

SHIHMING HUANG
Air Quality Analyst



Educational Background

M.S., Environmental Science, with Distinction,
California State University, Chico
B.S., Biological Science, San Jose 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 data acquisition, validation, and analysis, as well as database creation, for air quality data for exposure assessment studies. Through Mr. Huang's participation in Fresno's Asthmatic Children's Environment Study; Study of Air Pollution, Genetics and Early Life Events; Harbor Communities Monitoring Study; and various projects extended from the Children's Health Study, he has accumulated knowledge of the sources, measurement techniques, and temporal and spatial patterns of air pollutants in the Southern California region.

Mr. Huang recently worked on an exceptional event analysis studying the influence of meteorology on local PM₁₀ concentrations. Currently, Mr. Huang has been conducting PM_{2.5} threshold analysis and area burned analysis for a U.S. Forest Service project characterizing the wildfires that occurred in California during the summer of 2008 and assessing their impact on air quality.

Prior to joining STI, Mr. Huang worked as an Environmental Specialist 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 back to 1762. His graduate coursework covered pollution ecology, climate change, environmental monitoring, and numerical analysis. Mr. Huang is competent in Excel, Access, ArcGIS, a variety of statistical packages (SYSTAT, SPSS, and SAS), and Grapher, as well as programs developed by STI, such as the Data Management System (DMS), SURFDAT, and Roses.