

# 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

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### 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

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### 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 EMPLOYMENT

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### 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**

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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, Stimmelmayr 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. Preparing 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.

**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 (21 total, 5 shown)**

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**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 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

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2023	<b>BIA Tribal Youth Initiative</b> <i>2025 Makah fisheries summer internship program</i>	(\$27,366)
2023	<b>BPA Tribal Education and Capacity Building Grant Program</b> <i>2024 Makah fisheries summer internship program</i>	(\$24,973)
2022	<b>BIA Tribal Youth Initiative Program</b> <i>2023 Makah fisheries summer internship program</i>	(\$25,781)
2021	<b>Washington Sea Grant</b> <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	<b>BPA Tribal Education and Capacity Building Grant Program</b> <i>2021 Makah fisheries summer internship program</i>	(\$22,012)
2019	<b>BPA Tribal Education and Capacity Building Grant Program</b> <i>2019 Makah fisheries summer internship program</i>	(\$22,012)
2017	<b>NSF REU Environmental Science and Policy</b> <i>For research on dolphin behavior at Georgetown University</i>	(\$5,250)
2016	<b>Mary Gates Endowment for Students Research Scholarship</b> <i>For research on eelgrass transplantation</i>	(\$1,250)
2015	<b>LePore Scholarship</b> <i>To acknowledge the success of first year early entrance students</i>	(\$500)

## FIELD SKILLS

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### 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

## **MENTORSHIP**

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### **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**

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### **Makah Fisheries Summer Internship Program**

Intern Coordinator

**Neah Bay, WA**

2019-2024

*Mentor research projects and teach foundational science skills*

### **UW Program on the Environment**

**Seattle, WA**

Reader/Grader

2022-2023

*Grading and giving feedback*

### **Huntington Learning Center**

**Bellevue, WA**

Tutor

2018

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

## **ADVISORY GROUPS AND SOCIETIES**

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### **American Fisheries Society**

**WA/BC**

Pinniped Working Group

2024 - 2025

### **American Fisheries Society**

**Seattle, WA**

UW Student Subunit, Chapter Secretary

2024 - 2025

### **Society for Marine Mammalogy**

**Pacific Northwest**

Northwest Student Chapter, Chapter Leader

2023 - 2024

### **NWIFC/NOAA**

**Washington**

Workforce Development Working Group	2022 - 2025
<b>Peninsula College</b>	<b>Port Angeles, WA</b>
Natural Resources Employer Advisory Council	2022 - 2025
<b>UW School of Aquatic and Fishery Sciences</b>	<b>Seattle, WA</b>
Equity & Inclusion Committee	2022 – 2023
<b>WA Commercial Whale Watch Rulemaking Process</b>	<b>Olympia, WA</b>
Intergovernmental Advisory Group	2019 - 2022

## SKILLS AND CERTIFICATIONS

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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

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

## RELEVANT COURSEWORK

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*Continuing Education (American Fisheries Society)*

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

*Graduate Studies (University of Washington)*

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|-------------|---|
| 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)*

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| 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                                   |