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, data analysis

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 and efficient code for analyzing and mapping tree vulnerability to climate change
- Designing and implementing an interactive R Shiny dashboard to visualize vulnerability across various tree species; this tool will assist in making more effective forest management decisions
- Working collaboratively through GitHub, Slack and in-person meetings to streamline project progress

PROFESSIONAL EXPERIENCE

Marine Mammal Operator (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; consistently adapted training plans to align with evolving objectives set forth by our government client
- Achieved quarterly training objectives through meticulous planning and effective prioritization of tasks
- 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 maintenance

IT Support Technician (11/14–11/17)
Bren School of Environmental Science & Management, Santa Barbara, CA
- Resolved a variety of 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 by troubleshooting technical issues and ensuring 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 relevant 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
- Presented 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

SKILLS

Programming Languages: R, Python, SQL
Skills: project management, technical/public presentation, data visualization, data collection and analysis
Certifications: SCUBA Advanced Open Water
Affiliations: Bren School of Environmental Science and Management