

Aaron Anderson
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Education

PhD Student in Horticulture. 4.00 GPA
Expected graduation: 2020
Oregon State University, Corvallis, OR
Advisor: Dr. Gail Langellotto

B.S. Biological Sciences. 3.01 GPA
2007-2011
Cornell University, Ithaca, NY
Concentration: Ecology and Evolution

Graduate Certificate, Geographic Information Sciences
Oregon State University, Corvallis, OR
Expected completion: Spring 2020

Professional Experience

Graduate Research Assistant

2016-

Oregon State University, Corvallis, OR

- Manage and conduct field study screening 23 native Willamette Valley Wildflowers for their attractiveness to pollinators, natural enemies, and pests.
- Plant, seed, and maintain three acres of research plots.
- Perform timed pollinator observations, sample insect communities, identify specimens, and analyze data.
- Use GIS software to lead landscape-level analyses in other ecology studies in Dr. Gail Langellotto's lab.

Research Associate

2014-2016

Colorado State University, Fort Collins, CO

- Responsible for constructing a database of biological control agents released on insect pests in the United States. Funded by the USDA-APHIS.
- Independently research the importation, release, and fate of biocontrol agents nationwide through literature searches and interviews. Consolidate this information into a database for analysis and deployment as an online tool.
- Aided a pollinator survey in eastern Colorado, trapping and netting pollinators to determine how land use affects native bee diversity.

Ecological Restoration Assistant

2013-2014

Golden Gate National Parks Conservancy, San Francisco, CA

- Performed habitat restoration through manual and chemical weed control, native plantings, and seed collection. Familiar with Trimble GPS use in the field.
- Monitored threatened and endangered species.
- Analyzed data, prepared technical reports, created maps and tracked work progress with ESRI ArcMap.
- Led volunteer restoration and education programs of up to 100 attendees.

Karner Blue Butterfly Site Steward

2012

Student Conservation Association/NY State Parks, Saratoga Springs, NY

- Performed Karner blue butterfly habitat restoration, vegetation monitoring, butterfly surveys, invasive management, report preparation, and public outreach.

- Mapped habitat boundaries with a Trimble GPS Unit.
- Coordinated and orchestrated a three-day, 30 person service project.

2010-2011

Research Assistant

Cornell University, Ithaca, NY

- Assistant in Dr. Ann Hajek's entomology lab. Performed field work, lab work, and data analysis for experimental studies on biocontrol of the Asian Longhorned Beetle (ALB) through use of entomopathogenic fungi.
- Performed an independent study on the behavior of the ALB when exposed to the fungus *Metarhizium brunneum* and chemical attractant lures
- Member of a team researching a biocontrol method for *Sirex noctilio*, an invasive wasp. Performed mating, rearing, and flight tunnel experiments.

Awards

Gilman C. Keasey Memorial Fellowship, Oregon State University, 2019-2020

Montane M. Freeman Scholarship in Native Plant Studies, Garden Club of America, 2019

Leighton Ho Memorial Field Botany Award, Native Plant Society of Oregon, 2019

ARCO-Swallow Fellowship, Oregon State University, 2016-2017

Charlotte and Willis Duruz Scholarship, Oregon State University, 2017-2018

Dean's List, Cornell University (Fall 2008, Spring 2011)

Academic Presentations

Invited Oral

Anderson AG, 2019. International Urban Wildlife Conference (Portland, OR)

Anderson AG, Screening native PNW wildflowers for attractiveness to pollinators and natural enemies, 2018. Urban Ecosystem Research Consortium of Portland Lunch and Learn Talk (Portland, OR)

Anderson AG, Constructing a database of biocontrol agents of insect pests – progress, challenges, and future directions, 2015. Special USDA-CPHST Seminar (Fort Collins, CO)

Submitted Oral

Anderson AG, Influence of water availability on native wildflower phenology and pollinator attractiveness. Urban Ecology and Conservation Symposium, 2018 (Portland, OR)

Anderson AG, Costner L, Langellotto GA. Screening native PNW wildflowers for attractiveness to pollinators and natural enemies. Urban Ecology and Conservation Symposium, 2018 (Portland, OR)

Anderson AG, Norton AP, Ode PJ. Are we getting better at this? An examination of biocontrol establishment and success rates through time, 2014. Entomology Society of America Annual Meeting (Portland, OR).

Anderson AG, Norton AP, Ode PJ . An assessment of US insect biological control introductions from 1979-2009: results from the USD-ARS ROBO database, 2014. Western Regional Committee W3185 Annual Meeting (Kauai, HI).

Anderson AG. Chemical Ecology Meets Biological Control of the ALB, 2011. Undergraduate Research Forum of the Jugatae Seminar Series (Ithaca, NY).

Submitted Posters

Anderson AG, Nelson M, Langellotto GA. Which native plants should home gardeners grow for pollinators? 2020. Urban Ecology and Conservation Symposium (Portland, OR).

