

Elizabeth Marina Allyn

lizallyn@uw.edu ♦ liz.allyn@makah.com ♦ lizallyn.github.io

EDUCATION

University of Washington, Seattle, WA

BS, Aquatic and Fishery Sciences
Marine Biology and Quantitative Science minors
Graduated *Cum Laude* with Honors in 2018

MSc, Aquatic and Fishery Sciences
Expected Spring 2025

CURRENT EMPLOYMENT

Graduate Student

University of Washington, Seattle, WA

- Co-PI on Washington Sea Grant research proposal titled: *Two-eyed seeing in practice: Participatory modeling to evaluate tribal pinniped hunting in Puget Sound as a tool for salmon recovery*
- Thesis research focused on evaluating tribal pinniped harvest scenarios for their impact on salmon survival through key migration bottlenecks in Puget Sound
 - Methodologies: Participatory Modeling Process, Indigenist Research Paradigm
 - Methods: multi-species dynamic models, agent-based models

Marine Mammal Technician

Makah Tribe, Neah Bay, WA

- Assist with research on marine mammals in the Makah U&A area, including survey efforts, data entry and management, and report writing
- Coordinate the Makah Marine Mammal Stranding Network by responding to stranding reports, recording relevant Level A data, and performing necropsies

Internship Coordinator

Makah Tribe, Neah Bay, WA

- Mentor 4 tribal high school students each summer through independent research projects on a topic of their choosing that informs tribal natural resource management and addresses an identified community need. Culminates in a poster and presentation.
- Teach the interns basic scientific and professional skills, including statistics, research methods, scientific writing, and public-facing science communication.
- Organize job shadowing opportunities with in-house staff and visiting researchers from universities, state and federal agencies, and NGO's.
- Acquire funding for the program through competitive grant writing

PUBLICATIONS

Allyn E M, Scordino, J J. (2020) Entanglement rates and haulout abundance trends of Steller (*Eumetopias jubatus*) and California (*Zalophus californianus*) sea lions on the north coast of Washington state. PLoS ONE.

Walsh R P, **Allyn E M**, Scordino J J. (2023) Preliminary findings: Anthropogenic and killer whale (*Orcinus orca*) scarring on Pacific Coast Feeding Group gray whales (*Eschrichtius robustus*) in northwest Washington. IWC Working Paper SC/69A/IST/03.

Acevedo-Gutiérrez A, Lewis Z K, Scordino J J, **Allyn E M**, Lance M M, Brown S, Schwarz D, Akmajian A. (2023) Diet of the harbor seal (*Phoca vitulina*) in the NW corner of the Olympic Peninsula, Washington state. Northwestern Naturalist.

Allyn E M, Scordino J J, Akmajian A. (2024) Mysid distribution, demographics, and co-occurrence with gray whales in northwest Washington state. PeerJ.

SUBMITTED:

Lewis Z K, Nelson B, Scordino J J, **Allyn E M**, Akmajian A, Schwarz D, Acevedo-Gutiérrez A, Lance M. Chinook salmon consumption by Steller sea lions along the northwest coast of Washington State. Submitted to PLoS ONE.

Walsh, R P; **Allyn, E M**; Bradford, A L; Norman, S A; Stimmelmayer, R; Scordino, J J. (2024), Anthropogenic and killer whale scar data for gray whales in northwest Washington. JCRM.

IN PREPARATION:

Lewis Z K, Akmajian A, Scordino J J, **Allyn E M**, Lance M M, Brown S, Schwarz D, Acevedo-Gutiérrez A. Describing intrapopulation feeding diversity in Steller sea lion diet along the northern Washington coast.

Allyn E M, King W, Yang S. Variations in air exposure affect desiccation of *Z. marina* gathered from different tidal zones. Submitting to PeerJ.

