

Madison Calbert

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EDUCATION

Master of Environmental Science and Management (Expected June 2025)

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

Specialization: Conservation Planning

Highlighted Coursework: Conservation Planning, Geographic Information Systems, Advanced Data Analysis for Environmental Science and Management, Ecology of Managed Ecosystems

Bachelor of Science in Environmental Studies (June 2019)

College of Letters and Science – University of California, Santa Barbara (UCSB)

Highlighted Coursework: Biometry, Environmental Ecology, Ecological Restoration, Biodiversity and Conservation, Conservation Planning, Public Speaking for the Environment

MASTER'S GROUP PROJECT

Evaluating Conservation Gaps Across a Proposed Sentinel Landscape (4/24 – Present)

Role: Project Manager, Finance Manager | **Client**: LegacyWorks Group

- Manage a 5-person project team, facilitating team and client meetings, coordinating collaborative efforts, steering project development, and overseeing financial management to ensure project success.
- Identify priority conservation areas within the larger Santa Barbara region to include in a Sentinel Landscape application in partnership with Vandenberg Space Force Base and 15+ stakeholder groups.
- Create a geospatial priority map in ArcGIS Pro to visually represent critical areas for conservation efforts, aiding in the decision-making process for a future Sentinel Landscape designation.

DATABASE MANAGEMENT EXPERIENCE

Stakeholder Engagement Intern – LegacyWorks Group, Santa Barbara, CA (07/24–09/24)

- Interviewed 15+ stakeholders within the proposed Sentinel Landscapes region, including The Santa Barbara Land Trust and TNC's Dangermond Preserve to identify stakeholder conservation priorities.
- Developed a qualitative analysis approach using grounded theory, including interview questions, an informational primer, and sentiment analysis to determine shared themes between stakeholders.
- Created and maintained a comprehensive spreadsheet tracking stakeholders' contact information, interview schedules, and summaries to ensure streamlined workflow and accurate records.

Island Biosecurity Intern – The Nature Conservancy, Santa Barbara, CA (06/24–09/24)

- Led a comprehensive study encompassing field work, report writing, and data analysis to evaluate biosecurity devices for invasive species management on Santa Cruz Island and Palmyra Atoll.
- Oversaw a database of remote camera footage from 24 stations across Santa Cruz Island and Coal Oil Point Reserve, using Timelapse software to process media and create datasets for analysis in RStudio.
- Mentored an undergraduate research assistant through the Bren Environmental Leadership (BEL) program.

Wildlife Biologist I / Botanist – Condor Country Consulting Inc., Martinez, CA (04/21–02/23)

- Managed a database of California tiger salamander (CTS) and California reg-legged frog (CRLF) trapping data, ensuring accuracy and thorough entry.
- Conducted biological monitoring and pitfall trapping for CTS, CRLF, and other herpetofauna, with handling experience under a permitted biologist
- Surveyed for 20+ special-status species, including burrowing owl and nesting birds; performed vegetation surveys and assisted with wetland delineation.
- Wrote 10+ page biological reports, managed and collected data within Excel and ArcGIS ESRI Field Maps.

COMMUNICATION AND ADMINISTRATIVE EXPERIENCE

Teaching Assistant – UCSB Environmental Studies Department, Santa Barbara, CA (09/24–06/24)

- Taught 3 discussion sections (25 students each) per week for undergraduate courses in Introductory Environmental Planning, Botany, and Introductory Literature; attended lectures, assisted students during office hours, and graded weekly quizzes and final exams.
- Provided administrative support to UCSB professors by responding to student emails, entering grades, and maintaining the course Canvas page with relevant course materials and updates.

As-Needed Staff Biologist II – HELIX Environmental Planning, San Diego, CA (03/23–09/23)

- Monitored construction activities for the East County Advanced Water Purification Project (ECAWP), overseeing the installation of a 10-mile pipeline and the construction of a water purification facility.
- Coordinated with project managers, clients, and stakeholders to ensure adherence to proper biological protocols and ensure compliance with ESA, MBTA, CWA, and CEQA.
- Conducted pre-construction habitat assessment surveys, migratory nesting bird surveys, and special-status species surveys for California gnatcatcher and Least Bell's vireo and rare plants.
- Wrote and maintained accurate, organized daily reports including site photographs, summary of activities, and species detections to document project environmental compliance.

Veterinary Care Provider – The Drake Center for Veterinary Care, Encinitas, CA (10/19–03/21)

- Communicated care plans to approximately 15 clients per day and reviewed preventative care and medication administration for canine and feline patients.
- Trained in canine and feline handling and restraint for medical diagnosis; venipuncture; radiographic positioning; and in-house laboratory sample management.
- Entered patient information into specialized veterinary database software to maintain detailed medical histories and accurate patient records.

ADDITIONAL EXPERIENCE

Animal Keeper Intern & Volunteer – Wild Wonders, Bonsall, CA (10/19–03/21)

Presented to audiences (5 to 30 people) during on-site tours and off-site education programs about the importance of wildlife conservation and the negative impacts of the exotic pet trade.

Sea Turtle Research Assistant – BIOMA Travel, Ostional, Costa Rica (07/19–08/19)

Collected and entered data on endangered olive ridley sea turtles to assist in community conservation efforts.

Urban Raccoon Research Assistant – UCSB EEMB McCauley Lab, Santa Barbara, CA (01/19–06/19)

Supported PhD research on spatial ecology of raccoons in urban areas using GPS bio-telemetry satellites.

Restoration Ecology Research Assistant – UCSB EEMB D'Antonio Lab, Santa Barbara, CA (01/19–06/19)

Supported PhD research project studying competition between invasive grasses and obligate seeding chaparral shrubs (i.e., plants requiring a fire cue for seed germination for restoration project success).

Restoration Technician/Student Worker – The Cheadle Center, Santa Barbara, CA (01/18–06/19)

Restored vernal pool and coastal sage scrub habitats, eliminated non-native plant species through hand weeding methods, and conducted transect surveys on UCSB open spaces.

SKILLS, CERTIFICATIONS & AFFILIATIONS

Computer: RStudio; ArcGIS Pro; ESRI Field Maps; Microsoft Word, Excel, Power Point

Biology: Vegetation transects surveys; plant identification and Jepson Manual keying; wetland delineations; pitfall trapping; bird, mammal, and reptile identification

Certifications: California ESA: Plant Voucher Collecting Permit – No. 2081(a)-22-105-V; American Red Cross First Aid, CPR and AED; OSHA 40-hour HAZWOPER 39 CFR 1910.120(E)

Affiliations: The Wildlife Society (Western Section, Central Coast Chapter, and UCSB Student Chapter), California Native Plant Society (East Bay and San Diego Chapters)