

## David Wong, Research Computer Scientist, in EPA's National Exposure Research Laboratory

Computational Exposure Division

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**Area of Expertise:** David Wong has expertise in high performance computing performance, parallel algorithms, optimization, numerical methods, and parallel I/O techniques and models coupling.

### 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, S. Napelenok, Jon Pleim, C. Hogrefe, David-C Wong, C. Gan, AND D. Kang. Multiscale Modeling of Multi-decadal Trends in Ozone and Precursor Species Across the Northern Hemisphere and the United States. Chapter 39, *Air Pollution Modeling and its Application XXIV*. Springer International Publishing AG, Cham (ZG), Switzerland, , 239-243, (2016).

Xing, J., J. Wang, R. Mathur, Jon Pleim, S. Wang, C. Hogrefe, C. Gan, David-C Wong, AND J. Hao. Unexpected Benefits of Reducing Aerosol Cooling Effects. *ENVIRONMENTAL SCIENCE & TECHNOLOGY*. American Chemical Society, Washington, DC, 50(14):7527–7534, (2016).

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### Education:

- B.S. in Computer Science and Mathematics (double major), Oklahoma State University, 1988
- M.S. in Applied Mathematics, Oklahoma State University, 1990
- Ph.D. in Computer Science, North Carolina State University, 1996

### Professional Experience:

- Computational Scientist, USEPA/ORD/NERL/AMD/AMDB, Research Triangle Park, NC 2008–present.

- Computational Scientist, NOAA Atmospheric Sciences Modeling Division (in partnership with USEPA/NERL), Research Triangle Park, NC, 2006–2008
- Senior Consultant-Science Applications, Lockheed Martin, SAIC (USEPA contractor), Research Triangle Park, NC, 1998–2006