Wenjun Meng

PhD student
College of Urban and Environmental Science
Peking University

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Education

Ph. D. in *Environmental Science*, Peking University.   2017.9-2022.7 (expected)

B. Sc. in *Environmental Science*, Peking University.   2013.9-2017.7

Academic Experience

Research Assistant, Laboratory for Earth Surface Processes, Peking University   2017.11-2019.7
Advisor: *Prof. Shu Tao*
Project: **Energy-environment-health Benefits of Rrural Residential Coal-substitution in Northern China**

Research Assistant, Laboratory for Earth Surface Processes, Peking University   2016.9-2017.6
Advisor: *Prof. Shu Tao*
Project: **Stove Improvement and Effects on Environment and Health in Rural China** (Undergraduate Thesis)

Visiting Scholar, School of Civil and Environmental Engineering, Georgia Institute of Technology   2016.8-2017.1
Advisor: *Prof. Armistead G. Russell*
Project: **Air Quality Modeling in China Using CMAQ**

Research Assistant, Laboratory for Earth Surface Processes, Peking University   2015.1-2017.1
Advisor: *Prof. Shu Tao*
Project: **High-resolution Global Ammonia Emission Inventory**

Teaching Assistant, College of Urban and Environmental Science, Peking University   2018.9-2019.1
Course: **Applied Statistics**
Instructor: *Prof. Shu Tao*

Skills

Programming: Proficient in MATLAB, C; familiar with Python, HTML, R.

Tools: MATLAB, ArcGIS, SPSS, Linux.

Languages: English (professional), Mandarin Chinese (native), Japanese (beginner)

Awards and Honors

Principal Scholarship , Peking University, 2019.

Tiehan Scholarship, CUES, Peking University, 2018.

Excellent Research Award, Peking University, 2018.

Principal Scholarship , Peking University, 2017.

Publications

Meng, W.; Zhong, Q.; Chen, Y.; Shen, H.; Yun, X.; Smith, K. R.; Li, B.; Liu, J.; Wang, X.; Ma, J.; Cheng, H.; Zeng, E. Y.; Guan, D.; Russell, A. G.; Tao, S., 2019. Energy and air pollution benefits of household fuel policies in northern China. *Proceedings of the National Academy of Sciences*, 201904182.

Shen, G.; Ru, M.; Du, W.; Zhu, X.; Zhong, Q.; Chen, Y.; Shen, H.; Yun, X.; **Meng, W.**; Liu, J.; Cheng, H.; Hu, J.; Guan, D.; Tao, S., 2019. Impacts of air pollutants from rural Chinese households under the rapid residential energy transition. *Nature Communications*, 10 (1), 3405.

Zhu, X., Yun, X., **Meng, W.**, Xu, H., Du, W., Shen, G., Cheng, H., Ma, J. and Tao, S., 2018. Stacked use and transition trends of rural household energy in mainland China. *Environmental Science and Technology*.

Zhong, Q., Ma, J., Shen, G., Shen, H., Zhu, X., Yun, X., **Meng, W.**, Cheng, H., Liu, J., Li, B. and Wang, X., 2018. Distinguishing Emission-Associated Ambient Air PM2.5 Concentrations and Meteorological Factor-Induced Fluctuations. *Environmental Science and Technology*, 52(18), pp.10416-10425.

Tao, S., Ru, M.Y., Du, W., Zhu, X., Zhong, Q.R., Li, B.G., Shen, G.F., Pan, X.L., **Meng, W.J.**, Chen, Y.L. and Shen, H.Z., 2018. Quantifying the rural residential energy transition in China from 1992 to 2012 through a representative national survey. *Nature Energy*, p.1.

Zhang, Y., Kang, S., Sprenger, M., Cong, Z., Gao, T., Li, C., Tao, S., Li, X., Zhong, X., Xu, M. and **Meng, W.**, 2018. Black carbon and mineral dust in snow cover on the Tibetan Plateau. *Cryosphere*, 12(2), pp.413-431.

Huang, T., Zhu, X., Zhong, Q., Yun, X., **Meng, W.**, Li, B., Ma, J., Zeng, E.Y. and Tao, S., 2017. Spatial and temporal trends in global emissions of nitrogen oxides from 1960 to 2014. *Environmental Science and Technology*, 51(14), pp.7992-8000.

Meng, W., Zhong, Q., Yun, X., Zhu, X., Huang, T., Shen, H., Chen, Y., Chen, H., Zhou, F., Liu, J. and Wang, X., 2017. Improvement of a global high-resolution ammonia emission inventory for combustion and industrial sources with new data from the residential and transportation sectors. *Environmental Science and Technology*, 51(5), pp.2821-2829.