

ANDRE DEXTRE

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EDUCATION

Master of Environmental Data Science (Expected June 2023)

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

Highlighted Coursework: Geospatial Analysis & Remote Sensing, Machine Learning, Data Visualization, and Data Management

Leadership/Involvement: Co-Product Manager, Data Manager

Bachelor of Arts in Environmental Studies (June 2021)

University of California, Santa Barbara (UCSB)

Highlighted Coursework: Geospatial Analysis, Environmental Data, Statistics, Python, Water Resource Management, and Exploring Water Data

Master's Capstone Data Science Project

Assessing Groundwater Availability & Wildfire Risk (01/23-06/23)

Role: Data Manager/Co-Product Manager | Client: Kelly Easterday, The Nature Conservancy (TNC)

- Compiled and analyze fire history and groundwater ecosystem data to create a geospatial grid of Time Since Last Burned (TSLB) to assess wildfire risk.
- Managed 20 large datasets containing > 5,000 rows of data for statistical analysis of fire history, severity, and groundwater data to quantified wildfire risk.
- Aggregated data into a single user interface utilizing R Shiny App for data representation and visualization.

WATER MANAGEMENT & DATA ANALYSIS EXPERIENCE

Research Assistant, Jasechko Research Lab (1/21–9/21)

University of California, Santa Barbara (UCSB), Santa Barbara, CA

- Conducted daily field hydrology collecting groundwater samples from deep wells in remote locations.
- Prepared water samples for chemical analysis for isotopes hydrology including O-18, S-35, and Deuterium.
- Maintained and troubleshooted hydrologic field instruments including pressure transducers, multi-parameter sondes, and automatic water sampling instruments (ISCO)
- Managed sample data inventory/archive utilizing Excel and R-Studio
- Geo-referenced sample site images in ArcGIS to create an interactive map for field use
- Prepared samples for sulfur-35 analysis through collaboration with Lawrence Livermore National Laboratory

Water-Demand Data Analysis (10/20–3/21)

Water Data & Management Project, University of California – Santa Barbara

- Accessed, collected and analyzed large water-use data from the USGS for 1950-2015
- Utilized R studio to filter, organize, and plot data for scientific communication
- Compiled and formatted water-use data according to demand sectors
- Gathered drought, infrastructure, and overdraft data for water management applications
- Conducted an analysis of the critically impacted Tulare Lake Basin under the Sustainable Groundwater Management Act (SGMA)
- Presented findings to diverse audiences using plots, videos and oral communication

SKILLS, LANGUAGES AND ADDITIONAL EXPERIENCE

Data Science: R/RStudio, Python, Remote Terminals, GitHub, ArcGIS, Microsoft Office

Laboratory & Field: Groundwater Sampling, Micro-purging, Ion & Isotope Lab Processing, Field Measurements

Certifications: Technology Management Program (TMP)

Additional Experience: Accountant – Concord Real Estate, Beverly Hills, California (01/22-08/22)

Languages: English, Spanish, and Italian