

Annika Leiby

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EDUCATION

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

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

Specialization: Water Resources Management | Focus: Environmental Data Science

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

Awards: Sustainable Water Markets (SWM) Fellowship (June 2020 – Present)

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)

WATER EXPERIENCE

Group Project – Bren School, Goleta, CA. (4/20 - Present)

Understanding Multiple Benefits of Floodplain Restoration from Flood-Managed Aquifer Recharge in California's Central Valley for the Environmental Defense Fund (EDF) and the Department of Water Resources (DWR)

- Created geospatial models in ArcMap 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.
- Designed a Shiny application in Rstudio to effectively communicate findings to stakeholders and policymakers.

Graduate Student Research – Bren School, Goleta, CA. (6/20 – 9/20)

- Researched and compiled international groundwater level data for 55 countries.
- Corresponded with foreign water resource managers 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 and proposed modifications to the Environmental Assessment prepared for the CERCLA Superfund site at Fort Detrick, Maryland.
- Interpreted water quality measurements from 10 groundwater stations from a pilot mitigation study and translated results 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 databases, performed statistical analysis on programs, and presented findings to internal staff members.
- Scheduled and Recorded interviews with 11 past Virtual Poster Showcase winners and transcribed the interviews to be used to promote the program and featured on the website.

Workforce Program Data Intern – American Geosciences Institute (AGI), Alexandria, VA (7/18–9/18)

- Collected data for the NSF-funded study titled *A Preliminary Investigation of the Structure and Nature of Geoscience Graduate Programs in the United States*.
- Constructed a database on a suite of parameters outlining the underlying structures of geoscience graduate programs in order to facilitate the further investigation into student outcomes, departmental outcomes, and preparation for the workforce.

SKILLS & CERTIFICATIONS

Computer: Microsoft Office Suite (Word, PowerPoint, Excel)

Data: R, Rstudio, GitHub, ArcMap, ArcGIS

Writing: Excellent Writing and Communication Skills