**Ana Noel**

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**Education:**

University of Miami, Miami FL

* Currently enrolled in the Master of Professional Science program in the Marine Mammal Science Track
* GPA: 4.0/4.0

University of Alaska Anchorage, Homer, AK

* Participated in the Semester by the Bay Program Fall 2021 and Spring 2022 semesters
* Marine Mammal Biology Occupational Endorsement Certificate
* Conservation Ecology Occupational Endorsement Certificate
* GPA: 4.0/4.0, Chancellor’s List Fall 2021 and Spring 2022

University of Wisconsin- La Crosse, La Crosse, WI

* Bachelor of Science, Graduated May 2021
* Major: Biology, Aquatic Science concentration, Minor: Spanish and Chemistry
* GPA: 3.5/4.0, Dean’s list Fall 2020 and Spring 2021

Stony Brook University, Southampton, NY

* Participated in the Semester by the Sea Program Fall 2019 and Spring 2020 semesters
* GPA 3.7/4.0

**Relevant Experiences:**

**Elasmobranch Field Research** *Field School, Miami FL* August-December 2022

* Tied knots such as clove hitch, bowline, and cleat hitch
* Assisted in removing bow and stern lines from dock
* Assisted in cleaning boat after field day
* Assembled, deployed, and reeled in longline and drumline fishing gear
* Cut fish and baited hooks
* Snorkeled to look for yellow spotted stingrays
* Participated in elasmobranch’s work-up
	+ Held down sharks tail to allow for data collection
	+ Placed pump in sharks’ mouth if needed
	+ Tagged sharks by placing tag in dorsal fin
	+ Measured sharks using measuring tape
	+ Collected elasmobranch samples such as blood, muscle, fin, and parasites
	+ Wrote down data and labeled sample tubes
* Processed blood to determine lactate levels

**Horseshoe Crab Watch** *Florida Fish and Wildlife, Miami, FL* September 2022- April 2023

* Walked the beach to search for horseshoe crabs
	+ Tagged horseshoe crabs
	+ Measured horseshoe crabs
	+ Weighed horseshoe crabs
	+ Determined sex of horseshoe crabs
	+ Aged horseshoe crabs
	+ Took pictures of horseshoe crabs
	+ Wrote down data

**Seal and Sea turtle Rehabilitation** *NY Marine Rescue Center, Riverhead, NY* June- August 2022

* Participated in animal physicals
	+ Prepared paperwork for bloodwork
	+ Collected weight by placing animal on scale
	+ Took measurements of sea turtle shells using a caliper to monitor growth
	+ Took photos and uploaded them to the computer
	+ Cleaned shell, checked for injuries, applied manuka honey to wounds
	+ Put blood in container to be received for testing
* Took water quality measurements of tanks
* Prepared animal diets, fed them, and disinfected the kitchen
* Assisted in animal restraint for veterinarian check-ups
* Monitored unresponsive sea turtle after IV injection
* Cleaned and disinfected animal enrichment
* Did tank checks every morning and evening to ensure tanks were running appropriately
* Responded to stranded common dolphin call
	+ Restocked box truck with appropriate supplies
	+ Took breath counts of dolphin
	+ Assisted placing and carrying dolphin in stretcher
	+ Assisted in euthanasia and sample collection of dolphin
* Participated in seal and sea turtle releases
	+ Collected public donations
	+ Assisted in flipper tagging animals for release
	+ Assisted in carrying animal down to the beach
	+ Held herding board for seals to ensure public safety
	+ Took pictures of animals being released
* Ran the front desk/shop and answered all public questions
* Gave a tour to the public of the facility

**Homer Wildlife Response Volunteer and Sea Otter Intern**

*Alaska SeaLife Center, Seward, AK; US Fish and Wildlife Service, Homer, AK* September 2021- April 2022

* Responded to both live and dead stranding reports of marine mammals
* Took level A measurements of deceased marine mammals
* Took rectal swabs and collected scat samples of deceased sea otters
* Took skin samples of a dead harbor seal, humpback whale, and beluga
* Observed behavior of live, stranded sea otters
* Collected carcasses to be shipped, frozen, or discarded of
* Dissected a sea otter to obtain bones
* Created posters, tri-folds, and flyers for Marine Mammal Forum

**Beluga Monitoring** *Alaska Beluga Monitoring Partnership (AKBMP), Cook Inlet, AK* September 2021-April 2022

* Participated in 2-hour beluga monitoring sessions for the AKBMP
* Completed data sheets on beluga sightings for the AKBMP
* Photographed belugas for photo identification work
* Recorded behavior of belugas for the AKBMP
* Took eDNA samples using Kemmerer and filtered in a lab
* Used refractometer, pH meter, and temperature probe to analyze water samples

