

Annika Leiby

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EDUCATION

Master of Environmental Science and Management, 3.84 GPA (Expected June 2021)

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

Specialization: Water Resources Management | Focus: Environmental Data Science

Awards: Sustainable Water Markets (SWM) Fellowship (6/20–Present)

Highlighted Coursework: Water Policy, Groundwater Management, Fate and Transport of Pollutants, Water Transactions, Watershed Quality Management, Advanced GIS, Watershed Analysis, Advanced Data Analysis

Bachelor of Arts in Environmental Studies and Environmental Geosciences (May 2018)

Lafayette College, Easton, Pennsylvania

Study Abroad: Danish Institute for Study Abroad (DIS), Copenhagen, Denmark (Spring 2017)

Independent Study: Morphological and Ecological Impacts of Major and Low Head Dams on Fluvial River Systems in the Western United States (Fall 2017)

WATER RESOURCES MANAGEMENT EXPERIENCE

Data Manager – Master’s Group Project; Clients: California Department of Water Resources (DWR) and Environmental Defense Fund (EDF) – UCSB Bren School, Santa Barbara, CA (4/20–Present)

Understanding Multiple Benefits of Floodplain Restoration from Flood-Managed Aquifer Recharge in California’s Central Valley for the EDF and the DWR

- Created geospatial models for determining flood risk and areas that can benefit from ecosystem enhancement in ArcMap ModelBuilder using publicly available scientific data.
- Visualized and interpreted model results to determine sites in Madera County, CA that are most suitable for multi-benefit Flood-MAR implementation.
- Coded and designed a user-friendly Shiny application in RStudio to effectively communicate our findings and recommended locations for Flood Managed Aquifer Recharge projects to stakeholders and policymakers.

Groundwater Graduate Student Researcher – UCSB Bren School, Santa Barbara, CA (6/20–9/20)

- Researched and compiled international groundwater level data for 55 countries.
- Corresponded with 30 foreign water resource managers via email to access the status of groundwater level monitoring in their countries.

Maryland Water Intern – Clean Water Action (CWA), Baltimore, MD (6/20–8/20)

- Analyzed the Environmental Impact Assessment prepared for the CERCLA Superfund site at Fort Detrick, MD and proposed modifications.
- Interpreted water quality measurements from 10 groundwater stations from a pilot mitigation study and translated results in R and Rstudio to more readily understandable data visualization materials for the public.

ADDITIONAL EXPERIENCE

Talent Pool Intern – American Geophysical Union (AGU), Washington, D.C. (1/19–4/19)

- Managed excel databases and performed statistical analysis on survey responses from the programs held at the 2018 annual American Geophysical Union Conference, and presented findings to internal staff members.
- Scheduled and recorded 45-60 minute interviews with 11 past Virtual Poster Showcase winners and transcribed the interviews to be used to promote the program and featured on the website.

Stewardship and Conservation Outings Intern – The Sierra Club, College Park, MD (5/17–8/17)

- Enhanced outreach efforts to increase participation in alien invasive plant removal outings and projects.
- Posted weekly outings on the Sierra Club’s event calendar (CAMPFIRE) to increase outing participation and Created “How-to Guides” to train Sierra Club outing leaders to use these tools.
- Created a brochure on deer ticks and Lyme disease prevention to be handed out at Sierra Club outings.

SKILLS

Computer & Collaboration: Microsoft Office Suite (Word, PowerPoint, Excel), Box, Zoom, Google Workspace (Drive, Sheets, Docs, Slides), Slack

Data & Statistical Analysis: R, RStudio, GitHub, ArcMap, ArcGIS, ArcGIS ModelBuilder