

Peng Liu, NRC Research Associate, in EPA's National Exposure Research Laboratory

Computational Exposure Division

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Area of Expertise: My research mainly involves evaluation of the modeling frameworks and their applications in regional climate and air quality, in order to better quantify the impact of continental scale background ozone. In addition, I also work on multi-model comparison in CTMs to understand the model discrepancy/similarity.

Select Publications:

Trail, M., Tsimpidi, A. P., **Liu, P.**, Tsigaridis, K., Hu, Y., Nenes, A., and Russell, A. G. (2015), Impact of potential CO₂-reduction policies on air quality in the United States, *Environ. Sci. Technol.*, 49 (8), pp, 5133–5141.

Stone, B., Vargo, J., **Liu, P.**, Hu, Y., (2013), Climate Change Adaptation Through Urban Heat Management in Atlanta, Georgia, *ES&T*, 47 (14), 7780–7786, doi: 10.1021/es304352e.

Liu, P., Tsimpidi, A.P., Hu, Y., Stone, B., Russell, A.G., and Nenes, A. (2012), Differences Between Downscaling with Spectral and Grid Nudging Using WRF, *Atmos. Chem. Phys.*, 12, 3601-3610

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Education:

- Ph.D. in Chemical Engineering, Georgia Institute of Technology, 2015
- M.S. in Chemical Engineering, Tianjin University, China, 2009
- B.S. in Chemical Engineering, Tianjin University, China, 2007
- B.S. in Chemistry, Nankai University, China, 2007

Professional Experience:

- NRC Research Associate, US EPA ORD/NERL/CED/AMAAB, RTP, NC, 2015-Present
- Graduate Research Assistant, Gatech, GA, 2009-2015
- Graduate Teaching Assistant, Gatech, GA, 2009-2015