

**Callie Steffen**

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**EDUCATION**

**Master of Environmental Science and Management** (Expected June 2020)

Bren School of Environmental Science & Management – University of California, Santa Barbara (UCSB)

Specialization: Conservation Planning

Coursework: Coastal Policy and Management, Environmental Law and Policy, Conservation Planning Practicum, Advanced Geographic Information System, Advanced Data Analysis, Applied Population Ecology, Earth System Science, Environmental Politics and Policy

**Bachelor of Arts in Psychology**, *Magna Cum Laude*, GPA: 3.737 (May 2013)

Florida Atlantic University, Boca Raton, FL

Research: Directed Independent Study- Student assistant in the Evolutionary Developmental Psychology Lab assisting in academic research in Altruistic Behaviors of Children

Awards: Dean's List (3 Semesters), Golden Key International Honor Society (2009-2013)

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**MASTER'S THESIS GROUP PROJECT**

***Whales, Vessels, and Fish: Economic Valuation of Whale Watching and Marine Spatial Planning Surrounding Dominica*** (04/19-04/20) | Client: Dominica Sperm Whale Project

- Worked as part of a multidisciplinary team to analyze sperm whale distribution and vessel traffic off the west coast of Dominica to determine where ship traffic poses a threat to sperm whales
- Created a marine spatial plan to propose potential shipping lanes/slow down areas that avoid whale hotspots
- Developed an economic valuation of the whale tourism sector to incentivize their conservation

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**PROFESSIONAL EXPERIENCE**

**Ocean Solutions Intern- Benioff Ocean Initiative**, Santa Barbara, CA (10/19-Present)

- Reviewed, edited, and processed scientific data on the marine shipping industry and collisions with whales due to traffic patterns and speed
- Extracted sea water temperature data from deployed sensors and performed an analysis using R studio to help determine the effective design of the sensor in order to track temperature trends
- Calculated carbon emissions saved by substituting different food groups for beef and meat through a literature review to determine company-wide carbon savings of switching to a less carbon intensive food group
- Researched corporate sustainability agreements and petitions to design a pledge for shipping companies that voluntarily slow down (10 knots or less) in whale habitats so companies can use sustainability efforts for marketing and branding purposes
- Delivered a subject brief for the World Economic Forum on Slavery in Fishing to educate participants on the issue and generate a conversation on how technology can be implemented to monitor and mitigate the issue

**Conservation Ranching Research Intern- Audubon California**, Sacramento, CA (06/19-09/19)

- Analyzed and implemented spatial data sets into a GIS landscape prioritization model in order to determine ideal locations for Conservation Ranching
- Mapped model outputs using GIS to determine conservation ranching priority areas in California to achieve endangered bird species habitat restoration to assist in species recovery
- Conducted literature review and synthesis to examine conservation ranching techniques, landscape prioritization, and decision making processes to determine the best approach for the project
- Designed a decision making hierarchy for criteria weights using the Analytical Hierarchy Process in order to assign weights to the GIS model criteria

**Research Assistant-Channel Islands National Marine Sanctuary**, Santa Barbara, CA (03/19-06/19)

- Conducted field-based research assessing the economic value of whales in the Santa Barbara Channel Region by recruiting passengers to take an in-person survey while aboard whale watching vessels
- Facilitated the collection and analysis of economic survey information and processed the data collected by inputting responses into the database
- Supported protected species recovery in accordance with Marine Mammal Protection Act and Endangered Species Act regulations by educating passengers on the Channel Islands National Marine Sanctuary and regional marine mammal species

**Bottlenose Dolphin Research Intern-The Bottlenose Dolphin Research Institute, Galicia, Spain (03/14/-05/14)**

- Participated in the first ever pilot study on the region's dolphin population. Collected environmental, population, and behavioral data and maintained the database entry and transcription
- Coordinated and conducted various tasks to facilitate marine mammal research such as created the first ever photo-identification catalog using Darwin and Discovery computer programs to document the region's population, responded to stranded marine mammals, and completed field necropsies on deceased mammals
- Generated maps on geographical data collected on the mammal sightings to determine the population dynamics such as population size and foraging sights
- Created a manual for Discovery, a photo identification and population data catalog for future interns to navigate the program

**Assistant Market Manager-Vetco, Seattle, WA (07/17-08/18)**

- Managed a corporate division of veterinary wellness centers by interviewing and hiring employees, staffing veterinarians, setting schedules, delegating tasks, monitoring productivity, and providing employee feedback
- Assisted with budget management reviewing financials (weekly sales reports, clinic audits, incident reports, employee tracking, and clinic inventory) to determine obligations and expenders for clinics
- Coordinate travel by preparing arrangements for veterinary team including with company vehicles, employee reimbursements, and scheduling for 25+ employees
- Designed a training and orientation program for 20+ new hires, while training them in technician work and customer care and provider services

**Veterinary Technician Assistant/Office Manager- Pet Diagnostics, North Palm Beach, FL (06/14-06/17)**

- Performed technical skills in surgeries, dentals, phlebotomy, and radiographs. Implemented laboratory protocols for running blood-work and performing diagnostic testing to ensure patient care
- Managed office reception by scheduling appointments, overseeing inventory protocols, managing distributor accounts, and kept in compliance with county and state permits for biomedical waste
- Generated cost reports for patient care and managed patient medical records in database software and physical folders to ensure organization and thoroughness of records

**ADDITIONAL EXPERIENCE**

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**Channel Islands Marine & Wildlife Institute, Gaviota, CA (01/2019-Present)**

- Volunteered in the sea lion rehabilitation hospital by participating in medical preparation, food preparation, health analysis, and hospital maintenance to rehabilitate wounded and sick sea lions for release back into the wild
- Assisted in necropsies for an environmental toxicology study that researches trace metals found in marine mammals

**Harbor Branch Oceanographic Institute at Florida Atlantic University, Fort Pierce, FL (07/2012-05/2017)**

- Collected morphological data, biological samples, prepared blood kits, and packaged and shipped the biological field samples to assess the health of the bottlenose dolphin population in the Indian River Lagoon through a Health and Environmental Risk Assessment (HERA)
- Assisted in marine mammal strandings, necropsies, rehabilitations, and public outreach with the Wyland Foundation

**International Student Volunteers, Osa Peninsula Golfo Dulce, Costa Rica (06/2011-07/2011)**

- Research assistant for a PhD student collecting data for a dolphin research and conservation project. Data collection on scan samples, GPS coordinates, behavior recognition, and obtaining photos and videos

**Marine Science and Technology Center, Des Moines, Washington (11/2017-08/2018)**

- Trained to respond to stranded marine mammals and perform on-site education to the community

**SKILLS & PROFESSIONAL AFFILIATIONS**

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**Computer and Technical Skills:** R Studio, Arc GIS, MaxEnt, Microsoft Office Suite, Darwin Photo Identification Program, Discovery Computer Program, Advantage veterinary software

**Affiliations:** The Wildlife Society at UCSB, Bren School Sustainability Committee

**Certification:** SSI SCUBA certified