Anderson, AG, Langellotto, GA. Investigating the attractiveness of native wildflowers to pollinators and natural enemies. 2019. International Pollinator Conference (Davis, CA)

Anderson AG, Langellotto, GA, Which native plants should home gardeners grow for pollinators? 2019. Pacific Northwest Pollinator Summit and Conference (Corvallis, OR).

Anderson AG, Nelson M, Langellotto GA, An analysis of bee communities in home and community gardens, 2017. Urban Ecology and Conservation Symposium (Portland, OR).

Publications

Academic (Peer Reviewed)

Langellotto, GA., Melathopoulos, A., Messer, I, **Anderson, AG**, McClintock, N., & Costner, L. Garden pollinators and the potential for ecosystem service flow to urban and peri-urban agriculture. *Sustainability*, 10(6), 2047. 2018

Outreach (Peer Reviewed)

Anderson AG, Blue-Eyed Grass in the landscape. Native Plants for the Intermountain West. University of Wyoming Extension, 2018.
http://www.wyoextension.org/westernnativeplants/plantlist_view.php?id=93&name=sisyrrinchiumidahoense

Anderson AG, Globe Gilia in the landscape. Native Plants for the Intermountain West. University of Wyoming Extension, 2018.
http://www.wyoextension.org/westernnativeplants/plantlist_view.php?id=92&name=giliacapitata

Anderson AG, Pearly Everlasting in the landscape. Native Plants for the Intermountain West. University of Wyoming Extension, 2018.

http://www.wyoextension.org/westernnativeplants/plantlist_view.php?id=91&name=anaphalismargaritacea

Outreach (Non-Peer Reviewed)

Anderson, AG. Opportunities and Barriers to Native Plant Production and Sales in the Willamette Valley. *Digger Magazine*, April 2019.

Anderson, AG. Opportunities and Barriers Gardening with Native Plants. *Hardy Plant Society of Oregon Quarterly*, Spring 2019.

Langellotto GA, Nelson M, **Anderson AG**, We study gardens: An update from OSU's Garden Ecology Lab. *Digger Magazine*, February 2018.

Anderson AG. Eat Me – Farming with an army of natural, hungry enemies to control pests, 2017. *In Good Tilt*, Spring 2017.

Anderson AG, Crooker C., 2013 Mission Blue Butterfly Survey Report, Oakwood Valley, 2014 Golden Gate National Parks Conservancy.

Extension and Outreach

Presentations

Anderson, AGm Associations between pollinators and native plants in the Willamette Valley. Portland Urban Beekeepers meeting, 2019. (Portland, OR)

Anderson AG, Which Native Plants Are Best in Your Garden For Oregon Bees? PolliNation Podcast, Oregon State University, 2019 (Podcast)

Anderson AG, Market opportunities and challenges for Oregon's native plant producers. OSU Department of Horticulture Spring Seminar Series, 2018 (Corvallis, OR)

Anderson AG, Gardening with native plants. Oregon Master Gardener Association Growing Gardeners Conference, 2018 (McMinnville, OR)

Anderson AG, Willamette Valley native plants and their pollinators. Native Plant Society of Oregon, Corvallis Chapter, 2018 (Corvallis, OR)

Trainings

Anderson AG, OSU research on gardening with native plants in the Pacific Northwest garden. OSU Extension Service Master Gardener Advanced Training Webinars, 2018 (Online)

Anderson AG, Gardening with native plants. OSU Extension Service Master Gardener Training Marion County, 2018 (Salem, OR)

Teaching

Anderson AG, “On-Farm Entomology”, guest lecture to Linn Benton Community College HORT 262 (Advanced Practice Local Food Production), 2018 (Albany, OR).

Other Outreach Events

Planting for Pollinators Tour, Luckiamute Watershed Council, 2019 (Independence, OR) – 30 attendees

Summer Open House, OSU North Willamette Research and Extension Center, 2019 (Aurora, OR) – 200 attendees

Summer Open House, OSU North Willamette Research and Extension Center, 2018 (Aurora, OR) – 200 attendees

Field Tour, Beneficial Insect Working Group (Clackamas County Soil and Water Conservation District, 2018 (Aurora, OR) – 10 attendees

Science Night, Periwinkle Elementary School, 2017 (Albany, OR) – 500 families

Online Outreach

Contributor, Life in the City urban ecology blog, 2019 – (four blog articles)

Personal Site – www.pollinatorblog.weebly.com

Science Twitter - [@wiltedartichoke](https://twitter.com/wiltedartichoke)

Service

Peer Reviewer, *Urban Ecosystems* (2018-2019)

Organizer, OSU Dept. of Horticulture Spring Seminar Series, 2018 (Corvallis, OR)

Oral Presentation Moderator, 22nd Front Range Student Ecology Symposium, Colorado State University, 2015 (Fort Collins, CO)

Professional Membership

Entomological Society of America, Society for Ecological Restoration

Skills

Extensive Experience: R, ESRI ArcPro, ESRI ArcMap, Microsoft Suite

Some Experience: Python, ENVI