D.J. Williams, Research Physical Scientist, in EPA's National Exposure Research Laboratory

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Area of Expertise: My research encompasses several areas including; chemical gas detection and characterization using optical and thermal remote sensing; imaging spectroscopy for contaminated soil sediment characterization and monitoring; remote sensing of biomass burning emissions for air quality modeling simulation/assimilation; and global change monitoring and assessment using long term satellite observations

Select Publications:

Teeguarden, J., C. Tan, S. Edwards, J. Leonard, K. Anderson, R. Corley, M. Kile, S. Simonich, D. Stone, R. Tanguay, K. Waters, S. Harper, AND D. Williams. Completing the Link between Exposure Science and Toxicology for Improved Environmental Health Decision Making: The Aggregate Exposure Pathway Framework. ENVIRONMENTAL SCIENCE & TECHNOLOGY. American Chemical Society, Washington, DC, 50(9):4579-4586, (2016).

Bingham, G., J. Bowman, C. Marchant, R. Martin, K. Moore, P. Silva, M. Wojcik, D. J. WILLIAMS, S. CHILINGARYAN, AND J. Hatfield. Atmospheric Light Detection and Ranging (LiDAR) Coupled With Point Measurement Air Quality Samplers to Measure Fine Particulate Matter (PM) Emissions From Agricultural Operations: The Los Banos CA Fall 2007 Tillage Campaign. US EPA Office of Research and Development, Washington, DC, 2012.

RASHLEIGH, B., D. J. KEITH, D. J. WILLIAMS, D. R. MANGIS, D. B. SCHWEDE, L. D. WORTHY, J. S. IIAMES, K. Pugh, AND S. C. MCCUTCHEON. Ecosystem Services Research Program (ESRP) Albemarle-Pamlico Watershed and Estuary Study (APWES) Research Plan. U.S. Environmental Protection Agency, Washington, DC, EPA/600/R-10/180 (NTIS PB2011-105281), 2010.

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Education:

- Ph.D. (student), Earth Systems and Geoinformation Science, George Mason University
- M.S. in Environmental Science, The Ohio State University, 1998
- WV B.S. (cum laude) in Natural Resources, The Ohio State University, 1996

Professional Experience:

- Research Physical Scientist. U.S. EPA, NERL, September 1998 – present

- Geospatial Analyst. Ohio EPA, Division of Surface Waters, August 1996 – September 1998
- Research Associate. The Ohio State University, September 1993 – August 1996