

Xiaotian Xu

Email: xx24@illinois.edu

M3002 Natural History Building, 1301 W Green St, Urbana, IL, 61801

Education

University of Illinois Urbana-Champaign

since Aug. 2021

PhD: Atmospheric Science

Advisor: Prof. **Nicole RIEMER**

The Hong Kong University of Science and Technology

Sep. 2018 – Nov. 2019

MSc: Environmental Science & Management

Advisor: Prof. **Jianzhen YU**

Shanxi University

Sep. 2014 – Jun. 2018

BEng: Environmental Engineering

Professional Experience

University of Illinois Urbana-Champaign

since Aug. 2021

Graduate Research Assistant, Department of Atmospheric Science

Advisor: Prof. **Nicole RIEMER**

Nanjing University

Dec. 2019 – Jun. 2021

Research Assistant, School of Atmospheric Science

Advisor: Prof. **Yanxu ZHANG**

Publication

5. **X. Xu**, N. Riemer, J. Curtis, Surfactants effect on cloud condensation nuclei activity using a particle-resolved model, in prep
4. **Xu, X.**, Feng, X., Lin, H., Zhang, P., Huang, S., Song, Z., Peng, Y., Fu, T.-M., Zhang, Y.: Modeling the high-mercury wet deposition in the southeastern US with WRF-GC-Hg v1.0, *Geoscientific Model Development*, 15, 3845–3859, <https://doi.org/10.5194/gmd-15-3845-2022>.
3. Zhao, Y., Zhang, K., **Xu, X.**, Shen, H., Zhang, Y., Shen, G., Substantial changes in Nitrogen Dioxide and Ozone after excluding meteorological impacts during the COVID-19 Outbreak in mainland China, *Environmental Science & Technology Letters*, 2020. DOI: 10.1021/acs.estlett.0c00304.
2. Geng, H., Jin, C., Zhang, D., Wang, S., **Xu, X.**, Wang, X., Zhang, Y., Wu, L., Ro, C., Characterization of Size-resolved Urban Haze Particles Collected in Summer and Winter at Taiyuan city, China Using Quantitative Electron Probe X-Ray Microanalysis, *Atmospheric Research*, 2017. DOI: 10.1016/j.atmosres.2017.02.005.
1. Zhang, Y., Geng, H., Zhang, D., **Xu, X.**, Wang, S., Wang, X., Wang, D., Ro, C., Influences of Biomass and Coal Burning on Ambient Fine Particulate Matter over Taiyuan City, *Journal of Anhui Agriculture Science*, 2016, 4(5): 109-112, 18. (In Chinese)

Conference Presentations

3. Oral, Investigating impact of surfactants on cloud condensation nuclei activity with a particle-resolved aerosol model, International Aerosol Modeling Algorithms Conference, Davis, CA, Dec 2023
2. Poster, Quantifying the impact of organic films on cloud condensation nuclei activity using a particle-resolved model, American Chemical Society Spring Meeting, Indianapolis, IN, Mar 2023
1. Poster, Quantifying Impact of Organic Films on Cloud Condensation Nuclei Activity, Midwest Student Conference for Atmospheric Research, Urbana, IL, Oct 2022

Teaching and Mentoring Experience

Graduate Mentorship Program

2022 - 2023

Selected Awards

Samuel, Berle D. and Jeffrey A. Schlesinger Travel Grant	<i>2023 Fall</i>
Samuel, Berle D. and Jeffrey A. Schlesinger Travel Grant	<i>2023 Spring</i>
The Best ES&T Letters Papers in 2020 (DOI: 10.1021/acs.estlett.1c00562)	<i>2021</i>
Independent Research Project Funding, Nanjing University	<i>2019</i>
First Prize on Publication, 15th Shanxi Challenge Cup	<i>2017</i>
Poster Award, 2016 China-Canada Analytical Chemistry Conference	<i>2016</i>
Excellence Prize, National Undergraduate Innovation & Entrepreneurship Training	<i>2016</i>

Technical Skills

Programing Languages: FORTRAN, Python, NCL, shell, CDO, NCO

Model: PartMC, GEOS-Chem, WRF-CMAQ, WRF-Chem, WRF-GC

Memberships

Member, American Meteorology Society (AMS)

Member, American Geophysical Union (AGU)

Member, The American Association for Aerosol Research (AAAR)