

Alyssa Scott

aas1781@uncw.edu

| 425.418.1998

| www.alyssascott-marine.weebly.com/

EDUCATION

University of North Carolina Wilmington Aug 2022 – Present
Doctor of Philosophy in Integrative, Comparative, and Marine Biology GPA: 4.0

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.
- Developing a method to determine crabeater seal body condition using unmanned aerial vehicles
- Leading a citizen science campaign for Antarctic seal sightings: <https://antarctic-seals.com/>

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 LFDSCS

RECOGNITION & AWARDS

- NSF Graduate Research Fellowship Program Honorable Mention (2024)
- 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)

2024	\$1,000	Robert R. Bryden Graduate Research Award
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., A. Pearson, M. Tift. Skype a Scientist in Antarctica. June 2023.

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
- 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 statistical analysis programs (R) and spatial mapping programs (ArcGIS)
- Proficient in passive acoustic monitoring programs such as Raven & Panguard