

Taylor Lockmann

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SUMMARY OF QUALIFICATIONS

- Master's student in environmental science and management with a specialization in conservation planning.
- Experience in spatial and data analysis; training in R, QGIS, ArcGIS, CollectEarth and Google Earth Engine.
- Developed numerous reports for both technical and non-technical audiences in diverse fields.
- Analyzed land use and forest cover change over time, developing maps and models to quantify and visualize deforestation trends in response to policy changes in central Chile.

EDUCATION

Master of Environmental Science and Management, 4.00 GPA (Expected June 2022)

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

Specialization: Conservation Planning

Highlighted Coursework: Earth System Science, Data Analysis, Advanced Data Analysis, GIS, Ecology of Managed Ecosystems, Conservation Planning (completed by June 2021)

Bachelor of Science in Environmental Studies, 3.48 GPA (June 2018)

University of California, Santa Barbara (UCSB)

Honors/Awards: Regents Scholar, Dean's List (1 quarter); Edison-McNair GRE Preparation Course Scholarship (Spring 2018), Edison-McNair grant for 8-week GIS research project (Summer 2018)

Study Abroad: University of Copenhagen, Denmark; Awarded U.S. Department of State's Benjamin A. Gilman International Scholarship and UC Education Abroad Program's Promise Scholarship (Fall 2017)

DATA MANAGEMENT & ENVIRONMENTAL RESEARCH EXPERIENCE

Research Assistant, GIS Project: "Quantifying forest cover change in central Chilean Mapuche territories,"

Robert Heilmayr Lab, UCSB, Santa Barbara, CA (6/18-8/18)

- Managed 8-week research project to map land use change and quantify deforestation trends in Chile since the 1970s using GIS, remote sensing data, and historical images and maps.
- Classified a stratified sample of training data to act as basis for a land use determination machine learning model (using ArcGIS, CollectEarth, and Google Earth Engine).
- Used the results of this algorithm to classify land use in central Chile into seven categories; compared land use in forested areas to modern-day land use practices in the same areas.
- Developed maps of progressive land use change since the 1970s using ArcGIS in order to quantify deforestation trends in communally managed lands and the surrounding landscapes.
- Analyzed personally-made maps of progressive land use changes to determine a net gain of forest cover in native Mapuche-managed territories, and a decline in non-native managed lands.
- Presented findings to 100+ colleagues at the 2018 UCSB Summer Research conference in a scientific poster.

Environmental Restoration Specialist - UCSB Cheadle Center for Biodiversity and Ecological Restoration (CCBER), Santa Barbara, CA (3/16-2/18)

- Removed invasive plant species and re-introduced native species of vegetation on two restoration projects, totaling 5.2 acres of restored native wetlands.
- Assessed overall growth of both native and exotic species by collecting and analyzing transept data once every 3 months in randomly selected plots on each site.
- Oversaw coordination of new employees and volunteers by training new staff in site protocol, monitoring techniques, and vegetation species.

- Performed ecological monitoring of restored sites as well as other research activities such as seed collection and cataloging and wildlife monitoring.

Database Management Intern - Santa Barbara County Public Health Department, Santa Barbara, CA (7/16-6/17)

- Updated and managed database of vulnerable population information for SB County Public Health Department, Emergency Medical Services Agency.
- Contacted ~200 care facilities in Santa Barbara County via email and phone to verify and update current emergency preparedness surveys and information. Tracked progress of updated and verified facilities.
- Collaborated with Geographic Information Systems (GIS) department to create relevant, up-to-date maps of all vulnerable population facilities in SB County.
- Provided other assistive duties to officials within Emergency Medical Services Agency as needed, such as implementation of county-wide disaster preparedness drills.

PROJECT MANAGEMENT EXPERIENCE

Mission Continuity Specialist - Environmental Health & Safety, UCSB, Santa Barbara, CA (12/18-1/21)

- Created and deployed a continuity plan development tool for campus units in response to COVID-19.
- Managed university's continuity program by working directly with departments to develop business continuity plans focusing on Campus Essential Functions.
- Implemented and oversaw execution of a pilot program to simultaneously develop 32 departmental continuity plans using a network of Google forms and other technology.
- Directed efforts to develop a Campus Business Impact Analysis (BIA) by identifying Essential Departments, and using those departments to inform the Campus BIA and Enterprise Continuity Plan.
- Oversaw the development of an online Emergency Operations Center (EOC) platform using Microsoft SharePoint. Used this platform to provide situational awareness to campus leadership during periods of emergency or disaster.
- Coordinate EOC setup, direction, development, and operations during monthly Emergency Planning Committee meetings, as well as during emergency activations.

Health Education Associate - Santa Barbara County Public Health Department, Santa Barbara, CA (8/18-11/18)

- Coordinated with other departments, such as Environmental Health and Safety Hazmat teams to create and implement disaster recovery timeline plans and produce after-action data.
- Organized and maintained inventories of disaster supply caches for Santa Barbara County Public Health for use in the event of a drill or actual disaster situation.
- Gathered and disseminated public health information to the public, such as information on September's Disaster Preparedness Month, free vaccination clinic dates, and yearly influenza information.
- Planned and facilitated county-wide drills involving multiple entities, such as Public Health, local vulnerable population facilities, and emergency medical service providers.

CERTIFICATIONS

- LEED Green Associate (GA), U.S. Green Building Council (Renewed 7/19): Assisted with UCSB Bren Hall LEED certification project that achieved the building's third LEED Platinum rating (9/16-6/17).
- Environmental Health & Safety Generalist (12/18)
- California Department of Fish and Wildlife (CDFW) Oil Spill Prevention & Response Training (10/19)
- Various emergency management credentials such as FEMA and OSHA certificates

SKILLS & ADDITIONAL TRAINING

Technical: GIS(ArcMap, QGIS), Esri Training MOOC: Cartography (Completed 6/19)

Computer: Microsoft Office (Word, PowerPoint, Excel), Google Suite (Docs, Sheets, Drive)