

## Yuqiang Zhang, ORISE Postdoc fellow in EPA's National Exposure Research Laboratory

Computational Exposure Division

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**Area of Expertise:** Yuqiang Zhang has expertise in regional and global air quality model development and application, such as CMAQ, GEOS-Chem and CAM-Chem.; interactions between air quality, climate change and human health; and regional climate dynamical downscaling.

### Select Publications:

Zhang Y., Cooper O., Gaudel, A., Thompson, A., Nédélec, P., Ogino, S-Y., West J. J. (2016) Tropospheric ozone change from 1980 to 2010 dominated by equatorward redistribution of emissions, in press *Nature Geosci.*

Zhang Y., Bowden J., Adelman Z., Naik V., Horowitz L. W., Smith S. J., West J. J. (2016) Co-benefits of global and regional greenhouse gas mitigation on U.S. air quality in 2050, *Atmos. Chem. Phys.*, 16, 9533-9548, doi:10.5194/acp-16-9533-2016, 2016.

West, J. J., Smith S. J., R. Silva A., Naik V., Zhang Y., Adelman Z., Fry M. M., Anenberg S., Horowitz L. W., and Lamarque J.-F. (2013) Co-benefits of global greenhouse gas mitigation for future air quality and human health, *Nat. Clim. Chang.*, 3, 885-889, doi: 10.1038/NCLIMATE2009.

Silva, R. A., West J. J., Zhang Y., Anenberg S. C., Lamarque J.-F., Shindell D. T., Bergmann D., Berntsen T. K., Cameron-Smith P., Collins W. J., Ghan S. J., Josse B., Nagashima T., Naik V., Plummer D., Rodriguez J. M., Szopa S., and Zeng G. (2013) Global premature mortality due to anthropogenic outdoor air pollution and the contribution of past climate change, *Environ. Res. Lett.*, 8, 034005, doi:10.1088/1748-9326/8/3/034005.

Wang Y., Zhang Y., Hao J., and Luo M (2011) Seasonal and spatial variability of surface ozone over China: contributions from background and domestic pollution, *Atmos. Chem. Phys.*, 11, 3511-3525, 2011 doi:10.5194/acpd-10-27853-2010, [www.atmos-chem-phys.net/11/3511/2011/](http://www.atmos-chem-phys.net/11/3511/2011/).

### Education:

- Ph.D. in Environmental Science and Engineering, UNC-CH, 2016
- M.S. in Environmental Science and Engineering, Tsinghua University, China, 2011
- B.S. in Environmental Science and Engineering, Shandong University, China, 2008

**Professional Experience:**

- ORISE Postdoc fellow, US EPA ORD/NERL/CED/AMAAB, RTP, NC, 2016-Present
- Graduate Teaching assistant, UNC Chapel Hill, NC, 2013 – 2014
- Graduate Research Assistant, UNC Chapel Hill, NC, 2011 – 2016
- Graduate Research Assistant, Tsinghua University, China, 2008 – 2011