

# AMY EHRHART

[AEHRHART@PDX.EDU](mailto:AEHRHART@PDX.EDU) | [WWW.AMYEHRHART.COM](http://WWW.AMYEHRHART.COM) | @AMYLEHRHART

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## EDUCATION

- Ph.D. Candidate, Earth, Environment and Society, GPA: 3.9** **Sept. 2015-Present**  
Portland State University (PSU), Expected graduation September 2020  
**Certificate of Innovation in College Teaching, Office of Academic Innovation, Expected completion August 2020**
- B.S., Biology, Emphasis in Zoology, GPA: 3.9** **Aug. 2011**  
Southern Utah University (SUU)
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## AWARDS

- Outstanding Graduate Teaching Assistant Award, PSU** **June 2019**  
Annual faculty-awarded honor to a graduate student who demonstrated excellence in teaching in the Environmental Science and Management Department.
- Outstanding Departmental Service Graduate Award, PSU** **June 2017, 2018 & 2019**  
Annual faculty-awarded honor to a graduate student who contributed outstanding service to the Environmental Science and Management Department.
- Outstanding Student in Biology, SUU** **Spring 2011**  
Faculty-awarded honor to the top graduating senior in Biology. Award based on GPA, research experience, service, and promise in the discipline.
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## TEACHING EXPERIENCE

- Graduate Teaching Assistant, PSU** **Sept. 2015-June 2016, Sept. 2017-July 2020**  
*Courses:* Intro to Environmental Systems Lab, Applied Environmental Science Lab, Environmental Policy and Regulations, Oceans and Society (non-major course), Urban Ecology, Environmental Data Analysis (graduate level course), Multivariate Data Analysis (graduate level course)  
*Duties:* Facilitate lab courses, assist professors with curriculum development, supervise independent student projects, grade assignments
- Lead Graduate Assistant, PSU Office of Academic Innovation** **Sept. 2019-May 2020**  
*Duties:* Provide support and leadership to graduate teaching assistants. Complete leadership projects and assist with logistics and facilitation of professional development mini-conferences at PSU.
- Invited Guest Lecturer, PSU** **Feb. 2017**  
*Course:* **Advanced Science Communication (graduate level)**  
*Lecture Title:* Story Art for Science Communication
- Education Presenter, Loveland Living Planet Aquarium** **Aug. 2011-Aug. 2012, Sept. 2008-Aug.2009**  
*Duties:* Presented education programs to Kindergarten -12<sup>th</sup> grade students, developed new educational programs and improved program delivery with education team.
- Undergraduate Teaching Assistant, SUU** **Aug. 2010-May 2011**  
*Courses:* General Biology II Lab, Ecology Lab

*Duties:* Assisted the professor with lab equipment setup and facilitation, supervised student semester projects, and graded lab reports and quizzes.

## SCHOLARSHIPS AND GRANTS

Sigma Xi Grants in Aid of Research Scholarship [\$1,000]	Winter 2020
Ed and Olive Bushby Scholarship, PSU [\$7,960]	Spring & Fall 2017, Spring 2018, Winter 2019
Information Needs Assessment for Coastal and Marine Management and Policy Graduate Research Assistantship [\$15,000]	Fall 2016-Spring 2017
National Science Foundation-Integrative Graduate Education and Research Traineeship (IGERT), Travel Funds, PSU [\$1,000]	Fall 2016
Laurels Graduate Award Tuition Remission, PSU [\$7,500/yr]	Fall 2016-Spring 2019
Dean's Lottery Scholarship, PSU [\$5,000/yr]	Fall 2015-Spring 2017
National Science Foundation-Integrative Graduate Education and Research Traineeship (IGERT), Research Funding, PSU [\$9,000]	Fall 2015-Spring 2017
Undergraduate Research and Scholarship Program, SUU [\$500]	Fall 2010
Academic Scholarship, SUU [\$3,500/yr]	Fall 2009-Spring 2011

## RESEARCH EXPERIENCE

### **Effects of coastal WWTP effluent on Pacific oyster health and survival**

**May-Sept. 2018**

*Investigators:* Amy Ehrhart and Dr. Elise Granek

*Project Description:* Exposed oysters to dilutions of wastewater treatment plant effluent for 12 weeks and measured growth, oyster condition, and feeding rate.

