# Fletcher McConnell

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## EDUCATION

**Master of Environmental Data Science,** (Expected June 2024)
**Bren School of Environmental Science & Management – University of California, Santa Barbara (UCSB)**
  Highlighted Coursework: data visualization, geospatial analysis, machine learning, database management, environmental modelling

**Bachelor of Science in Environmental Studies**, 3.66 GPA (June 2018)
**University of California, Santa Barbara (UCSB)**

## MASTER'S CAPSTONE DATA SCIENCE PROJECT

**Mapping Global Tree Vulnerability Under Climate Change** (1/24–Present)
**Role: Project Manager| Client: Dr. Joan Dudney**
- Writing reproducible, updatable and efficient code for processing and mapping tree vulnerability
- Creating an interactive dashboard (R Shiny) for visually displaying vulnerability maps among tree species' ranges
- Working collaboratively through GitHub, Slack and in-person meetings to streamline project progress

## PROFESSIONAL EXPERIENCE

**Marine Mammal Technician** (09/18–05/22)
**Science Applications International Corporation (SAIC)**, San Diego, CA
- Designed and integrated daily animal training exercises and health checks to achieve a high level of success; assisted veterinary staff with routine and emergency medical procedures for animal health
- Ensured training goals were hit, through detailed record keeping and meeting with our government customer
- Exceeded at advanced SCUBA operations in varied sea states to collect performance data; performed routine and emergency maintenance on training equipment / facilities
- Captained 18' to 33' watercraft daily within San Diego Bay and open ocean; oversaw weekly basic maintenance

**Computer Team Support** (11/14–11/17)
**Bren School of Environmental Science & Management**, Santa Barbara, CA
- Resolved technical challenges through responding to help tickets received on Zendesk
- Installed hardware systems for new staff and students; digitized records of entire building's inventory
- Deployed software programs Zoom, Box and Slack; trained users on proper use
- Delivered on-the-spot IT support during lectures to ensure the smooth functioning of audio, video, lighting and other presentation tools

**Scientific Research Intern** (01/17–06/17)
**Channel Islands National Marine Sanctuary**, Santa Barbara, CA
- Researched and compiled pertinent data to support and strengthen the successful operation of the 2017 Vessel Speed Reduction incentive program, the publication of the 2017 West Coast Whale Entanglement Summary, and a manual of best practices for Spiny Lobster fisherman
- Conveyed personal research on invasive algae in the Santa Barbara Channel to stakeholders and NOAA staff during Sanctuary Advisory Council meetings
- Participated in nautical and aerial whale-counts and island clean-ups in and around the Santa Barbara Channel

## ADDITIONAL EXPERIENCE

**Valet On-Site Supervisor – Brand Enhanced (Hotel Virginia)**, Santa Barbara, CA (10/22–7/23)

## SKILLS

**Programming Languages:** R, Python, SQL
**Certifications:** SCUBA Advanced Open Water
**Affiliations:** Bren School of Environmental Science and Management