

ALLISON N. CRAMER

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EDUCATION

Washington State University – Pullman, WA

Ph.D. in Environmental and Natural Resource Science **2015 – 2020**

Dissertation: *"Problems in Data Synthesis: Towards a Dynamic Understanding of Marine Habitat Use"*

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

Cramer, Alli N., Stephen L. Katz. *In press.* "Primary Production and Habitat Stability Organize Marine Communities." *Global Ecology and Biogeography*.

Labou, Stephanie G., Michael F. Meyer, Matthew Brousil, **Alli N. Cramer**, Brad T. Luff. 2020. "Global Lake Area, Climate, and Population (GLCP) Dataset." Data product. Environmental Data Initiative.

Meyer, Michael F., Stephanie G. Labou, **Alli N. Cramer**, Mathew Brousil, Brad T. Luff. 2020. "Global Lake Area, Climate, and Population (GLCP) Dataset". Scientific Data.

Alli N. Cramer. 2020. "Scientists and the Art of Critique: Why We Should Train Scientists like Artists." *Limnology & Oceanography Bulletin*.

Farrell, Kaitlin J., **Alli N. Cramer**, Kelly L. Hondula, Seth K. Thompson, Jacob A. Zwart. 2019. "Support of Early-Career Researchers Supports the Future of ASLO." *Limnology & Oceanography Bulletin*.

Lindholm, James, Mary Gleason, Donna Kline, Larissa Clary, Steve Rienecke, **Alli Cramer**, Marc Los Huertos. 2015. "Ecological effects of bottom trawling on the structural attributes of fish habitat in unconsolidated sediments along the central California outer continental shelf." *Fishery Bulletin* 113:82-96.

Lindholm, James, Ashley Knight, Flower Moye, **Alli N. Cramer**, Joshua Smith, Heather Bolton, Michael Esgro, Sarah Finstad, Rhiannon McCollough, Molly Fredle, Dirk Rosen, Andy Laueremann. 2015. "South

Coast Marine Protected Areas baseline characterization and monitoring of mid-depth rocky and soft-bottom ecosystems." Final Report to CA Sea Grant #R/MPA-261.

Lindholm, James, **Alli N. Cramer**, Aimee M. Braddock. 2013. *"Distribution and abundance of selected corals and sponges in the Channel Islands National Marine Sanctuary as determined from ROV video imagery."* Final Report #NCND6022-12-02931

CONFERENCE PRESENTATIONS

"What is the site fidelity of a dead fish? And how would you prove it?"

Cramer, Alli N., Steve Katz.

Poster Presentation. Ocean Sciences. **2020**

"Quantifying changes in global lake surface area of 20 years (1995-2015) in relation to climate and human population"

Cramer, Alli N. Michael F. Meyer, Stephanie G. Labou.

Oral Presentation. AGU Fall Meeting. **2018**

"Fostering cross-disciplinary research relationships through a common analytic language"

Cramer, Alli N.

Poster Presentation. AGU Fall Meeting. **2018**

"Using simulated random walks to improve our understanding of marine animal movements"

Cramer, Alli N. Steve Katz.

Poster Presentation. CIRC Research Comp. Sym. **2018**

*"Big Sharks in the Salish Sea: Combining passive acoustics with the Salish Sea model to predict Sixgill Shark (*Hexanchus griseus*) presence"*

Cramer, Alli N., Steve Katz, Kelly Andrews, Daniel H. Thornton.

Oral Presentation. Salish Sea Eco. Conference. **2018**

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

Cramer, Alli N., Steve Katz, Kelly Andrews, Daniel H. Thornton.

Oral Presentation. ESA Annual Meeting. **2017**

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

Cramer, Alli N., James Lindholm, Rick Starr.

Oral Presentation. Western Soc. of Naturalists. **2014**

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

Cramer, Alli N., James Lindholm, Aimee M. Braddock, Steve Katz.

