

Amanda Alva

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EDUCATION

- The University of Texas at Austin** Austin, TX May 2019
Bachelor of Science in Biology – Marine and Freshwater Sciences
Bridging Disciplines Certificate in the Environment and Sustainability
- Auburn University** Auburn, AL May 2022
Master of Science in Natural Resources

PRESENTATIONS

- Hurricane Harvey Symposium 2018** University of Texas Marine Science Institute, Port Aransas, TX
"Recovery Times of Salinity in Galveston Bay: Comparison of Impact from Hurricanes versus Riverine Flooding"
- Semester by the Sea Student Symposium 2019** University of Texas Marine Science Institute, Port Aransas, TX
"Developing a qPCR method for the red tide species *Karenia brevis*"

RESEARCH

- Oregon Department of Fish and Wildlife** Astoria, Oregon August 2019 – October 2019
Columbia River Fishery Sampler
- Collected data from commercial landings to estimate Chinook and Coho salmon abundance and survival from ocean back to the Columbia and its tributaries
 - Built working relationships with commercial fishermen and commercial buyers
 - Directed sampling team during busy season
 - Completed spawning surveys to determine spawning habitat abundance
 - Completed hatchery sampling to determine characteristics and abundance of fish returning to hatchery
- Mission-Aransas National Estuarine Research Reserve** Port Aransas, TX January 2019 – May 2019
Intern
- Designed and planned curriculum for interdisciplinary programs
 - Stepped in to answer phone calls and assist with other office duties
 - Logged data for future use of NERR
- Semester by the Sea** University of Texas Marine Science Institute January 2019 – May 2019
Researcher
- Developed dilution and qPCR method to determine grazing pressure on *Karenia brevis* red tide species for monitoring implications
 - Will interpret results to understand how grazing may act as a control on harmful blooms
- Texas Parks and Wildlife** Rockport, TX February 2019
Field Technician Volunteer
- Conducted bag seines and bay trawls for Gulf of Mexico bays
 - Learned how to use agency gear and instruments for fish surveys
 - Gained knowledge of basic fishery species, management practices, and regulations in Texas

Texas Water Development Board Austin, TX

June 2018 – August 2018

Bays and Estuaries Program Internship

- Developed method of recovery to analyze salinity recovery due to hurricane and riverine flooding with data provided from TWDB
- Interpreted results using Python to understand underlying freshwater inflow trends for numerous events in the past thirty years on the Texas coast
- Used understanding of wetland ecology to interpret data and effects of Hurricane Harvey on Texas bays and estuaries

Freshman Research Initiative University of Texas at Austin

August 2015 – December 2015

Researcher

- Organized an independent research study based on ethanol production by two different Texan grasses
- Conducted research on different plant species and amount of ethanol each produced as background to brainstorming hypothesis
- Interpreted and summarized results in a scientific report and presentation

PROFESSIONAL REFERENCES

Kelly Dunning Mission-Aransas National Research Reserve
Coastal Training Program Manager / Research Scientist

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Evan Turner Texas Water Development Board
Bays and Estuaries Scientist

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Natalie Scheibel Oregon Fish and Wildlife
Columbia River Management Project Biologist

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