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Research Physical Scientist

Office of Research and Development (ORD)

Center for Environmental Measurement and Modeling (CEMM)

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Education/Training:

B.S. Civil Engineering, Washington State University, 2000

M.S. Civil Engineering, Georgia Institute of Technology, 2001

Ph.D. Environmental Engineering, Georgia Institute of Technology, 2006

My research interests include development and evaluation of photochemical air quality models as well as their applications to study air pollutants for purposes of control strategy, health impacts, and climate interactions. I have been involved in a wide of range projects including model sensitivity and uncertainty analysis using instrumented models, integrating satellite observations with modeling results, development of emission inventories, regional source apportionment, and interpreting modeling results for policy applications. I develop and support Decoupled Direct Method in Three Dimensions (DDM-3D) and the Integrated Source Apportionment Method (ISAM) for the Community Multiscale Air Quality Model (CMAQ).