SELECTED PRESENTATIONS (16 total, 5 shown)

American Fisheries Society Joint Meeting of the Idaho and Washington/British Columbia Chapters. “Participatory modeling to evaluate pinniped management as a tool for salmon recovery in Puget Sound”. Spokane, WA. 2024.

Society for Marine Mammalogy, Northwest Student Chapter Annual Meeting. Using participatory modeling to evaluate harbor seal (*Phoca vitulina*) management strategies for improving salmon recovery in Puget Sound. Newport, OR. 2023

PCFG Consortium Meeting. Mysid distribution, demographics, and co-occurrence with gray whales in northwest Washington state. Newport, OR. 2022.

Clallam County Marine Resources Council. Rates and causes of entanglement in Steller and California sea lions on the north coast of Washington. Virtual, Port Angeles, WA. 2021.

Northwest Indian Fisheries Commission, Habitat Conference. Rates and causes of entanglement in Steller and California sea lions on the north coast of Washington. Shelton, WA. 2019.

GRANTS AND AWARDS

2023	BPA Tribal Education and Capacity Building Grant Program <i>To implement the Makah fisheries summer internship program in 2024</i>	(\$24,973)
2022	BIA Tribal Youth Initiative Program <i>To implement the Makah fisheries summer internship program in 2023</i>	(\$25,781)
2021	Washington Sea Grant <i>Two-eyed seeing in practice: Participatory modeling to evaluate tribal pinniped hunting in Puget Sound as a tool for salmon recovery</i>	(\$253,077)
2020	BPA Tribal Education and Capacity Building Grant Program <i>To implement the Makah fisheries summer internship program, delayed until 2021</i>	(\$22,012)
2019	BPA Tribal Education and Capacity Building Grant Program <i>To implement the Makah fisheries summer internship program</i>	(\$22,012)
2017	NSF REU Environmental Science and Policy <i>For research on dolphin behavior mentored by Dr. Janet Mann at Georgetown University</i>	(\$5,250)
2016	Mary Gates Endowment for Students Research Scholarship <i>For research on desiccation of eelgrass during transplantation restoration</i>	(\$1,250)
2015	LePore Scholarship <i>To acknowledge the success of first year early entrance students</i>	(\$500)

FIELD WORK

Marine Mammal Monitoring and Research Makah Tribe Marine Mammal Technician	Neah Bay, WA 2018 - present
Invasive European Green Crab Trapping Makah Tribe Marine Mammal Technician	Neah Bay, WA 2018 - present
Halibut Commercial Fishery Sampling Makah Tribe Marine Mammal Technician	Neah Bay, WA 2018 - present
West Coast Groundfish Trawl Survey	Oregon Coast

NOAA Northwest Fisheries Science Center 2018
Volunteer

Pollock Acoustic Survey **Bering Sea**
NOAA Alaska Fisheries Science Center 2018
Intern

Hake Acoustic Survey **British Columbia, Canada**
NOAA Northwest Fisheries Science Center 2017
Wet Lab Volunteer

Bottlenose Dolphin Monitoring **Chesapeake Bay**
Georgetown University 2017
NSF REU Student

Bottlenose Dolphin Monitoring **Cardigan Bay, Wales, UK**
Sea Watch Foundation 2016
Research Intern

Plankton Sampling **West Coast Vancouver Island**
Deep Green Wilderness 2015
Student and Sailor

Sea Star Census **Golden Gardens Marine Preserve**
Seattle Aquarium 2013
Citizen Scientist

MENTORSHIP

NOAA Hollings Application Process

2024 Megan Cosand (awarded) and Ellie In
2023 Annabel Wade (awarded) and Lauren Grady

Makah Fisheries Summer Internship Program

2023 Jerriq Johnson, TeJae Buckingham, William Tyler, Tanisha Engram
2022 Azasha-Mya Greene, Aunjraya Roberts, Seactis Woodruff, Nelson Bowechop
2021 Paul Greene Jr, Ryana Moss, Shilaily Woodruff, Ethan Gonzales
2019 Kaeden Butterfield, Angelina Woods, Laney Keyes, Tobias Croy

