

Alyssa Scott

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EDUCATION

University of North Carolina Wilmington Aug 2022 – Present
Doctor of Philosophy in Integrative, Comparative, and Marine Biology

University of Washington Sept 2015 – Dec 2017
Bachelors of Science in Biological Oceanography

Ocean Research College Academy Sept 2013 – June 2015
Associate of Arts & Sciences

EXPERIENCE

PhD Student Aug 2022 – Present
University of North Carolina Wilmington, Wilmington, NC

- Investigating the ecological shifts of Antarctic crabeater seals in a changing climate using biologging technology to develop habitat models and stable isotopes to map the trophic web of the Western Antarctic Peninsula

White House Intern Sept 2023 – Dec 2023
Office of Clean Energy Innovation & Implementation

- Performed and compiled research for staff members on topics regarding climate and ocean policy
- Conducted media research on clean energy to develop a weekly press report for principal staff
- Assisted staff by performing administrative duties related to the implementation of the Inflation Reduction Act
- Supported staff by managing quantitative databases and developing project-tracking resources
- Attended meetings for staff and debriefed them with effective and succinct topline

Marine Mammal Stranding Network Coordinator & Principal Investigator Aug 2019 – Aug 2022
The Whale Museum, Friday Harbor, WA

- Coordinated and conducted all alive and dead marine mammal stranding and disentanglement responses in San Juan County
- Lead necropsies of fresh dead marine mammals; managed lab space and equipment; managed the organization of tissue and fluid samples and their dispersal to collaborative researchers
- Successfully wrote over \$250,000 in grants to fund the Stranding Network
- Hired, mentored, and trained several undergraduate interns
- Wrote, funded, and spearheaded a 5 year aerial flight survey study aimed at developing the pupping index of the harbor seal population
- Primary vessel operator for the Network's response vessel, a 25' aluminum landing craft, the *R/V Buzzard*

Acoustician Contractor

Dec 2018 – Aug 2019

NOAA, Northeast Fisheries Science Center (NEFSC), Woods Hole, MA

- Responsible for analyzing North Atlantic right whale, humpback, and kogia whale data along the Western Atlantic coast
- Analyzed data using analytical programs such as R and ArcGIS to map migrational patterns
- Developed advanced proficiency in passive acoustic monitoring programs such as Pamguard

Marine Mammal Stranding Network Intern

June 2017 – Aug 2018

The Whale Museum, Friday Harbor, WA

- Assisted in conducting marine mammal stranding responses and necropsies
- Acted as First Mate on the Network's response vessel
- Assisted in managing and completing data entry into several longitudinal databases
- Assisted with pinniped entanglement surveys, using a DSLR camera to confirm entanglements
- Developed training content to enhance training of future interns and volunteers
- Planned and hosted public outreach events

Research Apprentice

Sept 2017 – Dec 2017

UW Friday Harbor Laboratories, Friday Harbor, WA

- Successfully completed a research thesis investigating the seasonality of plankton, export flux, and the response of pelagic foragers
- Primary vessel operator during class data collection trips
- Developed an instrument to calculate export flux in our ecosystem
- Conducted diet analyses on Pacific sand lance
- Analyzed chlorophyll-a biomass using a fluorometer

Data Analyst / Acoustician

Sept 2017

Deep Green Wilderness, Seattle, WA

- Sailed from Seattle, WA to Southeast Alaska to locate and track the endangered North Pacific right whale
- Managed the deployment and data collection of the passive acoustic hydrophone

NOAA Ernest F. Hollings Scholar

June 2016 – Aug 2016

Northeast Fisheries Science Center (NOAA), Woods Hole, MA

- Analyzed passive acoustic North Atlantic right whale data along the western North Atlantic coast
- Mapped migrational patterns using ArcGIS
- Developed advanced proficiency in passive acoustic monitoring programs such as Raven and LFDCS

RECOGNITION & AWARDS

- LGBTQIA+ Research Spotlight by Technology Network (2023)
- University of Washington Alumni Research Spotlight (2021)
- Best Undergraduate Study – University of Washington Research Symposium (2017)
- Best Marine Science Talk – University of Washington Research Symposium (2016)

2023	\$7,000	Colucci Income Fund
2023	\$1,000	Ralph Brauer Fellowship
2023	\$1,700	Owen Graham Kenan Scholarship
2022	\$4,200	Owen Graham Kenan Scholarship
2021	\$6,000	San Juan Island Community Foundation Scientific Diving, Research, and Education
2021	\$35,000	John H. Prescott Marine Mammal Rescue Assistance Grant Project Title: Ongoing Disentanglement Efforts, Stranding Response, and Disease Surveillance in San Juan County, and Development of an Annual Harbor Seal Pupping Index
2020	\$99,800	John H. Prescott Marine Mammal Rescue Assistance Grant Project Title: Enhanced Stranding Response, Disentanglement and Disease Surveillance in San Juan County, WA
2019	\$99,500	John H. Prescott Marine Mammal Rescue Assistance Grant Project Title: Stranding Response, Disease Surveillance, and Entanglement Response in San Juan County, WA
2017	\$5,000	University of Washington Mary Gates Research Endowment
2016	\$25,000	NOAA Ernest F. Hollings Scholarship and Internship Program
2015	\$5,000	Student Training in Maritime Scholarship

