

Peng Liu

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EDUCATION

08.2009 – present

Ph.D student of Georgia Institute of Technology, Atlanta, GA

09.2007 – 07.2009

Master's degree in chemical engineering

Tianjin University, Tianjin, China

Specialization: pharmaceutical crystallization, modelling of crystallization

09.2003 – 07.2007

Bachelor's degree in chemical engineering, Tianjin University, Tianjin, China

Bachelor's degree in chemistry, Nankai University, Tianjin, China

PUBLICATIONS

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

Stone, B., Vargo, J., **Liu, P.**, Hu, Y., (2013) Climate Change Adaptation Through Urban Heat Management in Atlanta, Georgia, ES&T (in review)

Trail, M., Tsimpidi, A. P., **Liu, P.**, Tsigaridis, K., Hu, Y., Nenes, A., and Russell, A. G.: Downscaling a global climate model to simulate climate change impacts on US regional and urban air quality, *Geosci. Model Dev. Discuss.*, 6, 2517-2549, doi:10.5194/gmdd-6-2517-2013

SCIENTIFIC PRESENTATIONS

2012

- **Liu P.**, Hu Y.; Nenes A.; Russell A.G, Application of Loop Noah Method to Study the Impact of Landuse Change at Fine Scale , American Assoc. for Aerosol Research (AAAR) 31th Annual Conference (*oral presentation*)
- **Liu P.**, Yongtao Hu, Brian Stone, Jason Vargo, Marcus Trail, Alexandra Tsimpidi, Athanasios Nenes, Armistead Russell, Ensemble simulations to study the impact of land use change of Atlanta to regional climate, American Geophysical Union (AGU) Fall Meeting (poster presentation).

2011

- Tsimpidi A.P.; **Liu P.**; Tsigaridis K.; Hu Y.; Nenes A.; Russell A.G., Comparison of present-day regional meteorological fields developed from a downscaled global model to in situ and reanalysis data, American Geophysical Union (AGU) Fall Meeting (*poster presentation*).

2010

- **Liu,P.**, A. P. Tsimpidi, Y. Hu, A. G. Russell. Downscaling comparison using Weather Research and Forecast model with between spectral nudging and grid nudging techniques, *9th Annual CMAS Conference, oral presentation*