



Cari L. Gostic

Lead Refinery Data Analyst

Ms. Gostic joined Sonoma Technology in 2020. She uses her strong R programming skills to conduct analyses, contribute to modeling projects, process large datasets, and create data visualization tools. She is involved in a wide range of projects at the company, including refinery fence-line air quality monitoring, air quality exceptional events analyses, and dashboard development projects.

Ms. Gostic earned a master's degree in data science from the University of British Columbia. Her capstone project focused on identifying amenity gaps in at-risk communities through the evaluation of global positioning system (GPS)-connected vehicle data. She used Python to efficiently perform geospatial operations on large datasets and unsupervised machine learning techniques to identify high-risk neighborhoods based on available demographic, educational, and economic data. As an undergraduate, Ms. Gostic completed a research project at Washington State University's Lab for Atmospheric Research, where she worked with many types of mass spectrometers in a lab setting to quantify sources of household indoor air pollution. Ms. Gostic also spent a summer as a student researcher in the Climate Science Department of Brookhaven National Lab, where she studied the transition from shallow to deep convection in the Amazon Rainforest.

Before joining Sonoma Technology, Ms. Gostic worked on the consulting team at Risk Management Solutions to streamline the integration of RMS software into clients' workflows, complete custom analyses, and aid in app planning and development.

Ms. Gostic is an experienced programmer in Python and R, and is developing skills with geographic information systems (GIS).

Education

- MS, Data Science, University of British Columbia
- BS, Atmospheric Science, Cornell University

Memberships

- American Meteorological Society