



Charles Hanks

Senior Analyst



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EDUCATION

- > M.S. in Data Science, Willamette University, Portland, OR
- > B.A. in Philosophy from Clark Honors College at the University of Oregon, Eugene

CAREER

- > Evergreen Economics
2024

Charles Hanks has experience using data analytics to inform decision-making in the public sector. He brings his skillset in R and SQL for data wrangling, statistical analysis, and data visualization to transform raw data into actionable reports. For his Masters of Science in Data Science, Charles focused on machine learning, data visualization, data engineering, survival analysis, and cybersecurity.

AREAS OF EXPERTISE

Charles's expertise extends to predictive modeling and automation using Python to streamline processes and optimize resource management. He leverages this technical ability alongside strong communication skills to contribute to a variety of data analysis and market research tasks at Evergreen.

SELECTED INDUSTRY EXPERIENCE

- > **FortisBC Home Renovation Rebate Program Impact and Process Evaluation**
Performed analysis of survey data for process evaluation of the Home Renovation Rebate program. Overall project tasks include survey response analysis and visualization, net-to-gross analysis, and calculating program cost effectiveness.
- > **Pacific Gas and Electric Codes and Standards Program Research**
 - **Large Clothes Washers Study**
Analyzed survey data to uncover patterns of household laundry behavior, respondent satisfaction, and purchase motivations. Executed data cleaning, visualization, and statistical significance testing.
 - **Energy Information Administration Forecasting**
Evaluated the accuracy of electricity and natural gas prices forecasted by the Energy Information Administration over the last 20 years to assess their utility in establishing codes and standards.
- > **California Energy Commission Economic Impact Analysis in Support of Standardized Regulatory Impact Assessments**
Conducted economic impact analysis of the Replacement Tire Efficiency program regulation, which establishes minimum efficiency requirements of replacement tires for light-duty vehicles sold in California. Estimated the benefits and associated costs of the proposed regulation to residential, commercial, and public entities in California.



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SELECTED INDUSTRY EXPERIENCE (continued)

> **San Joaquin Valley Disadvantaged Communities Pilot Projects Impact Evaluation**

Conducting analysis for a project that will measure the SJV DAC pilot's impact on energy usage (electricity, gas, propane, and wood), energy costs (by fuel type), energy burden, appliance stock by fuel type, customer preferences, and forecasted energy bill savings through 2030.

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

For the New Mexico Public Regulation Commission, leading all statistical analyses in support of a statewide evaluation of electric and gas energy efficiency and load management programs focusing on two New Mexico utilities, including process and impact analysis for programs serving the residential (including multifamily and low-income) and commercial sectors. Tasks include cleaning survey contact data, survey programming, and contractor outreach.

> **Pacific Gas and Electric Family Electric Rate Assistance Program**

Performed survey programming and quality control of FERA awareness survey using Qualtrics.