**Marine Mammal Boat Observer** *Kachemak Bay, Homer, AK* September 2021-April 2022

* Used binoculars to find and count marine mammals
* Photographed marine mammals for identification and research
* Marked locations of marine mammals and the path of the boat using GPS
* Deployed a hydrophone to obtain cetacean audio
* Wrote down observations in data log
* Engaged in marine mammal line transect surveys while on the boat

**Fieldwork** *Kenai Peninsula College, Homer, AK* October 2021-April 2022

* Tracked moose collars using radio telemetry techniques
* Trimmed willow trees for regrowth for moose feeding
* Collected plankton for research using plankton tow
* Attended a harbor porpoise necropsy
* Collected water samples and performed water quality tests
* Participated in a sea duck survey and shorebird monitoring by counting, photographing, and identifying bird species
* Engaged in intertidal line transect surveys
* Participated in razor clam survey by collecting clams that floated to the surface with Alaska Department of Fish and Game

**Sea Star Wasting Research Project***Kenai Peninsula College, Homer, AK* January-April 2022

* Swabbed sea stars to grow bacteria on agar plate
* Performed gram stains on bacteria and identified them under a microscope
* Tested bacteria for antibiotic resistance using antibiotic disk
* Presented research in a poster format at an undergraduate symposium

**Cook Inlet Beluga Necropsy***National Marine Fisheries Service**Anchor Point, AK* November 2021

* Collected beluga organ samples
* Inserted and removed blades on scalpels
* Labeled test tubes and whirl bags for lab work
* Photographed and cataloged injuries to the beluga

**Stejneger's Beaked Whale Publication Work** *Kenai Peninsula College, Homer, AK* September-December 2021

* Excavated whale bones
* Buried whale flippers and shoulders to be dug up in a year
* Cleaned whale bones using a hose and soap
* Photographed and 3D scanned whale bones
* Measured and weighed whale bones
* Created a publication book for research scientists

**Skeletal Articulation** *Kenai Peninsula College, Homer, AK* August-December 2021

* Arranged marine mammal bones in correct orientation
* Articulated Stellar sea lion right flipper and a harbor porpoise skeleton
* Drilled and glued harbor porpoise and Steller sea lion bones

**Humpback Identification Intern** *Winged Whale Research, Homer, AK* August-December 2021

* Updated humpback whale identification catalog
* Used catalog to photo ID humpbacks in Kachemak Bay
* Drove boat to obtain whale fluke photos
* Created map of humpback sightings
* Learned how to tie clove, hitch, and cleat hitch knots
* Removed mast and secured boat to trailer

**Seal Identification Work** *Cupsogue Beach, Westhampton, NY* February-March 2020

* Photographed individual seals to look for unique markings
* Added photos to a public database to monitor individual harbor seals
* Observed and recorded seal behavior

**Fish Identification Work** *Stony Brook University, Long Island Sound, NY* September-December 2019

* Identified and drew fish species with use of dichotomous key to understand differences among species and determine invasive species
* Dissected fish species and identified major organs and structures to learn about the anatomy of fish and the differences between species

**Plankton Identification Research** *Stony Brook University, Southampton, NY* September-December 2019

* Identified plankton species using microscopic techniques and dichotomous key to determine species distribution and invasive species
* Captured photographs of plankton species to create a species catalog
* Kept records of each individual to determine the number of plankton in each sample
* Used Sechi disk to measure water turbidity

**Computer Programs:** Excel | Google sheets | Google Drive | Google Maps |PowerPoint | RStudio, Zotero | Audacity |QGIS | Zoom |MATLAB

**Laboratory skills:** Quality assurance, Data analysis

**Trainings:** Wildlife Safety Training (*Alaska Department of Fish and Game*) | Live and Dead Marine Mammal Stranding Training (*Alaska SeaLife Center*) | Zoonosis (*Alaska SeaLife Center*) |Beluga Monitoring Training (*Alaska Beluga Monitoring Partnership*) | Shorebird Monitoring (*Kachemak Bay Birders*) |Deckhand Skills (*University of Alaska Anchorage*) | IACUC Training (*University of Miami*) | SDI Open Water Scuba Certification (*Good Life Divers*) | Florida Horseshoe Crab Watch Volunteer Training (*Florida Fish and Wildlife*)