



Melissa R. Chaveste

Atmospheric Scientist

Ms. Chaveste joined STI's Data Analysis Group as an Atmospheric Scientist in 2018. Since joining STI, she has worked on data analysis projects to assess near-road air pollution and population health exposure, as well as air quality data processing, pollutant monitoring, and community risk assessments. This work includes using R Studio, ArcGIS, and Microsoft Access to analyze a variety of data, including black carbon (BC), particulate matter (PM_{2.5} and PM₁₀), and hydrogen sulfide (H₂S) data. Her work also includes performing quality checks and validating pollutant data for the U.S. Environmental Protection Agency's (EPA) AirNow program.

Ms. Chaveste is a key team member for STI's Kids Making Sense® (KMS) education program, and develops engaging air quality curriculum for middle- and high-school students. The KMS program teaches students about air pollution using small sensor technology, and encourages them to make a difference in their communities. Ms. Chaveste's work with KMS has included developing curriculum for a No Idle program and assisting with educational outreach initiatives.

Before joining STI, Ms. Chaveste was an Environmental Educator, and worked with students in field and classroom settings to teach them about environmental awareness topics, including the water cycle, sustainable gardening, and ecology. During her time at the University of Wisconsin – Madison, she researched particulate matter pollution episodes, focusing on analyzing a PM_{2.5} pollution episode in Seattle, Washington.

Education

BS, Environmental Sciences, University of Wisconsin - Madison

For a list of publications, see sonomatech.com/ResPub/MRCpub.pdf