

Elizabeth Marina Allyn

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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

Expected Winter 2025

BS, Aquatic and Fishery Sciences

Marine Biology and Quantitative Science minors

Graduated *Cum Laude* with Honors in 2018

CURRENT EMPLOYMENT

Graduate Student

University of Washington, Seattle, WA

- 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

- 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

- 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

PROFESSIONAL INTERESTS

Harvest Management | Treaty Rights | Marine Mammal Ecology | Conservation Policy

PUBLICATIONS

- 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.

SUBMITTED:

- Lewis Z K, Nelson B, Scordino J J, **Allyn E M**, Akmajian A, Schwarz D, Acevedo-Gutiérrez A, Lance M. (2024) 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. In review with 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. Preparing for 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	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

- 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
 - Brand resights
- Entanglement documentation and assessment

Fishery Sampling

- Salmon, halibut, gadids, groundfish
 - Otolith sampling
 - Length, weight, sex
 - Fin clips/tissue sampling
- 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

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
Mentor research projects and teach foundational science skills

Neah Bay, WA
2019-present

UW Program on the Environment

Reader/Grader
Grading and giving feedback

Seattle, WA
2022-2023

Huntington Learning Center

Tutor
Test-taking, homework help, remedial math and reading

Bellevue, WA
2018

ADVISORY GROUPS AND SOCIETIES

American Fisheries Society

Pinniped Working Group

WA/BC
2024 - present

American Fisheries Society

UW Student Subunit, Chapter Secretary

Seattle, WA
2024 - present

Society for Marine Mammalogy

Northwest Student Chapter, Chapter Leader

Pacific Northwest
2023 - present

NWIFC/NOAA

Workforce Development Working Group

Washington
2022 - present

Peninsula College

Natural Resources Employer Advisory Council

Port Angeles, WA
2022 - present

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

SKILLS AND CERTIFICATIONS

BOAT WA Boater Education Certification, Small Boat Handling, Sailing (race, day sail, cruise)
COMPUTER Microsoft Office, Google Suite, Dropbox, R, Figma, Wordpress
SCUBA PADI Open Water, SDI Advanced Adventure
OIL SPILL 48 Hour HAZWOPER, Oiled Wildlife Response

VOLUNTEER ACTIVITIES

Community Boating Program	Port Angeles, WA
Outreach/Event Volunteer	2023 - present
UW Students Explore Aquatic Sciences	Seattle, WA
Outreach/Event Volunteer	2023 - 2024
Hoko State Park Community Garden	Seki, WA
Volunteer	2020 - 2021
Scout Troop 681	Washington
Chaperone/Outing Facilitator	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/Mexico Border
Peacemaker In Training	2014, 2015
YMCA Earth Service Corps	Garfield High School
Club Member	2013 - 2014

RELEVANT COURSEWORK

Graduate

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

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