

Mr. Junfei Wu

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Octagon Castle, Hangzhou City, Zhejiang, China (311100)

EDUCATION

Lanzhou University	(Ranked 134th in Geosciences Worldwide)	Lanzhou, China
MSc in Physical Geography, Average Score: 85.65/100		Sep. 2019 - Jun. 2022
<ul style="list-style-type: none">Thesis: <i>Evaluation of Reanalysis Snow Depth Datasets and Retrieval of Snow Depth Based on Passive Microwave Data in Selin Co and Nam Co Regions</i>Advisor: Prof. Tandong Yao (AGU Fellow)		
Institute of Tibetan Plateau Research , Chinese Academy of Sciences (ITPCAS)		Beijing, China
Joint MSc Program with Lanzhou University		Sep. 2019 - Jun. 2022
<ul style="list-style-type: none">Advisor: Prof. Tandong Yao		
Lanzhou University		Lanzhou, China
BSc in Physical Geography and Resources and Environment, GPA: 4.04/5		Sep. 2015 - Jun. 2019
<ul style="list-style-type: none">Thesis: <i>Review of the Forming Conditions of Avalanche Research</i>Advisor: Prof. Tandong Yao		

PROFESSIONAL EXPERIENCE

DiDi Global Company (Leading Online Taxi Booking Service in China)	Hangzhou, China
Data Product Manager	Jul. 2022 - Present
<ul style="list-style-type: none">Analyzed customer behavior patterns using extensive datasets to inform data-driven decisions.Designed and optimized a big data ETL (extraction, transformation, and loading) platform.Awarded the Outstanding Trainer Award for exceptional contributions to training in 2024.	

PUBLICATIONS

[1] Yufeng Dai, Tao Wang, Yongwei Sheng, Lei Wang, Hongbin Chen, Xiaowen Zhang, Xiangyu Li, Weicai Wang, Junfei Wu, Wenfeng Chen, Tandong Yao. “*Westerly-triggered lake-effect snowfall enhanced with climate warming over the Tibetan Plateau*”. *Science Bulletin*, 69. 7 (2024): 968-977.

[2] Junfei Wu, Tandong Yao, Yufeng Dai, Wenfeng Chen. “*Evaluation of Passive Microwave Snow-Depth Retrieval Algorithm in Selin Co and Nam Co*”. *Remote Sensing Technology and Application*, 37. 6 (2022): 1339-1349.

[3] Panpan Ji, Jianhui Chen, Aifeng Zhou, Rui Ma, Ruijin Chen, Shengqian Chen, Feiya Lv, Guoqiang Ding, Yan Liu, and Fahu Chen. “*Biofuels reserve controlled wildfire regimes since the last deglaciation: A record from Gonghai Lake, North China*”. *Geophysical Research Letters*, 48. 16 (2021): e2021GL094042. —Acknowledged for significant contributions to data analysis.

SELECTED SCHOLARSHIPS&AWARDS

• Third Prize Scholarship for Graduate Students (\$1,200, awarded three times, Top 50%)	2019 - 2022
• Excellent Award in the National University Meteorology Knowledge Competition (Top 10%)	2018
• First Prize Scholarship for Undergraduate Students (\$400, awarded twice, Top 10%)	2017 - 2018
• Third Prize Scholarship for Undergraduate Students (\$200, Top 30%)	2016

RESEARCH EXPERIENCE

Graduate Research Assistant, ITPCAS

Beijing, China

Advisor: Prof. Tandong Yao

2021 - 2022

- **Project Title:**
 - *Evaluation of Reanalysis Snow Depth Datasets and Retrieval of Snow Depth Based on Passive Microwave Data in Selin Co and Nam Co Regions*
- **Highlights:**
 - Constructed field meteorological stations to collect snow depth and other relevant data.
 - Evaluated the accuracy of snow depth derived from passive microwave data and reanalysis datasets (ERA5, GLDAS, JRA55, MERRA2) in the study area.
 - Applied advanced machine learning techniques (random forest regression, support vector regression) for snow depth retrieval, replacing traditional linear regression methods.
- **Outcomes:**
 - Published findings in *Remote Sensing Technology and Application* (Chinese Journal) in 2022.
 - Co-authored a paper published in *Science Bulletin* in 2024, with contributions to data collection and processing.

Undergraduate Research Assistant, College of Earth and Environmental Sciences, Lanzhou University

Lanzhou, China

Mentor: Prof. Guan Chen

2018

- **Project Title:**
 - *Land Subsidence in Mountain-Cutting Areas: A Case Study from Lanzhou New District*
- **Highlights:**
 - Compared the microstructures of soil samples from varying depths in both natural and mountain-cutting areas using a Scanning Electron Microscope.
- **Outcomes:**
 - Found that soil in mountain-cutting areas exhibited more structural damage and higher moisture content compared to natural areas, indicating a higher potential risk for subsidence.

TRAINING WORKSHOP

Glacio-hydrological Modelling Using the Spatial Processes in Hydrological Model (SPHY)

Beijing, China

Trainers: Prof. Arthur Lutz and Dr.Sonu Khanal, FutureWater, The Netherlands

14 - 18 Oct. 2019

- Mastered the principles of a Python-based model through self-study after the training.
- Simulated surface runoff fluctuations across various spatiotemporal scales for the Selin Co and Nam Co regions.

RELEVANT SERVICES

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| • Volunteered at the National Geoscience Education Conference | Lanzhou, China | 25 - 27 Sep. 2020 |
| • Coordinated the Third Pole Environment (TPE) Science & Technology Training | Chengdu, China | 12 - 23 Aug. 2019 |
| • Volunteered at Annual Conference of The China Society on Tibetan Plateau | Nyingchi, China | 8 - 10 Aug. 2018 |

SKILLS

Languages: English (IELTS 6.5, expired, currently renewing); Mandarin (Native)

Professional Software: ArcMap (Advanced), QGIS (Proficient), ENVI (Intermediate), SPSS (Intermediate)

Programming Languages: SQL (Advanced), Python (Proficient), Markdown (Intermediate), MATLAB (Intermediate)