

CURRICULUM VITAE

YUEYA WANG

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Academic Qualifications

- 2010 – 2014 B.S. Atmospheric Sciences Lanzhou University, China
- 2014 – 2017 M.S. Atmospheric Sciences Lanzhou University, China
Thesis: *Application of two ensemble-based methods to the simulations of two convective cases*
- 2019 – 2023 Ph.D. Atmospheric Environment Sciences The Hong Kong University of Science and Technology,
Committee: Zhizhao LIU(chair), Jimmy FUNG, Hui SU, Xiaoming SHI, Eun Soon IM
Dissertation: *Improving the Prediction and Understanding of South China's Extreme Rainfall*

Present Academic Positions

- 2023 October – present Postdoc Fellow
Division of Environment and Sustainability
Hong Kong University of Science and Technology, HKSAR

Relevant Research Work

- HKJCCTPDF24IS02 *Quantifying the Impacts of Climate and Air Quality Changes on Extreme Events with Deep Learning and Numerical Models*
(2023-present) Postdoctoral researcher

Publication Records

- [1] **Wang, Y.**, X. Shi, Lei L., and J. C. Fung., (2022). Wang, Y., Shi, X., Lei, L., & Fung, J. C. H. (2022). Deep learning augmented data assimilation: Reconstructing missing information with convolutional autoencoders. *Monthly Weather Review*, 150(8), 1977-1991.
- [2] Shi, X., & **Wang, Y.**, (2022). Impacts of Cumulus Convection and Turbulence Parameterizations on the Convection-Permitting Simulation of Typhoon Precipitation. *Monthly Weather Review*, 150(11), 2977-2997.
- [3] **Wang, Y.**, Zhang, Z., Chow, W. S., Wang, Z., Yu, J. Z., Chi-Hung Fung, J., & Shi, X., (2023). Investigating the Effect of Aerosol Uncertainty on Convective Precipitation Forecasting in South China's Coastal Area. *Journal of Geophysical Research: Atmospheres*, e2023JD038694.
- [4] Shi, X., Y. Liu, J. Chen, H. Chen, **Y. Wang**, Z. Lu, R.Q. Wang, J. Fung, C. W.W. Ng., (2024). Escalating Tropical Cyclone Precipitation Extremes and Landslide Hazards

in South China under Global Warming. *npj Climate and Atmospheric Science*, 7, 107.

- [5] **Wang, Y.**, Li, H., Shi, X., & Fung, J. C., (2025). Assessing the impact of cumulus convection and turbulence parameterizations on typhoon precipitation forecast. *Geophysical Research Letters*, 52(1), e2024GL112075..

Awards

- National Encouragement scholarship. Lanzhou University. 2011-2012.
- Excellent Student Leader. Lanzhou University. 2011-2012.
- Graduate with Honors. Lanzhou University. 2013.
- First Prize of Excellent Graduate Scholarship. Lanzhou University. 2013-2015.
- UGC Research Travel Grant. The Hong Kong University of Science and Technology. 2022.
- Oversea Research Award. The Hong Kong University of Science and Technology. 2022
- Hong Kong Meteorological Society's Zhu Kezhen Prize. 2022.
- HK JC Jokey Club Global Stem Postdoc Fellowship, 2024.