*Duties:* Experimental design, data collection and analysis, manuscript preparation

### **Pharmacist and pharmacy customer knowledge of leftover pharmaceutical disposal practices**

**Dec. 2017-Mar. 2018**

*Investigators:* Amy Ehrhart, Dorothy Horn, Dr. Elise Granek, Dr. Max Nielsen-Pincus

*Project Description:* Conducted surveys and interviews with pharmacy customers, pharmacists, and other medical professionals about leftover pharmaceutical disposal practices.

*Duties:* Data collection and analysis, manuscript preparation (manuscript under review)

### **Development of the Oregon Coastal and Oceans Information Network (OCOIN)**

**Sept. 2015-Dec. 2018**

*Investigators:* Amy Ehrhart and Dr. Elise Granek

*Project description:* Established a long-term collaborative policy-science network to promote the use of scientific data in decision making in Oregon.

*Duties:* Workshop planning and facilitation, website content writing (click [here](#) to view website)

### **Pharmaceuticals and alkylphenols in transplanted Pacific oysters (*Crassostrea gigas*)**

**July 2016-July 2017**

*Investigators:* Amy Ehrhart (PI) and Dr. Elise Granek

*Project description:* Oysters were transplanted to areas in close proximity to wastewater sources to assess contaminant accumulation and effects on oyster health metrics.

*Duties:* Experimental design, oyster collection and transport, data collection and analysis, manuscript preparation (manuscript in preparation)

**Comparing the production of nematocysts in starved and well-fed Glass anemones (*Aiptasia pallida*)  
Jan.-Aug. 2011**

*Investigators:* Amy Ehrhart (PI), Veronica Garcia, Dr. Santiago Perez, Dr. Betsy Bancroft

*Project description:* Quantified the number of nematocysts produced per mg of protein in sea anemone tentacles using Bradford protein assay and a hemocytometer

*Duties:* Daily care and maintenance of animals, experimental design, data collection and analysis

**Effects of density and hydroperiod on Spring Peeper tadpoles (*Pseudacris crucifer*)  
Sept.-Dec. 2010**

*Investigators:* Kristin Beauchamp (PI), Katrina Slaubaugh, Amy Ehrhart, Dr. Betsy Bancroft

*Project description:* Measured growth and time to metamorphosis under two water levels and four density treatments

*Duties:* Animal care, maintenance of experimental conditions, data collection

PROFESSIONAL SERVICE

**Officer, Association of Environmental Science Students (AESS), PSU** July 2016-June 2019

*Duties:* Organize and facilitate student events, such as the annual student research colloquium, alumni job panel, and graduate student information session.

**AESS Seminar Co-Leader, PSU** July 2016-June 2018

*Duties:* Organize, facilitate and promote the Association of Environmental Science Students weekly seminar. Recruit and introduce speakers within and outside the department.

**Teaching Assistant Mentor, PSU** Sept. 2016-June 2017

*Duties:* Provide materials, instruction and support to teaching assistants for introductory environmental science labs.

**Student Representative, Oregon Coastal and Oceans Information Network (OCOIN) Steering Committee** Jan. 2018-Dec. 2018

*Duties:* Participate in quarterly meetings to plan long-term sustainability of collaborative policy-science network.

**Grant Proposal Co-Reviewer, Maryland Sea Grant, 2017 Coastal Resilience and Sustainability Research Fellowship** May 2017

*Duties:* Provided anonymous review of research proposal submitted to Maryland Sea Grant.

LEADERSHIP AND MENTORING

**Undergraduate Student Research Supervision, PSU** Spring/Summer 2017 & 2018

*Duties:* Supervised undergraduate students in the field and the lab while conducting my dissertation research.

**High School Student Mentor, PSU** June 2016-Aug. 2016

*Duties:* Supervised a high school intern in participation with the Saturday Academy Apprenticeships in Science and Engineering.

**Field Trips Manager, Loveland Living Planet Aquarium****Aug. 2012-Aug. 2015**

*Duties:* Managed, trained, provided support and facilitated monthly collaborative meetings for the School Programs Education Team and coordinated ongoing projects with other departments, including Guest Services, Animal Husbandry and Marketing.

