

## SHIHMING HUANG

Air Quality Analyst



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### Educational Background

M.S., Environmental Science, with Distinction, CSU Chico  
B.S., Biological Science, San José State University

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### Professional Experience

Mr. Huang joined STI's Air Quality Measurements and Data Analysis Division in 2008. His primary responsibilities include the acquisition, quality control, management, and analysis of air quality data, and generating regional air quality exposure assignments for exposure assessment studies. Exemplary studies in which Mr. Huang has participated are Fresno's Asthmatic Children's Environment Study; Study of Air Pollution, Genetics, and Early Life Events; Harbor Communities Monitoring Study; and numerous projects extended from the Southern California Children's Health Study. He is knowledgeable about the sources, measurement techniques, and temporal and spatial patterns of air pollutants in the Southern California region. In addition, Mr. Huang conducts surface meteorological data and traffic data analyses in support of the traffic-related air pollution exposure component of exposure assessment studies.

Mr. Huang has been actively involved in a number of USDA Forest Service projects related to fire ecology at STI. He assessed the impact of the Northern California wildfires in the summer of 2008 on air quality by performing PM<sub>2.5</sub> threshold analysis and area burned analysis. Most recently, Mr. Huang has been evaluating multiple fire behavior and fire effect models, making inter-model and model-to-observation comparisons, as a member of the teams of the Smoke and Emissions Model Intercomparison Project and the Interagency Fuels Treatment Decision Support System.

Prior to joining STI, Mr. Huang worked as an Environmental Specialist in 2007 for the Naval Surface Warfare Center, Port Hueneme Division, monitoring environmental compliance and supporting the Environmental Management System. While attending graduate school at California State University, Chico, Mr. Huang was a Teaching Associate instructing laboratory activities in two general education science courses: *Concepts in the Physical Sciences* and *Introduction to Astronomy*. In addition, he worked as a Research Assistant analyzing survey results and student demographics for the Institutional Research Office.

Mr. Huang conducted a dendroclimatology study as his graduate thesis, in which he reconstructed local precipitation history in the Chico area retrospectively to 1762. His graduate coursework covered pollution ecology, climate change, environmental monitoring, and numerical analysis.

Mr. Huang is competent in Microsoft Excel, Microsoft Access, ArcGIS, SYSTAT, SPSS, SAS, and Grapher, as well as programs developed by STI, such as the Data Management System (DMS), SURFDAT, and Roses. He has coding experience with Fortran and Visual Basic.