

## ALLISON N. CRAMER

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### EDUCATION

*Washington State University – Pullman, WA*

**Doctorate in Environmental and Natural Resource Science** **2015 – Present**

Dissertation: “Ecological implications of large scale marine fish movement patterns: individual variation impacts process and management”

*California State University – Monterey Bay, Seaside, CA*

**M.S. in Applied Marine and Watershed Science** **2011 – 2015**

Thesis: “Marine Fish Site Fidelity: Broad Scale Patterns across Species and Geographies”

*University of Oregon – Eugene, OR*

**B.A. Honors in Biology** **2005 – 2010**

Emphasis in Ecology & Evolution, Marine Biology

Minor: French

Honors Thesis: “The Role of Beaver (*Castor canadensis*) in Salmon Management: A Literature Review and Test of Method”

*Université catholique de l’Ouest – Angers, France*

**French Coursework towards Minor** **2007**

### PUBLICATIONS, PAPERS, AND PRESENTATIONS

*“Sixgill Shark (*Hexanchus griseus*) distribution in relation to temperature and salinity: first steps in marine habitat suitability modeling using passive acoustic telemetry data”*

Cramer et al. Presentation. ESA Annual Meeting. **2017**

*“Ecological effects of bottom trawling on the structural attributes of fish habitat in unconsolidated sediments along the central California outer continental shelf”*

Lindholm et al. Fishery Bulletin 113:82-96 **2015**

*“South Coast Marine Protected Areas baseline characterization and monitoring of mid-depth rocky and soft-bottom ecosystems.”*

Lindholm et al. Final Report to CA Sea Grant #R/MPA-261 **2015**

*“Distribution and abundance of selected corals and sponges in the Channel Islands National Marine Sanctuary as determined from ROV video imagery.”*

Lindholm et al. #NCND6022-12-02931. **2013**

*“What does it mean to be a home body? Large scale patterns in marine fish site fidelity”*

Cramer et al. Presentation. Western Society of Naturalists **2014**

### INVITED TALKS

*“Deep Data: Modeling Shark Movements”*

Presentation. CIRC Seminar Series. **2018**  
Washington State University

*“One fish, two fish: marine ecology and remote sensing for ocean conservation.”*

Presentation to the Water Club, **2017**  
Washington State University

*“Coding in the Tidyverse – Dplyr and TidyR”*

Presentation to the Department of Entomology, **2017**  
Washington State University

## AWARDS

Robert Lane Fellowship in Environmental Sciences **2017**

## RESEARCH EXPERIENCE

*Katz Lab, Washington State University, Pullman WA*

**Graduate Research Assistant – Washington State University** **2015 – Present**

Investigated ecological implications and evolutionary constraints of fish movements using datamining and informatics.

*Institute for Applied Marine Ecology, CSU Monterey Bay, Seaside, CA*

**Research Assistant – MPA Monitoring Enterprise: South Coast** **2012 – 2014**

Sampled video imagery to collect community assemblage data on rockfish and key invertebrates. Contributed to final report.

**Research Lead – Channel Islands NMS Corals Survey** **2013**

Developed and executed sampling protocol to survey large corals and sponges from ROV video imagery. Managed and mentored undergraduate researcher in project execution. Created final report on coral communities for the sanctuary.

**Research Assistant – Stellwagen Bank NMS**

**Seafloor Habitat Recovery Monitoring Program** **2013**

Analyzed community assemblage data using multivariate and simple regression techniques to determine influence of habitat and community type on recovery from disturbance. Compiled final report.

**Research Assistant – MPA Monitoring Enterprise: North Coast** **2012**

Sampled video imagery to collect community assemblage data on rockfish and key invertebrates. Contributed to final report

*Oregon Institute of Marine Biology & South Slough National Estuarine Research Reserve*

**Undergraduate Independent Researcher** **2008 – 2010**

Assisted with multiple research projects, from bioluminescent bacteria collecting, to sea urchins categorizing, to sea bird colony monitoring. Designed and executed independent research project investigating an estuarine beaver colony.

## TEACHING EXPERIENCE

*School of the Environment, Washington State University, Pullman, WA*

**Teaching Assistant – to Prof. Steve Katz in “Oceanography”** 2015 – 2017

Assisted in teaching, graded quizzes, exams, and papers.

