

# Elizabeth Marina Allyn

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Liz believes in doing science that is rigorous and creative, fills a data gap identified by management, and features meaningful community engagement. She is most interested in doing science to inform 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

Expected Spring 2025

BS, Aquatic and Fishery Sciences

Marine Biology and Quantitative Science minors

Graduated *Cum Laude* with Honors in 2018

## CURRENT EMPLOYMENT

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### 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 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

## PROFESSIONAL INTERESTS

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

## PUBLICATIONS

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- 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. Submitted to 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)

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**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

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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

- 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**

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

Reader/Grader

*Grading and giving feedback*

**Seattle, WA**

2022-2023

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

Intern Coordinator

*Teach research and management skills*

**Neah Bay, WA**

2019-present

### **Huntington Learning Center**

Tutor

*Teach test-taking, homework help, remedial*

**Bellevue, WA**

2018

## **ADVISORY GROUPS AND SOCIETIES**

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### **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

## REVIEWING ACTIVITIES

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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

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BOAT WA Boater Education Certification, Small Boat, Sailing (race, day sail, cruise)  
COMPUTER Microsoft Office, Google Suite, 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>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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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
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
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