



Alex Weirth

Analyst



Alex Weirth is a highly skilled professional specializing in data analysis and reporting. He demonstrates a proven ability to collaborate in cross-functional teams including with consulting engineering firms to help streamline project planning.

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EDUCATION

- > M.S. in Data Science, Willamette University
- > B.S. in Data Science, Willamette University summa cum laude
- > B.A. in Environmental Science, Willamette University summa cum laude

CAREER

- > Evergreen Economics
Analyst
2024-present
- > Willamette University
Project Assistant Intern - Data Analytics
2024
- > North Perry Water District
Geographic Information Systems Intern
2022

AREAS OF EXPERTISE

Alex is experienced in cleaning and processing large sets of data to enable project managers to make immediate, informed decisions. He has leveraged his knowledge of R to automate data cleaning and processing, and has revised the design of surveys to be more efficient, thereby increasing the response rates of stakeholders. He has extensive experience in applied research and data analysis, using software such as R, Python, and SQL, among others.

SELECTED EXPERIENCE

- > **Xcel Energy Colorado Behavioral Demand Response Program Savings Verification**
For a behavioral demand response measurement and verification study for Xcel Energy in Colorado, created the data sample and processed and cleaned model output data into a structure to be compared with other estimates and provide insight on model accuracy.
- > **California Statewide Energy Savings Assistance (ESA) Program Non-Energy Impacts (NEI) Study**
Cleaned large data and engineered new variables to stratify data for surveying. This work supports an investigation into the incidence of health, comfort and safety (HCS) benefits and developing non-market valuations of HCS benefits from no-cost energy efficiency and building upgrades available to low-income California IOU customers.
- > **Southern California Edison San Joaquin Valley Disadvantaged Communities (SJV DAC) Pilot Impact Evaluation**
Conducted billing data quality control and restructuring for regression analysis, collected weather data, and conducted survey analysis for an impact evaluation to estimate the energy usage, energy bills, and non-energy impacts of SCE's SJV Disadvantaged Communities (DAC) pilot; this pilot offered no-cost gas line extensions and efficient natural gas appliances to homes that were reliant on propane and wood-burning appliances.
- > **Energy Trust of Oregon Packaged Terminal Heat Pump Impact Evaluation**
Handling and analyzing all program and billing data to inform the most accurate analysis and results for a study to determine realized energy savings and realization rates for Energy Trust of Oregon's Packaged Terminal Heat Pump program while understanding how installation and operation characteristics impact performance.



SELECTED EXPERIENCE (continued)

> **Statewide Evaluation of New Mexico Investor-Owned Utilities' Electric and Gas Energy Efficiency and Load Management Programs**

For the New Mexico Public Regulation Commission, processed and cleaned data, analyzed survey responses, summarized survey analysis results, and conducted phone interviews for a statewide evaluation of electric and gas energy efficiency and load management programs focusing on New Mexico utilities, including process and impact analysis for programs serving the residential (including multifamily and low-income), commercial, and industrial sectors.

The following work experience was prior to Alex joining the Evergreen Economics team.

Project Assessment Intern – Data Analytics - Willamette University

- Enabled project managers to make immediate, informed decisions by providing instant up to date reports communicating analysis of performance indicators (KPIs), ensuring Title III grant compliance for the U.S. Department of Education.
- Constructed R scripts to automate data cleaning and processing, streamlining a task which once took research assistants 40 hours into an instantaneous process. Leveraged R for feature engineering of insightful performance indicators.
- Produced new and meaningful data for stakeholders through renovated survey design providing insight on the effectiveness of Title III grant activities increasing survey response amount with a more efficient survey.

Geographic Information Systems Intern - North Perry Water District

- Managed the integration of over 2,000 new data points of spatial asset data alongside consultant engineering firm, creating a cleaned and updated geodatabase streamlining future project planning and providing clarity into the condition of company assets.
- Led organized and efficient meetings to promote clear communication between teams on database updates, identifying solutions to existing issues, and setting goals to achieve project completion by the end of my internship.