

Haolin Wang (王浩霖)

Ph.D. candidate

School of Atmospheric Sciences, Sun Yat-sen University

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EDUCATION

2019/09-present	<i>Ph.D. candidate in Atmospheric Physics & Atmospheric Environment</i>
Sun Yat-sen University	School of Atmospheric Sciences
Zhuhai, China	(Advisor: Professor Shaojia Fan; Associate Professor Xiao Lu)
2015/09-2019/06	<i>B.E. in Atmospheric Sciences</i>
Chengdu University of Information Technology, Chengdu, China	School of Atmospheric Sciences

PROFESSIONAL SKILLS

Numerical models: GEOS-Chem

Programming software: NCL, Python, ArcGIS, SPSS, MATLAB, Origin

HONORS AND AWARDS

- 2020** • Second Class Scholarship
- 2019** • New-student Second Prize Award
- 2017** • Third Prize in Jiangsu Contest District in China Undergraduate Mathematical Contest in Modeling Competition
- Outstanding Student Leader
- 2016** • Second Prize in National College Cryptography Mathematics Challenge

PUBLICATIONS

2021

- **Wang, H.**, Wu, K., Liu, Y., Sheng, B., Lu, X., He, Y., Xie, J., Wang, H., and Fan, S. (2021). Role of Heat Wave-induced Biogenic VOC Enhancements in Persistent Ozone Episodes Formation in Pearl River Delta. *Journal of Geophysical Research: Atmospheres*, 126, e2020JD034317.
- He, Y., **Wang, H.**, Wang, H., Xu, X., Li, Y., and Fan, S. (2021). Meteorology and topographic influences on nocturnal ozone increase during the summertime over Shaoguan, China. *Atmospheric Environment*, 256,

118459.

- Wu, K., Zhu, S., Liu, Y., **Wang, H.**, Yang, X., Liu, L., D., Donald, and D. C., Christopher. (2021). Modeling ammonia and its uptake by secondary organic aerosol over China. *Journal of Geophysical Research: Atmospheres*, 126, e2020JD034109.
- Yang, X., Wu, K., Lu, Y., Wang, S., Qiao, Y., Zhang, X., Wang, Y., **Wang, H.**, Liu, Z., Liu, Y., and Lei, Y. (2021). Origin of regional springtime ozone episodes in the Sichuan Basin, China: Role of synoptic forcing and regional transport. *Environmental Pollution*, 278, 116845.

2020

- Yang, X., Wu, K., **Wang, H.**, Liu, Y., Gu, S., Lu, Y., Zhang, X., Hu, Y., Ou, Y., Wang, S., and Wang, Z. (2020). Summertime ozone pollution in Sichuan Basin, China: Meteorological conditions, sources and process analysis. *Atmospheric Environment*, 226, 117392.
- Yang, X., Lu, Y., Zhu, X., He, J., Jiang, Q., Wu, K., **Wang, H.**, Zhang, X. and Wang, S. (2020). Formation and Evolution Mechanisms of Severe Haze Pollution in the Sichuan Basin, Southwest China. *Aerosol and Air Quality Research*, 20: 2557–2567.
- Yang, X., Yi, J., Lu, Y., Liu, Z., Wang, S., Lu, S., Zhang, X., Wu, K., and **Wang, H.** (2020). Characteristics and formation mechanism of a severe O₃ episode in Chengdu and surrounding areas. *China Environmental Science*, 40(05):2000-2009. (In Chinese)
- Lei, Y., Zhang, X., Kang, P., **Wang, H.**, Qing, Q., Ou, Y., Lu, N., and Deng, Z. (2020). Analysis of Transport Pathways and Potential Sources of Atmospheric Particulate Matter in Zigong, in South of Sichuan Province. *Environmental Science*, 41(07):3021-3030. (In Chinese)
- Pan, W., Zhang, Y., Ruan, Y., Meng, L., Xie, B., Zhang, Z., Xiang, W., **Wang, H.**, and Wen, X. (2020). Analysis of PM_{2.5} characteristics and the correlation with pollution parameters in Sichuan Basin. *Environmental Science & Technology*, 43 (S2):29-38. (In Chinese)

2019

- Chen, Z., Yang, X., Gu, S., Wu, K., **Wang, H.**, Wang, S., Wang, K., Zhang, G., Jia, Y., Kong, L., and Zhao, Y. (2019). Spatiotemporal variations and trend analysis of OMI satellite-based tropospheric formaldehyde over China. *Acta Scientiae Circumstantiae*, 39(9):2852-2859. (In Chinese)
- Gu, S., Yang, X., Lu, S., Wu, K., Chen, Z., Fan, W., **Wang, H.**, Zhang, F., He, M., and Liu, T. (2019). Spatiotemporal variations in OMI satellite-based tropospheric formaldehyde in Sichuan Basin. *Acta Scientiae Circumstantiae*, 39(9):2860-2872. (In Chinese)

2018

- Wu, K., Kang, P., Yu, L., Gu, S., Wen, X., Wang, Z., Chen, Y., Chen, S., Zhao, S., **Wang, H.**, and Wang, S. (2018). Pollution status and spatio-temporal variations of ozone in China during 2015—2016. *Acta Scientiae Circumstantiae*, 38(6):2179-2190. (In Chinese)

CONFERENCE

2020.10

The 6th International Symposium on RAQM & The 2nd Guangdong-Hong Kong-Macao GBA Air Forum

Poster: Formation mechanism of persistent ozone episode in Pearl River Delta during a heat wave event: Role of biogenic VOC emissions