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**POSTERS AND PRESENTATIONS**

**Ehrhart, AL & Granek EF.** *Pharmaceuticals and alkylphenols in transplanted Pacific oysters in OR and WA.*

Oral presentations:

Pacific Northwest Chapter of the Society for Ecological Toxicology and Chemistry, Vancouver, Washington, April 2019

Western Society of Naturalists, Tacoma, Washington, November 2018 & November 2016

Ocean Sciences Meeting, Portland, Oregon, February 2018

Poster Presentations:

Oregon State of the Coast Conference Meeting, Florence, Oregon, October 2017

Ecological Society of America, Portland, OR, August 2017

Association of Environmental Science Students Joint Campus Environmental Research Colloquium, Portland, OR, May 2016

**Ehrhart, AL, Horn, D, Granek EF, and Nielsen-Pincus, M.** *Addressing improper disposal of leftover pharmaceuticals with dropbox implementation: environmental and public health perspectives.*

Oral Presentations:

Environmental Science and Management Department Seminar, Portland, OR, May 2019

Poster presentations:

Oregon State of the Coast Conference, Lincoln City, OR, November 2019

Oregon Conference on Opioids, Eugene, Oregon, May 2018

Association of Environmental Science Students Environmental Research Colloquium, Portland, OR, May 2018.

**Ehrhart, AL, Granek, EF, & Oliver, S.** *Coastal Ecosystem Services Collaboration Session.* Oral presentation at Oregon State of the Coast Conference, Meeting, Gleneden Beach, Oregon, October 2016

Garcia VJ (presenter), **Ehrhart AL, Mclean C, Bancroft BA.** *Comparing the production of nematocysts in starved and well-fed anemones (Aiptasia pallida).* Poster Presentation at Ecological Society of America 97<sup>th</sup> Annual Meeting, Portland, OR, August 2012

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**KNOWLEDGE AND SKILLS****Professional Skills**

- Stakeholder engagement
- Workshop planning and facilitation
- Project management
- Grant writing
- Budget and time management
- Public speaking
- Verbal/written communication
- Science communication
- Academic and professional writing
- Organizational skills

**Research Skills**

- Coastal field work
- Sample collection and transport
- Water quality testing,
- Aquarium tank set up and care
- Lab safety
- Experimental design
- Univariate/multivariate data analysis
- Literature review

- Survey/ interview design and distribution
- Report/publication preparation

### Software

- R/R Studio
- Microsoft Office Suite
- ArcGIS
- Zotero

## PROFESSIONAL DEVELOPMENT AND TRAINING

### Graduate Student Mini-Conferences, PSU Office of Academic Innovation

Interdisciplinary Connections [5 hours]	Jan. 2020
Teaching Innovations: Transitions and Transformations in Higher Education [8 hours]	Oct. 2019
Innovating for a Brighter Tomorrow [8 hours]	May 2019
Building Community in the 21 <sup>st</sup> Century [8 hours]	Jan. 2019
Wellness in your Professional Life [8 hours]	Sept. 2018
Professionalizing for Academia and Beyond [8 hours]	May 2018
Preparing Future Faculty [8 hours]	Feb. 2018

### Relevant Coursework

Reproducible Data Analysis in R [1 credit]	Spring 2019
Professional Development for PSU Teaching Assistants [1 credit]	Spring 2018
Univariate/Multivariate Data Analysis in R [4 credits]	Winter 2017
Introduction to GIS, PSU Geography [4 credits]	Winter 2017
Science Communication/Advanced Science Communication [2 credits]	Fall 2015/Winter 2016

### Workshops

Speed Interviewing: Practice Your Interview Skills [2 hours]	May 2019
Writing a Teaching Philosophy, PSU Office of Academic Innovation [2 hours]	Dec. 2018
Telling your Professional Story in Multiple Contexts, PSU Institute for Sustainable Solutions [2 hours]	Jan. 2018

## MEDIA COVERAGE

[KOED Science Newscast](#) Feb. 2018  
 Title: *From Drugged Oysters to Birds Full of Plastic, Oceans Are Feeling the Burden of Pollution*

[COSMOS Science Magazine](#) Feb. 2018  
 Title: *Drugs and plastics threatening ocean and human health*