TEACHING

UW Program on the Environment **Seattle, WA**
Reader/Grader 2022-2023
Grading and feedback

Makah Fisheries Summer Internship Program

Intern Coordinator
Research and management skills

Neah Bay, WA

2019-present

Huntington Learning Center

Tutor
Test-taking, homework help, subject matter practice

Bellevue, WA

2018

ADVISORY GROUPS

American Fisheries Society

Pinniped Working Group

WA/BC

2024 - present

NWIFC/NOAA

Workforce Development Working Group

Washington

2022 - present

Peninsula College

Natural Resources Employer Advisory Council

Port Angeles, WA

2022 - present

Equity & Inclusion Committee

UW School of Aquatic and Fishery Sciences

Seattle, WA

2022 – 2023

WA Commercial Whale Watch Rulemaking Process

Intergovernmental Advisory Group

Olympia, WA

2019 - 2022

REVIEWER ACTIVITIES

PLOS ONE

NMFS John H. Prescott Marine Mammal Rescue Assistance Grant Program

SKILLS AND CERTIFICATIONS

SCUBA PADI Open Water, SDI Advanced Adventure

OIL SPILL 48 Hour HAZWOPER, Oiled Wildlife Response

COMPUTER Microsoft Office, R

BOAT WA Boater Education Certification, Sailing (race, day sail, cruise)

VOLUNTEER ACTIVITIES

Community Boating Program

Outreach/Event Volunteer

Port Angeles, WA

2023 - 2024

UW Students Explore Aquatic Sciences

Outreach/Event Volunteer

Seattle, WA

2023 - 2024

Hoko State Park Community Garden

Volunteer

Seki, WA

2020 - 2021

Scout Troop 681

Chaperone/Outing Facilitator

Washington

2018

Conservation Made Simple**Everett, WA**

Head of Public Image	2017 - 2019
The Whale Museum	Friday Harbor, WA
Archives Volunteer	2016
Collecting the Stories of the Latino Elderly	Yakima, WA
Transcriber	2016
Seattle Aquarium	Seattle, WA
Youth Ocean Advocate	2014 - 2015
Amnesty International	Seattle, WA
UW Chapter Officer	2014 - 2016
The Global Immersion Project	US/MX Border
Peacemaker In Training	2014, 2015
YMCA Earth Service Corps	Garfield High School
Club Member	2013 - 2014

RELEVANT COURSEWORK

Spring 2023	Adv Environmental Law
Spring 2023	Linear Modeling with Environmental Data
Spring 2023	Indigenous Research Methodologies
Winter 2023	Marine Policy Analysis
Winter 2023	Quantitative Ecology
Fall 2022	American Indian Law
Fall 2022	Salmon Biology
Fall 2022	Conservation Computing
Spring 2018	Modeling in Conservation and Resource Management
Winter 2018	Fisheries Oceanography
Winter 2018	Aquatic Animal Physiology
Winter 2018	Statistics for Biologists
Fall 2017	Genetics and Molecular Ecology
Fall 2017	Introduction to Environmental Law and Process
Fall 2017	R Statistical Programming
Spring 2017	Marine Mammalogy: Biology and conservation of marine mammals
Spring 2017	Fisheries Ecology: Ecological and human impacts on fisheries management
Winter 2017	Arctic Marine Vertebrate Ecology: Ecology and biology of Arctic vertebrates
Winter 2017	Biology of Shellfish: Marine invertebrate biology course
Fall 2016	Integrative Oceanography: Biology, chemistry and physics of the ocean
Fall 2016	Biology of Fishes: Physiology, ecology, evolution and identification of fishes
Fall 2016	Research in Marine Biology: Eelgrass restoration project with Dr. Sylvia Yang
Fall 2014	Marine Biology: Biology and ecology of the marine environment