

Education

B.S. Statistics: Data Science,
University of Washington

Years in Industry: 1

Areas of Expertise

Data Analysis

Statistical Analysis

Kathleen Cahya, Research Analyst

Kathleen joined ECONorthwest as a Research Analyst in 2023. She graduated from University of Washington with a Bachelor of Science in Statistics: Data Science. She specializes in data analysis and statistical analysis. Prior work experience includes data scientist internship in a SAS company, analysis on corporate environmental impact, and research on mask usage and vaccinations during the COVID-19 pandemic. She is experienced in Python, R, and SQL.

REPRESENTATIVE PROJECTS

Kathleen has served as a Research Analyst on the following projects, unless otherwise noted:

PRE-ECONORTHWEST

- **Corporate Environmental Impact (2023).** Used multi linear regression to assess which metrics are significant in predicting the corporate's total environmental intensity in R. Executed data cleaning and exploratory data analysis to check collinearity within predictors, which is useful for the model selection process. Investigated the model fit by evaluating the residual and QQ plots using ggplot2 and presented the whole analysis to non-technical users.
- **Analysis On Seattle Collisions—Seattle, WA (2022).** Delivered a business intelligence report and dashboard in Tableau for urban engineers to improve road designs and better distribute infrastructure capital. Analyzed the weather and road conditions, alcohol influence, and geographical patterns on Seattle collisions by building engaging visualizations.
- **Appointment Reservation System (2022).** Programmed an appointment scheduler for vaccinations by implementing the use of SQL from within Python via pymysql, in which the users are patients and caregivers who keep track of vaccine stocks and appointments. Utilized salting and hashing in the database systems to store and secure the users' passwords, which is connected to the Azure database.