

CHEYENNE JARMAN
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EDUCATION

Oregon State University Expected Spring, 2025
Ph.D. Integrative Biology
Advisor: Mark Novak, Ph.D.

University of California, Santa Cruz
Bachelor of Science, Marine Biology *cum laude* June 2020
Bachelor of Arts, Computer Science June 2020

RESEARCH EXPERIENCE

Contractor **June 2020 – October 2021**

US Geological Services

Principal Investigator: Josh Adams

- Developed materials to aid in a machine learning approach for species identification of aerial surveys.
- Designed and implemented a decision tree to assist in the training dataset for the machine learning algorithm.
- Developed R scripts to assist in various data wrangling projects.

Undergraduate Researcher, Carr Lab **September 2018 – June 2020**

Department of Ecology and Evolutionary Biology

University of California, Santa Cruz

Principal Investigator: Dr. Mark Carr; Graduate Student Mentor: Josh Smith

Senior thesis: *Prey quality, predator preference, and nonrandom diets: the interacting effects of mesopredator preference and prey condition*

- Investigated the impact of mesopredators on ecosystem structure and function, including the role of predation as a mechanism of resilience.
- Evaluated kelp forest predators' preferences based on prey condition (i.e, gonad condition) of sea urchins.

Undergraduate Researcher, Caselle Lab **June 2019 – August 2019**

Marine Science Institute

University of California, Santa Barbara

Principal Investigator: Dr. Jenn Caselle

- Surveyed kelp forest ecosystems in the Channel Island National Marine Sanctuary as part of the Partnership for Interdisciplinary Studies of Coastal Oceans (PISCO).
- Collected and deployed Standard Monitoring Unit for the Recruitment of Fishes (SMURFs) to catalog the types and quantities of juvenile fish settling into different areas of kelp forests.

Undergraduate Researcher, Carr Lab **September 2017 – August 2018**

Department of Ecology and Evolutionary Biology

University of California, Santa Cruz

Principal Investigator: Dr. Mark Carr; Graduate Student Mentor: Josh Smith

- Investigated ecosystem resiliency through comprehensive surveys of kelp forests and sea urchin barrens along the Monterey Peninsula, California.
- Evaluated sea urchin barren-kelp forest patch dynamics using subtidal transect and photo-quadrat sampling techniques.
- Examined sea urchin diet preference relative to algal availability through data collected from field sampling, paired with sea urchin gut content dissections in the laboratory.

SCIENCE COMMUNICATION

Oral Presentations:

- **Jarman CN**, Smith JG, Carr MH. (2019). *Dietary Preference of Meso-Predators in the Wake of an Herbivore Outbreak*. **Western Society of Naturalists**. Ensenada, Mexico. Nov. 2019

Poster Presentations:

- **Jarman CN**, Smith JG, Carr MH. (2019). *Dietary Preference of Meso-Predators in the Wake of an Herbivore Outbreak*. **Koret Foundation Research Symposium**. University of California, Santa Cruz. June 2019.
- **Jarman CN**, Smith JG, Carr MH. (2018). *A visual approach to sea urchin diet characterization* **Western Society of Naturalists**. Tacoma, WA. Nov. 2018.
- **Jarman CN**, Smith JG, Carr MH. (2018). *A quantitative approach to urchin gut content analysis* **STEM Diversity Summer Research Symposium**. Santa Cruz, CA. Aug. 2018.
- **Jarman CN**, Smith JG, Carr MH. (2018). *Visualizing kelp forest species interactions* **Broadening Participation in Visualization**. Indianapolis, Indiana. June 2018.

Interdisciplinary Projects:

- **Ocean of Influence**, Research Consultant & Collaborator. Los Angeles, CA. June 2019.
An immersive art installation educating community members of the anthropogenic pollution impacting our oceans.

SERVICE, OUTREACH, AND PROFESSIONAL DEVELOPMENT

Mentorship Alliance Co-Founder

June 2020 – Present

Oregon State University, University of California, Santa Cruz, Cal State Monterey Bay, and University of Hawai'i at Mānoa

- Co-developed workshop materials to assist undergraduate and graduate students in crafting a successful fellowship application
- Lead virtual workshops for the UCSC STEM Diversity Programs, the UCSC Genomics Institute, and the CSUMB Undergrad Research Opportunities Center
- Currently working to expand workshop series into an open-source mini course and implement this framework at other universities
- Collaborated with UCSC Writing Center to design and facilitate workshop and certificate program on mentoring for high stakes writing

FieldSafe collaborator

September 2020 – Present

Oregon State University

- Developing an initiative to eliminate sexual harassment and violence for field biologists

- Collaborating with the Survivor Advocacy and Resource Center office to develop a field based bystander training

Marine Science Club Founder and Co-President

April 2019 – June 2020

University of California, Santa Cruz

- Establishing a club to promote diversity, outreach, and increase student retention rates in marine science.
- Preparing undergraduate students to pursue a career in marine science by providing professional development workshops, networking events, and undergraduate research opportunities.

