
Educational Background

B.S., Earth Science, California Polytechnic State University
B.A., English, California Polytechnic State University

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Professional Experience

Ms. DeWinter joined STI's Air Quality Data Analysis Division in 2008. Her responsibilities include air quality data validation and analysis, relational database development, and data retrieval and visualization in support of model development. To perform these tasks, Ms. DeWinter uses a range of software programs including the Microsoft Office suite, SQL Server for database development and management, the Data Management System (DMS) for validation, processing and management of ambient air quality data, statistical software such as SYSTAT for assessing trends and comparisons, and programs for processing and displaying data including Grapher and ESRI's ArcGIS.

Ms. DeWinter's current projects include analysis of Mobile Source Air Toxics (MSAT) concentrations, primarily black carbon, at schools near a major roadway. The project requires processing and analyzing MSATs, measured by Aethelometers™ as a surrogate for diesel particulate matter (DPM), and has implications for public health research and regulations. Her additional air toxics work includes an accountability assessment of ambient air toxics data before and after emissions regulations, a national-scale risk assessment using trends in air toxics, and development of a national toxics indicator. Jennifer also designs graphics for the U.S. Environmental Protection Agency's high visibility reports, effectively portraying national-scale data sets in a scientific manner that are also understandable by the general public.

Prior to joining STI, Ms. DeWinter worked as a research intern for the National Aeronautics and Space Administration's DEVELOP National Program at the Langley Research Center. She utilized NASA satellite technology to investigate air quality trends in the U.S.-Canadian border region and developed an algorithm to determine optimal placement of solar energy resources around the country.

Memberships

American Geophysical Union
Soil Science Society of America