

Elizabeth (Liz) Marina Allyn

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Harvest Management | Treaty Rights | Fisheries Ecology | Conservation Policy

I believe in doing science that is rigorous and creative, fills a data gap identified by management, and features meaningful community engagement. I am most interested in science that informs equitable resource management, especially in the context of treaty right exercise and management of culturally important resources.

EDUCATION

University of Washington, Seattle, WA

MSc, Aquatic and Fishery Sciences (2025)

BS, Aquatic and Fishery Sciences (2018)

Marine Biology and Quantitative Science minors

Cum Laude with Honors

CURRENT EMPLOYMENT

Salmon Recovery Coordinator **Coast Salmon Partnership, Aberdeen, WA** **2025-Present**

- Coordinate recovery actions for threatened sockeye salmon in Lake Ozette by developing a recovery action plan and implementing it with partners
- Contribute to the development of additional action plans and reporting for the Washington Coast Salmon Recovery Region as required by the Endangered Species Act, including any new or petitioned ESA listings in the region
- Assist the Executive Director in the coordination, review team recruitment, project tracking, and other duties as assigned to execute the Washington Coast Restoration & Resiliency Initiative grant round

PAST EXPERIENCE

Graduate Student **University of Washington, Seattle, WA** **2022-2025**

- Co-PI on Washington Sea Grant research project 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 and 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** **2018-2025**

- Assist with research on marine mammals in the Makah U&A area, including survey efforts, data entry and management, grant writing 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

2019-2024

- 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

Lewis Z K, Nelson B, Akmajian A, Scordino J J, **Allyn E M**, Schwarz D, Acevedo-Gutiérrez A. (2025) Steller sea lion (*Eumetopias jubatus*) consumption of age-0 Chinook salmon (*Oncorhynchus tshawytscha*) along the northwest coast of Washington State. PLOS One.

Walsh R P, **Allyn E M**, Bradford A L, Norman S A, Stimmelmayer R, Scordino J J. (2024) Anthropogenic and killer whale (*Orcinus orca*) scarring on Pacific Coast Feeding Group gray whales (*Eschrichtius robustus*) in northwest Washington. JCRM.

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

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. (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.

IN PREPARATION:

Allyn E M, Berdahl A M, Essington T E, Jones R F, Scordino J J. Agent-based modeling framework for exploring the impact of predator management scenarios on predator learning and foraging behavior. In prep for Ecological Modelling.

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. In prep.

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

SELECTED PRESENTATIONS (21 total, 5 shown)

American Fisheries Society, National Meeting. Participatory modeling to evaluate tribal pinniped harvest as a tool for salmon recovery. *Honolulu, HI. 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, Annual Meeting. Mysid distribution, demographics, and co-occurrence with gray whales in northwest Washington state. *Newport, OR. 2022.*

Clallam County Marine Resources Committee. 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	BIA Tribal Youth Initiative <i>2025 Makah fisheries summer internship program</i>	(\$27,366)
2023	BPA Tribal Education and Capacity Building Grant Program <i>2024 Makah fisheries summer internship program</i>	(\$24,973)
2022	BIA Tribal Youth Initiative Program <i>2023 Makah fisheries summer internship program</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>2021 Makah fisheries summer internship program</i>	(\$22,012)
2019	BPA Tribal Education and Capacity Building Grant Program <i>2019 Makah fisheries summer internship program</i>	(\$22,012)
2017	NSF REU Environmental Science and Policy <i>For research on dolphin behavior at Georgetown University</i>	(\$5,250)
2016	Mary Gates Endowment for Students Research Scholarship <i>For research on eelgrass transplantation</i>	(\$1,250)
2015	LePore Scholarship <i>To acknowledge the success of first year early entrance students</i>	(\$500)

FIELD SKILLS

Cetacean Monitoring and Research

Gray whale, humpback whale, killer whale, bottlenose dolphin, harbor porpoise

- Mark-recapture photography
- Photo identification matching
- Biopsy sampling via crossbow
 - Scat collection
- Body condition assessment
- Scar and injury assessment
 - Entanglement response
 - Necropsy
- Prey sampling via plankton net deployment
- Boat operation and positioning near whales
 - Line-transect survey
 - On-water counts