PUBLICATIONS

Scan the QR code to read the following publications for free



- Norman, S. A., J. L. Huggins, D. M. Lambourn, L. D. Rhodes, M. G. Garner, J. Bolton, J. K. Gaydos, A. Scott, S. Raverty and J. Calambokidis. 2022. Risk factor determination and qualitative risk assessment of Mucormycosis in Harbor porpoise, an emergent fungal disease in Salish Sea marine mammals. *Frontiers in Marine Science*. doi.org/10.3389/fmars.2022.962857
- D'Agnese E., D.M. Lambourn, J.K. Olson, J. Huggins, S. Raverty, M. Garner, J. Calambokidis, A.A. Scott, S. Jefferies, and J.K. Gaydos. 2021. Congenital diseases in harbor seals (*Phoca vitulina richardsii*) from the Salish Sea. *Journal of Wildlife Diseases*, 57(3). doi.org/10.7589/JWD-D-20-00179
- Olson, J.K., D. Lambourn, J. Huggins, A.A. Scott, S. Raverty, and J. K. Gaydos. 2021. Trends in propeller strike-induced mortality in harbor seals (*Phoca vitulina*) of the Salish Sea. *Journal of Wildlife Diseases*, 57(3). doi.org/10.7589/JWD-D-20-00221
- Norman, S.A, D.M Lambourn, J.L. Huggins, J.K. Gaydos, S. Dupernell, S. Berta, J.K. Olson, V. Souze, A. Evans, B. Carlson, M. Johnson, R. Mayer, C. King, and A. A.Scott. 2021. Antibiotic resistance of bacteria in two marine mammal species, harbor seals and harbor porpoises, living in an urban marine ecosystem, the Salish Sea, Washington State, USA. *Oceans*, 2:86-104. doi.org/ 10.3390/oceans2010006
- Davis, G., M.F Baumgartner, P.J Corkeron...A. Scott, M. Soldevilla, J.E. Stanistreet, K. Stafford, E. Summers, J.B. Thornton, S. Todd, and S.M Van Parijs. 2020. Exploring movement patterns and changing distributions of baleen whales in the western North Atlantic using a decade of passive acoustic data. *Global Change Biology*, 26(9). doi.org/10.1111/gcb.15191

PRESENTATIONS & LECTURES

- Scott, A. UNCW SeaGems – Women in Science. November 2022.
- Scott, A. UNCW Trivia: Ecology & Physiology of Crabeater seals in a Changing Climate. November 2022.
- Scott, A. UNCW MMSP Meeting: Ecology & Physiology of Crabeater seals in a Changing Climate. November 2022.
- Scott, A. Pinnipeds of the Salish Sea. Marine Naturalist Training Program. July 2019, 2020, 2021.
- Scott, A. The importance of marine bioacoustics and what it can teach us. University of Washington Friday Harbor Labs. November 2020.
- Scott, A. The functions of a Marine Mammal Stranding Network – importance, findings, and applications. University of Washington Friday Harbor Labs. October 2019.
- Scott, A. and K. Stafford. An analysis of passive acoustic monitoring of marine mammals at Barrow Point, AK. University of Washington Research Symposium. May 2018.
- Scott, A. Seasonal variability in plankton, export flux, and the response of pelagic foragers. University of Washington Friday Harbor Laboratories. December 2017.
- Scott, A., G. Davis, D. Cholewiak. Recent North Atlantic right whale acoustic presence along the Western North Atlantic coast – tracking the migrational pattern of an endangered whale for policy change. Association for the Sciences of Limnology and Oceanography. February 2017.
- Scott, A. Diet composition and latrine site usage of the Snohomish River otter. University of Washington Undergraduate Research Symposium. May 2016.

ADDITIONAL SKILLS/QUALIFICATIONS

- Educational Advisory Board Member for Deep Green Wilderness
- Member of 500 Queer Scientists Project
- Proficient in statistical analysis programs (R) and spatial mapping programs (ArcGIS)
- Scuba Certifications: Basic Open Water, Advanced Open Water, Scientific Diver
- Washington State Boat Operator Safety Certification
- Level 2/3 Large Whale Disentanglement Response Training
- Proficient in passive acoustic monitoring programs such as Raven & Pamguard