Zhangyu Sun **Curriculum Vitae**

PhD student

Graduate Division of Earth and Atmospheric Sciences

The Chinese University of Hong Kong

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EDUCATION

The Chinese University of Hong Kong, China *2021 - Present*

PhD student in Earth and Atmospheric Sciences

Technical University of Munich, Germany *2019 - 2021*

Double-degree Master in Earth Oriented Space Science and Technology

Wuhan University, China *2018 - 2021*

Master in Geodesy and Geomatics, School of Geodesy and Geomatics

Wuhan University, China *2014 - 2018*

Bachelor in Navigation Engineering, School of Geodesy and Geomatics

RESEARCH INTERESTS

- Rock glacier
- Cryosphere
- Deep learning applications in earth system science

PUBLICATIONS

1. **Sun, Z.**, Zhang, B., & Yao, Y. (2021). Improving the Estimation of Weighted Mean Temperature in China Using Machine Learning Methods. Remote Sensing, 13(5), 1016.

2. **Sun, Z.**, Zhang, B., & Yao, Y. (2019). An ERA5-based model for estimating tropospheric delay and weighted mean temperature over China with improved spatiotemporal resolutions. Earth and Space Science, 6(10), 1926-1941.

3. **Sun, Z.**, Zhang, B., & Yao, Y. (2019). A global model for estimating tropospheric delay and weighted mean temperature developed with atmospheric reanalysis data from 1979 to 2017. Remote Sensing, 11(16), 1893.

4. Yao, Y., **Sun, Z.**, & Xu, C. (2018). Establishment and Evaluation of a New Meteorological Observation-Based Grid Model for Estimating Zenith Wet Delay in Ground-Based Global Navigation Satellite System (GNSS). Remote Sensing, 10(11), 1718.

5. Yao, Y., **Sun, Z.**, Xu, C., Zhang, L., & Wan, Y. (2018). Development and Assessment of the Atmospheric Pressure Vertical Correction Model With ERA-Interim and Radiosonde Data. Earth and Space Science, 5(11), 777-789.

6. Yao, Y., **Sun, Z.**, Xu, C., Xu, X., & Kong, J. (2018). Extending a model for water vapor sounding by ground-based GNSS in the vertical direction. Journal of Atmospheric and Solar-Terrestrial Physics, 179, 358-366.

HONORS AND AWARDS

- Hong Kong PhD Fellowship *2021*
- National Graduate Scholarship of China *2019*
- Leijun Scholarship, Wuhan University *2019*
- Outstanding Graduate Student, Wuhan University *2019*
- Outstanding Undergraduate Student, Wuhan University *2018*
- Lei Jun Scholarship, Wuhan University *2017*
- Yu Gang Song Xiao Scholarship, Wuhan University *2016*
- National Scholarship of China *2015*