*California State University Monterey Bay, Seaside, CA*

**Teaching Assistant – to Prof. James Lindholm in “Advanced Marine Science & Policy”** 2013, 2014

Assisted in teaching, graded quizzes, exams, and papers.

**Teaching Assistant – to Prof. James Lindholm in “Science Diving”** 2013, 2014

Assisted in teaching, graded quizzes, exams, and papers.

**Teaching Assistant – To Prof. James Lindholm in  
“Science, Management, & Policy in the Marine Environment”** 2013, 2014

Assisted in teaching, graded quizzes, exams, and papers.

**Teaching Assistant – to Prof. James Lindholm in “Marine Fish Ecology”** 2013, 2014

Assisted in teaching, graded quizzes, exams, and papers.

**Teaching Assistant – to Prof. Gerick Bergsma in “Ecology 320”** 2011

Assisted in teaching, graded quizzes, exams, and papers. Developed final exam and final project.  
Administered grades.

*Oregon Institute of Marine Biology, Univ. of Oregon, Eugene, OR*

**Teaching Assistant – to Prof. Jan Hodder and Prof. Doug Warrick  
in “Marine Birds and Mammals”** 2010

Assisted in teaching, graded quizzes, exams, and papers. Provided transport for students and maintained equipment.

**Teaching Assistant – in “Coastal Biology”** 2011

Assisted in teaching, graded quizzes, exams, and papers.

**Teaching Assistant – to Prof. Chuck Wimpee in “Marine Symbiosis”** 2010

Assisted in teaching, graded quizzes, exams, and papers. Provided transport for students and maintained equipment.

**Teaching Assistant – to Prof. Chuck Wimpee in  
“Bioluminescence in the Marine Environment”** 2009

Assisted in teaching, graded quizzes, exams, and papers. Provided transport for students and maintained equipment.

**Teaching Assistant – in “Microbes of Coastal Environments”** 2009

Assisted in teaching, graded quizzes, exams, and papers. Provided transport for students and maintained equipment.

**Teaching Assistant – to Prof. Lee Braithwaite in “Biological Illustration”** 2009, 2010

Assisted in teaching, graded quizzes, exams, and papers. Provided transport for students and maintained equipment.

## ADDITIONAL EXPERIENCE

R Working Group, Washington State University

**Lead educator**

**2016 – Present**

Founded, facilitated, and presented in university wide, cross departmental working group focused on applying R statistical. Created research focused community of R users spanning graduate students, post docs, and faculty. Scheduled speakers and topics relevant to user interests.

Sustainability & the Environment Committee, Washington State University

**Graduate Student Representative**

**2015 – 2016**

Coordinated with multi-departmental and facilities representatives to dispense funds for student lead projects related to sustainability and environmental initiatives.

Monterey Area Research Institutions' Network for Education

**Social Media Intern**

**2012 – 2014**

Developed cross platform media strategy to communicate with graduate students from seven different marine focused research institutions. Created online community of current and past students using Facebook, Twitter, and LinkedIn.

Undergraduate Research Opportunities Center, California State University Monterey Bay

**Graduate Mentor**

**2012 – 2014**

Mentored undergraduate researchers in working on ongoing research projects as well as developing their own independent research.

Belegarth Medieval Combat Society – Tir na nOg, University of Oregon

**Club President and Founder**

**2007 – 2010**

Founded 80+ member student organization. Wrote constitution and bylaws in accordance to university policy. Obtained over \$3,800 in funds for club equipment. Successfully passed on leadership of club to successive students through developing solid structure and community.

## LANGUAGES

English – Native Language

French – speak fluently, read/write with high school proficiency

## SKILLS AND CERTIFICATIONS

### *Certifications*

AAUS Science Diver

First Aid/CPR

ESRI Geographic Information Systems

### *Additional Skills*

R statistical

Unix HPC computing

HootSuite

## MEMBERSHIPS

Ecological Society of America

Monterey Area Research Institutions' Network for Education

National Society of Collegiate Scholars

Oregon Marine Student Association

University of Oregon Presidential Scholars

Girl Scouts of America

## CO-CORRICULAR ACTIVITIES

Volunteer, Monterey Bay Aquarium 2012-2013

Belegarth Medieval Combat Society 2002-2017

Volunteer Diver, ReefCheck 2012-2014

Mind the Gap a cappella 2008-2010

Elementary Basketball Coach 2009

Cottage Grove Community Theater 2009