Women in Science Society Secretary

September 2019 – June 2020

University of California, Santa Cruz

- Creating an environment of motivation & mutual support among collegiate women pursuing their undergraduate degree in the sciences by providing networking, service and leadership opportunities for our members.
- Collaborating on the development of academic based events to strengthen students’ academic portfolios.

Curriculum Designer

September 2018 – October 2019

Seymour Marine Discovery Center, Santa Cruz, CA

- Developing interactive modules following K-12 common core curriculum guidelines.
- Collaborating with UCSC graduate students to disseminate their research to the local community.

Exhibit Guide Volunteer

September 2017 – September 2018

Seymour Marine Discovery Center, Santa Cruz, CA

- Disseminate the results of foundational and contemporary ecological research to public visitors of the Center.
- Enhance public appreciation of science and nature through interactive learning stations that engage students in hands-on learning activities.

Project AWESOME Student Co-Leader

September 2016 – January 2017

Baskin School of Engineering, University of California, Santa Cruz

- Planned and led weekly meetings that included career building workshops, networking events, and academic support sessions for undergraduate students.
- Developed a peer-to-peer mentorship program that coupled upperclassmen with underclassmen to help students navigate their academic career.

HONORS AND AWARDS

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| • Animal Behavioral Society Student Research Grant | 2022 |
| • International Women’s Fishing Association Scholarship Trust | 2022 |
| • NSF GRFP Recipient | 2021 |
| • Oregon State University Provost Scholarship | 2020 |
| • NSF GRFP Honorable Mention | 2020 |
| • Student Research and Education Award | 2018 |
| • Koret Scholar | 2018 |

- STEM Diversity IMSD Scholar 2018
- Women Diver Hall of Fame– Ella Jean Morgan Memorial Dive Training Grant 2018

MENTORING

- Onkar Litake. Sept. 2020 – Jan. 2021. Cientifico Latino
- Pedro Valencia Landa Summer 2020. UC LEADS
- Alyssa Bueno Aug. 2020 – Nov. 2020. Cientifico Latino

PEER REVIEWER

- *PeerJ*

TEACHING EXPERIENCE

Workshops Developed and Facilitate

UCSC STEM Diversity High Stakes Writing Workshop Series	June 2021 – Sept. 2021
UCSC Writing Center Mentoring for High Stakes Writing Certificate Program	June 2021 – Aug. 2021
UCSC BD2K and CSUMB UROC Broader Impacts Workshop Series	June 2020 – Aug. 2020
UCSC STEM Diversity Broader Impacts Workshop Series	June 2020 – Aug. 2020

Teaching Assistantships (Oregon State University)

BI22X series: Principles of Biology	Sept. 2020- June 2021
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CONFERENCES AND SYMPOSIA ATTENDED

- **Western Society of Naturalists (WSN).** Virtual Conference. Nov. 2021.
- **Western Society of Naturalists (WSN).** Virtual Conference. Nov. 2020.
- **Society for Advancement of Chicanos/Hispanics and Native Americans in Science (SACNAS).** Virtual Conference. Oct. 2020.
- **Northern California Computational Biology (NCCB) Student Symposium.** University of California, Santa Cruz, Santa Cruz, CA. Oct. 2017.
- **2017 RISE Symposium.** California State Polytechnic University, Pomona, Pomona CA. Aug. 2017.
- **Grace Hopper Celebration 2016.** George R. Brown Convention Center, Houston, TX. Oct. 2016.
- **Hack UCSC.** University of California, Santa Cruz, Santa Cruz, CA. Jan. 2016

SPECIAL CERTIFICATIONS

- AAUS Scientific SCUBA diver (45ft)
- First Aid, Oxygen administration, and CPR certified
- Programming Languages: R, Python, Java, C, HTML, CSS, MATLAB
 - Proficiency: C#, C++, swift
- Mobile Development: iOS and Android Studio