

Rohit Mathur, Senior Scientist, in EPA's National Exposure Research Laboratory

Computational Exposure Division

[Mailing Address](#)

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Area of Expertise: My research deals with the development of methods to represent the physical and chemical behavior of atmospheric pollutants in comprehensive modeling frameworks. Through a multidisciplinary approach involving physical, numerical and computational modeling, my work has focused on continually enhancing the science in air quality models through exploring the development of novel new modeling methodologies.

Select Publications:

Gan, M., C. Hogrefe, R. Mathur, Jon Pleim, J. Xing, David-C Wong, R. Gilliam, G. Pouliot, AND C. Wei. Assessment of the effects of horizontal grid resolution on long-term air quality trends using coupled WRF-CMAQ simulations. *ATMOSPHERIC ENVIRONMENT*. Elsevier Science Ltd, New York, NY, 132:207-216, (2016).

Mathur, R., J. Xing, D. Kang, S. Napelenok, C. Hogrefe, G. Sarwar, AND Jon Pleim. Characterizing the Influence of Hemispheric Transport on Regional Air Pollution. 10th International Conf. on Air Quality-Science & Application, Milan, ITALY, March 14 - 18, 2016.

Hogrefe, C., G. Pouliot, J. Xing, J. Flemming, S. Roselle, R. Mathur, AND S. Galarini. Global and Regional Modeling of Long-Range Transport and Intercontinental Source-Receptor Linkages. Chapter 40, *Air Pollution Modeling and its Application XXIV*. Springer International Publishing AG, Cham (ZG), Switzerland, , 245-250, (2016).

View more research publications by [Rohit Mathur](#).

Education:

- B.S. Chemical Engineering, Birla Institute of Technology & Science, India, 1986.
- M.S. Chemical Engineering, University of Kentucky, 1988.
- Ph.D. Chemical Engineering, University of Kentucky, 1991.

Professional Experience:

- Senior Atmospheric Scientist, Computational Exposure Division, National Exposure Research Laboratory, U.S. EPA, 2016-present.

- Director/Interim Director, Atmospheric Modeling and Analysis Division, National Exposure Research Laboratory, U.S. EPA, 2012-2015.
- Acting Associate Director, National Exposure Research Laboratory, U.S. EPA, March-May 2015.
- Associate Director for Science, Atmospheric Modeling and Analysis Division, National Exposure Research Laboratory, U.S. EPA, 2011-2012.
- Chief, Atmospheric Model Development Branch, Atmospheric Modeling and Analysis Division, National Exposure Research Laboratory, U.S. EPA, 2008 – 2011
- Chief, Atmospheric Model Development Branch, NOAA Atmospheric Sciences Modeling Division (in partnership with EPA/NERL), Research Triangle Park, NC, 2007-2008
- Chief, Air Quality Forecast Research Branch, NOAA Atmospheric Sciences Modeling Division (in partnership with EPA/NERL), Research Triangle Park, NC, 2005-2007
- Physical Scientist, Atmospheric Model Development Branch, NOAA Atmospheric Sciences Modeling Division (in partnership with EPA/NERL), Research Triangle Park, NC, 2004-2005.
- Adjunct Associate Professor, Department of Marine, Earth and Atmospheric Sciences, North Carolina State University, Raleigh, NC, 1998 – present.
- Research Associate Professor, Carolina Environmental Program, University of North Carolina, Chapel Hill, 2003-2004.
- Research Scientist, Environmental Programs, MCNC, Research Triangle Park, NC, 1992-2002.
- Senior Science Specialist, Computer Science Corporation, Research Triangle Park, NC, 1991-1992