MSc. Fujun Wang

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RESEARCH INTERESTS

My research interests focus on exploring the links between climate, erosion, and long-term landscape evolution utilizing low-temperature thermochronology and novel numerical methods combined with geomorphic data. Study areas mainly refer to the western Tarim Basin, Pamir, and Tianshan.

EDUCATION

PhD student in Thermochronology, University of Potsdam, Germany **03/2023- Present**
Topic: How did the Cenozoic Pamir - Tianshan convergence impact the Neotethys regression and Tarim aridification?
Supervisors: Prof. Peter van der Beek & Prof. Edward Sobel

Master of Science in Structural Geology, Nanjing University, China **09/2018-06/2022**
Dissertation: Late Mesozoic Intracontinental Deformation and Magmatism of the North Tianshan and Junggar Basin
Supervisor: Prof. Wenbin Zhu

Bachelor in Geology, Chang'an University, China **09/2014-06/2018**
Dissertation: Element mobility during hydrothermal alteration of the Ziyugou Rb-rich pegmatites in North Qinling Orogen, China
Supervisor: Dr. Yonggang Feng

TEACHING EXPERIENCES

Teaching Assistant, Nanjing University, China **09/2022-02/2023**
Bachelor Course: Structural Geology, Geology Field Camp

Teaching Assistant, Nanjing University, China **09/2020-06/2021**
Bachelor Course: Structural Geology

RESEARCH EXPERIENCES

- Coupling interaction between tectonics, climate, and erosion of the Pamir **07/2022-present**
- Exhumation and preservation of porphyry deposit in the West Junggar, NW China **10/2020-06/2022**
- Late Mesozoic sedimentary provenance of the southeastern Junggar, NW China **01/2019-03/2021**
- Late Mesozoic tectono- magmatic event in Tianshan Orogen, NW China **08/2018-06/2021**

FIELD PRACTICE

- Geological investigation of circum-Tarim Basin and Junggar Basin, China **08/2018-10/2022**
- Drill core recording of Jiajika pegmatites in the Eastern Tibetan Plateau, China **08/2020-10/2021**
- Geological mapping of the East Qinling area in Shannxi Province, China **05/2016-07/2017**

SKILLS

- **Experimental Technique:** SEM, BSE, XRF, ICP-MS, MC-ICP-MS, LA-MC-ICP-MS
- **Professional Software:** HeFTy, IsoPlot, Fast Track, CorelDraw, MapGIS, QGIS

Workshops & Conferences

Workshops:

University of Potsdam, Germany **02/2025**

- Topic: Doctoral Seminar
- Presentation: *Late Cenozoic Pamir-Tianshan convergence recorded by Low-temperature thermochronology*

University of Camerino, Italy **01/2025**

- Topic: cross-section construction in fold and thrust belts using 3D Move

University of Potsdam, Germany **06/2024**

- Topic: MinPet Seminar
- Presentation: *First identification of Late Mesozoic intraplate magmatism in the Chinese Tianshan*

University of Potsdam, Germany **01/2024**

- Topic: SMURF Seminar
- Presentation: *How did the Cenozoic Pamir - Tianshan convergence impact the Neotethys regression and Tarim aridification?*

University of Potsdam, Germany **10/2023**

- Topic: Workshop on combining fold-and-thrust belt kinematics with thermochronology

University of Pavia, Italy **09/2023**

- Topic: Dynamics and Sedimentary Systems in Collisional Zones
- Presentation: *How to converge between the South Tianshan and North Pamir*

Conferences:

19th International Conference on Thermochronology, Japan **09/2025**

- Poster: *Late Cenozoic convergence between the Pamir and the Tianshan recorded by zircon and apatite (U-Th-Sm)/He thermochronology*

19th International Young Geomorphology Meeting 2025, Germany **06/2025**

- Poster: *The Role of Late Cenozoic Pamir–Tianshan Convergence in the Onset of the Taklamakan Desert*

EGU General Assembly 2024, Austria **04/2024**

- Poster: *New Constraints on Late Cenozoic Convergence between the Pamir and South Tianshan from Apatite (U-Th-Sm)/He Thermochronology*

Annual Meeting of Chinese Geoscience Union (CGU), China **09/2022**

- Presentation: *Late Mesozoic tectono-magmatic evolution of the Chinese Tianshan and adjacent areas*

PUBLICATIONS

1. Luo, M., He, Z., **Wang, F.,** Zhang, Y., Pang, J., Wang, Y., ... & Zhu, W. (2025). Tectono-thermal evolution of the Kanggur-Huangshan shear zone, Chinese Tianshan: Insights from integrated geochronology and thermochronology**.** ***Journal of Asian Earth Sciences***, 106560.
2. **Wang, F.,** He, Z., Ge, R., Luo, M., Zheng, B., Zhang, Z., ... & Zhu, W. (2024). First identification of Late Mesozoic intraplate magmatism in the Chinese North Tianshan: Implications for the orogenic architecture and crustal evolution. ***Journal of the Geological Society***, jgs2023-176.
3. **Wang, F.,** Luo, M., He, Z., Wang, Y., Zheng, B., Zhang, Z., ... & Zhu, W. (2024). Mid-Cretaceous Accelerated Cooling of the Beishan Orogen, NW China: Evidence from Apatite Fission Track Thermochronology. ***Lithosphere***, 2023(Special 14), lithosphere_2023_239.
4. **Wang, F.,** Sobel, E. R., van der Beek, P., Zhu, W., Colleps, C., Gong, L., ... & Glodny, J. (2024). New Constraints on Late Cenozoic Convergence between the Pamir and South Tianshan from Apatite (U-Th-Sm)/He Thermochronology (No. EGU24-11185). ***EGU Copernicus Meetings***.
5. He, Z., Song, S., **Wang, F.,** Zhu, W., Shen, X., Glorie, S., ... & De Grave, J. (2024). Late Mesozoic intracontinental reactivation of the southern Altai, Central Asia. ***GSA Bulletin.***
6. He, Z., Glorie, S., **Wang, F.,** Zhu, W., Fonseca, A., Su, W., ... & De Grave, J. (2023). A re-evaluation of the Meso-Cenozoic thermo-tectonic evolution of Bogda Shan (Tian Shan, NW China) based on new basement and detrital apatite fission track thermochronology. ***International Geology Review***, 65(13), 2093-2112.
7. Luo, M., He, Z., **Wang, F.,** Zhu, W., Li, G., De Grave, J., ... & Zhang, Y. (2023). Exhumation and preservation of the Tianyu Cu-Ni deposit constrained by low-temperature thermochronology: Insights into the thermo-tectonic history of the Chinese Eastern Tianshan. ***Ore Geology Reviews***, 154, 105309.
8. **Wang, F.,** Luo, M., He, Z., Ge, R., Cao, Y., Grave, J. D., & Zhu, W. (2022). Late Mesozoic intracontinental deformation and magmatism in the Chinese Tianshan and adjacent areas, Central Asia. ***GSA Bulletin***, 134(11-12), 3003-3021.
9. **Wang, F.,** Lu, Y., Zheng, B., Ge, R., Diao, Z., & Zhu, W. (2021). Deformation features of the Neoproterozoic blue schists terrane in the Wushi-Aksu area. ***Acta Geologica Sinica***, 95(5), 1414-1425.
10. Zhu, W., **Wang, F.,** Cao, Y., & Wang, S. (2020). Tectono-magmatic events in Tianshan Mountains and adjacent areas during Yanshanian Movement period. ***Acta Geologica Sinica***, 94, 1331-1346.