal of Young Investigators	2014-2015

PUBLICATIONS AND PAPERS

- Bloom, E.H., Olsson, R.L., Wine, E., Schaeffer, R., Crowder, D.W. "An Introduction to Cavity Nesting Bees in the Puget Sound Region." WSU Extension*
Peer Reviewed (FS293E) **2017**
- Bloom, E.H., Olsson, R.L., Crowder, D.W. "A Citizen Science Guide to Wild Bees and Floral Visitors in Western Washington." WSU Extension*
Peer Reviewed (*Home Garden Series, EM110E*) **2017**
- "Environmental stresses and their effect on pollen and nectar quality."* **2017**
Paper presented in the graduate student competition at the national meeting of the Entomological Society of America, Denver, CO
- "Is City Life Affecting Your Diet? A study of bumble bee lipid content across urbanized landscapes."*
Paper presented in the graduate student competition at the Pacific Branch meeting of the Entomological Society of America, Portland, OR **2017**
- "Landscape Use and Bee Health."*
Paper presented in the graduate student competition at the International Congress on Entomology, Orlando, FL **2016**
- "Characterizing Pollinator Health in the Pacific Northwest."*
Research proposal seminar, presented for the WSU Entomology Colloquium seminar series, Pullman, WA **2016**
- "Research on Wild Pollinators."*
Invited talk for University of Idaho Pollination Seminar, Moscow, ID **2015**
- "What's Your Favorite Food? Floral preferences of honey bees and bumble bees in western Washington."*
Paper presented in the graduate student competition at the national meeting of the Entomological Society of America, Minneapolis, MO. **2015**
- "Characterizing Pollinator Health in the Pacific Northwest."*
Research proposal pursuant to doctoral degree. Advisor: Dr. David Crowder. Pullman, WA. **2015**

“Ground Beetle Populations in Western Washington Prairies and Garry Oak Stands.”

Poster presented at the Pacific Branch meeting of the Entomological Society and the annual meeting of the Northwest Scientific Association **2014, 2015**

“Populations of Ground Beetles in Organic versus GMHT Corn Fields in the Pacific Northwest.”

Term paper fulfilling writing requirement of independent research and writing component of B.Sc. **2013**

“Exploring Relationships of Garden Symphylan (Scutigera immaculata) populations to Potato Cultivation in Organic Systems: A laboratory based investigation.”

Term paper fulfilling writing requirement of independent research and writing component of B.Sc.

2012