Pinniped Monitoring and Research

- Vessel-based counts
- Land-based counts
 - Scat collection

Harbor seal, California sea lion, Steller sea lion, gray seal

- Brand resights
- Entanglement documentation and assessment

Fishery Sampling

Salmon, Pacific halibut, gadids, groundfish

- Otolith sampling
- Length, weight, sex
- Fin clips/tissue sampling
- Redd surveys
- Random sampling procedures

Intertidal Monitoring and Census

- Salish Sea vertebrate and invertebrate identification
 - Invasive European green crab trapping
- Eelgrass: growth, morphology, density, disease
 - Tide height via laser level
- Zonation: transect, quadrat, randomization

ADVISORY GROUPS AND SOCIETIES

American Fisheries Society

Pinniped Working Group

WA/BC

2024 - 2025

American Fisheries Society

UW Student Subunit, Chapter Secretary

Seattle, WA

2024 - 2025

Society for Marine Mammalogy

Northwest Student Chapter, Chapter Leader

Pacific Northwest

2023 - 2024

NWIFC/NOAA

Workforce Development Working Group

Washington

2022 - 2025

Peninsula College

Natural Resources Employer Advisory Council

Port Angeles, WA

2022 - 2025

UW School of Aquatic and Fishery Sciences

Equity & Inclusion Committee

Seattle, WA

2022 - 2023

WA Commercial Whale Watch Rulemaking Process

Intergovernmental Advisory Group

Olympia, WA

2019 - 2022

REVIEW ACTIVITIES

PLoS ONE, Canadian Journal of Fisheries and Aquatic Sciences, Frontiers in Conservation Science
NMFS John H. Prescott Marine Mammal Rescue Assistance Grant Program

MENTORSHIP

NOAA Hollings Application Process

2024 Megan Cosand (awarded) and Ellie In

2023 Annabel Wade (awarded) and Lauren Grady

Makah Fisheries Summer Internship Program

2024 Adan Ellis, Cosmo Smith-Della, Xavier Russell, LeAnthony Jimmicum

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

Makah Fisheries Summer Internship Program Intern Coordinator <i>Mentor research projects and teach foundational science skills</i>	Neah Bay, WA 2019-2024
UW Program on the Environment Reader/Grader <i>Grading and giving feedback</i>	Seattle, WA 2022-2023
Huntington Learning Center Tutor <i>Test-taking, homework help, remedial math and reading</i>	Bellevue, WA 2018

VOLUNTEER ACTIVITIES

Community Boating Program Outreach/Event Volunteer	Port Angeles, WA 2023 - present
UW Students Explore Aquatic Sciences Outreach/Event Volunteer	Seattle, WA 2023 - 2024
Hoko State Park Community Garden Volunteer	Sekiu, WA 2020 - 2021
Scout Troop 681 Chaperone/Outing Facilitator	Washington 2018
NOAA NWFSC West Coast Groundfish Trawl Survey Wet Lab Volunteer	Oregon Coast 2018
NOAA AFSC Pollock Acoustic Survey Wet Lab Volunteer	Bering Sea 2018
NOAA NWFSC Hake Acoustic Survey Wet Lab Volunteer	WA/BC Coast 2017
Conservation Made Simple Head of Public Image	Everett, WA 2017 - 2019
The Whale Museum Archives Volunteer	Friday Harbor, WA 2016
Sea Watch Foundation Research Intern	New Quay, Wales, UK 2016
Collecting the Stories of the Latino Elderly Transcriber	Yakima, WA 2016
Seattle Aquarium Youth Ocean Advocate	Seattle, WA 2014 - 2015
Amnesty International UW Chapter Officer	Seattle, WA 2014 - 2016
The Global Immersion Project Peacemaker In Training	US/Mexico Border 2014, 2015
YMCA Earth Service Corps Club Member	Garfield High School 2013 - 2014

RELEVANT COURSEWORK

Continuing Education (American Fisheries Society)

Fall 2024	Structured Decision Making for Natural Resource Management
Spring 2024	Contemporary Approaches to Salmon Forecasting

Graduate Studies (University of Washington)

Spring 2023	Advanced 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 & Ecology
Fall 2022	Conservation Computing

Undergraduate Studies (University of Washington)

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
Spring 2017	Fisheries Ecology
Winter 2017	Arctic Marine Vertebrate Ecology
Winter 2017	Biology of Shellfish
Fall 2016	Integrative Oceanography
Fall 2016	Biology of Fishes
Fall 2016	Research in Marine Biology
Fall 2014	Marine Biology