Zhangyu Sun **Curriculum Vitae**

PhD candidate

Graduate Division of Earth and Atmospheric Sciences

The Chinese University of Hong Kong

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EDUCATION

Graz University of Technology, Austria *2024.01 - Present*

Visiting PhD candidate in Remote Sensing and Photogrammetry

The Chinese University of Hong Kong, China *2021.09 - Present*

PhD student in Earth and Atmospheric Sciences

Technical University of Munich, Germany *2019.10 – 2020.06*

Double-degree Master in Earth Oriented Space Science and Technology

Wuhan University, China *2018.09 – 2021.06*

Master in Geodesy and Geomatics, School of Geodesy and Geomatics

Wuhan University, China *2014.09 – 2018.06*

Bachelor in Navigation Engineering, School of Geodesy and Geomatics

RESEARCH INTERESTS

- Rock glacier
- Deep learning
- Interferometric Synthetic Aperture Radar (InSAR)
- Photogrammetry

PUBLICATIONS

1. **Sun, Z.**, Hu, Y., Racoviteanu, A., Liu, L., Harrison, S., Wang, X., ... & Yuan, H. (2024). TPRoGI: a comprehensive rock glacier inventory for the Tibetan Plateau using deep learning. Earth System Science Data Discussions, 2024, 1-32.
2. **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.
3. **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.
4. **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.

5. 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.
6. 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.
7. 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.

CONFERENCES

1. **Sun, Z.**, Liu, L., Hu, Y., & Fan, C. (2024). Assessing rock glacier velocities on the Tibetan Plateau using satellite SAR interferometry (No. EGU24-3349). Copernicus Meetings.
2. **Sun, Z.**, Hu, Y., Liu, L., Racoviteanu, A., & Harrison, S. (2023). Mapping and inventorying rock glaciers on the Tibetan Plateau from Planet Basemaps using deep learning (No. EGU23-6816). Copernicus Meetings.
3. **Sun, Z.**, Hu, Y., Liu, L., Racoviteanu, A., & Harrison, S. (2022, December). Mapping Rock Glaciers on the Tibetan Plateau from Planet Basemaps Using Deep Learning. In Fall Meeting 2022. AGU.

HONORS AND AWARDS

- Ernst Mach Grant fellowship *2023*
- 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*