Oral Presentation. Western Soc. of Naturalists. **2013**

SEMINAR PRESENTATIONS

"Running R and Python on an HPC"

Presentation and workshop facilitator

2018

CEREO and CIRC, Washington State University

"Deep Data: Modeling Shark Movements"

Presentation. CIRC Seminar Series. Washington State University	2018
<i>“One fish, two fish: marine ecology and remote sensing for ocean conservation.”</i> Presentation to the Water Club, Washington State University	2017
<i>“Coding in the Tidyverse – Dplyr and TidyR”</i> Presentation to the Department of Entomology. Washington State University	2017

AWARDS AND WORKSHOPS

Research Coordinated Network for Evolution in Changing Seas	2019
Francis Rush Bradley Excellence Fund	2019
Ecological Dissertations in the Aquatic Sciences XII (EcoDAS)	2018
Robert Lane Fellowship in Environmental Sciences	2017
San Diego Super Computer Summer Institute	2017

RESEARCH EXPERIENCE

Katz Lab, Washington State University, Pullman WA

Graduate Research Assistant – Washington State University **2015 – 2020**
Investigated limitations and application of technology in marine ecology, focused on ecological implications and evolutionary constraints of fish movements using data mining and informatics.

Center for Sustaining Agriculture and Natural Resources, Washington State University, Pullman WA

Graduate Research Assistant – Washington State University **2017 – 2018**
Refined, streamlined, and supplemented interactive climate change and agriculture web application. Reformatted data structure and algorithms in R Statistical.

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. Assisted with ROV deployment and equipment maintenance in the field. Contributed to final report.

Research Lead – Channel Islands NMS Corals Survey **2013**
Developed sampling protocol to survey large corals and sponges from ROV video imagery. Managed and mentored undergraduate researcher in project execution. Authored final report for the sanctuary.

Science Diving, CSU Monterey Bay, Seaside, CA

Diving Assistant – Native Crab predation on Invasive Tunicate **2013**
Safety diver and data collection assistant for season long monitoring project of invasive tunicate.

Diving Assistant – Science Diving Course **2012 – 2014**
Instructed students on sampling techniques and field methods. Monitored students learning diving skills.

ADDITIONAL EXPERIENCE

R Working Group, Washington State University

Founder and Lead Educator

2016 – 2018

Founded, facilitated, and presented in multi-institution, cross departmental working group focused on applying R statistical. Connected research community of R users spanning graduate students, postdocs, and faculty. Selected speakers and topics relevant to user interests. cereowsu.edu/r-working-group/. The working group continues to support the local R community after transferring to new leadership.

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 (MARINE)

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 using Facebook, Twitter, and LinkedIn.

SELECTED TEACHING EXPERIENCE

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

Teaching Assistant. "Oceanography"

2015 – 2019

Designed writing assignments and exams, guest lectured. Assisted in teaching and grading. 7 semesters.

California State University Monterey Bay, Seaside, CA

Teaching Assistant. "Advanced Marine Science & Policy"

2013, 2014

Assisted in teaching, graded quizzes, exams, and papers. 2 semesters.

Teaching Assistant. "Marine Fish Ecology"

2013, 2014

Assisted in teaching, graded quizzes, exams, and papers. 2 semester.

Teaching Assistant. "Ecology 320"

2011

Designed final project and exam. Sole instructor for latter half of class. Administered grades. 1 semester.

SKILLS AND CERTIFICATIONS

Certifications

AAUS Science Diver

First Aid/CPR

ESRI Geographic Information Systems

Analytical and Programming Experience

R statistical

Python

Stella

Google Earth Engine

High Performance Computing

LANGUAGES

English – Native Language

French – Speak fluently, read and write

MEMBERSHIPS

Association for the Sciences of Limnology
and Oceanography

Ecological Society of America

American Geophysical Union

National Society of Collegiate Scholars

Oregon Marine Student Association

University of Oregon Presidential Scholars

Girl Scouts of America

REFERENCES

Dr. Steve Katz

School of the Environment
Washington State University
steve.katz@wsu.edu

Dr. Stephanie Hampton

School of the Environment
Washington State University
s.hampton@wsu.edu

Dr. Joanna Kelley

School of Biological Sciences
Washington State University
joanna.l.kelley@wsu.edu