



Cari L. Gostic

Air Quality Data Scientist

Ms. Gostic joined Sonoma Technology in 2020 as an Air Quality Data Scientist. She is currently involved in a range of projects at the company, including refinery fence-line monitoring, exceptional events analyses, and application development projects. Her areas of interest include data analysis, processing and visualization, and model development and evaluation.

Ms. Gostic holds a Masters 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 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 that quantified carpet as a source of formaldehyde in a local household with poor indoor air quality. She used a PTR-MS and a GC-MS to measure emissions from a sample of the carpet and created a box model to determine the carpet's contribution to the household's ambient formaldehyde concentration. 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