

RESEARCH INTEREST

Tectonic Geomorphology, Thermochronology, Geochronology, Tectonics, Structural Geology, Sedimentology, Source-to-Sink, Basin Analysis, Surface Processes, Field Geology, Glacial and Fluvial Geomorphology

EDUCATION

2020 - Institute of Geosciences, University of Potsdam

PhD student in General Geology, Supervisors: Prof. Peter van der Beek, apl. Prof. Edward Sobel

Topic: Surface uplift, exhumation and drainage evolution of the Central Tian Shan, Kyrgyzstan

2017 - 2020 China University of Geosciences, Beijing

M.S. in Structural Geology, Supervisor: Prof. Dan-Ping Yan

Thesis title: Fission Track and (U-Th)/He constraints on Min Shan tectonic deformation: Implication for the Cenozoic growth of the northeastern Tibetan Plateau

2013 - 2017 China University of Geosciences, Beijing

B.S. in Geoscience, GPA: 3.72/4.00

FIELD EXPERIENCE

2023 Central Tian Shan, Kyrgyzstan, 2.5 weeks

2023 Harz, Germany, 4 days

2022 Carpathian, Romania, 1.5 weeks

2022 Austrian Alps, Austria and Italy, 1 week

2021 Central Tian Shan, Kyrgyzstan, 3 weeks

2019 - 2020 Western and Eastern Qinling, China, 7 weeks in total

2016 - 2018 Northeastern Tibetan Plateau and Sichuan Basin, China, 10 weeks in total

LABORATORY EXPERIENCE

2023 - Apatite fission track sample preparation and counting, Universität Potsdam, Germany

2022 - Apatite and zircon (U-Th-Sm)/He sample picking and packing, Universität Potsdam, Germany

2022 - Rock sample processing to single mineral, Universität Potsdam, Germany

2018 - 2019 LA-ICP-MS Zircon U-Pb dating, China University of Geosciences, China

2017 Apatite and Zircon Fission-track sample preparation and counting, ISTERre, Université Grenoble Alpes, France

SOFTWARE & CODING SKILLS

ArcGIS, QGIS, MATLAB, Topotoolbox, TAK, Pecube, PecubeGUI, LaTeX, Python, CorelDRAW, Inkscape, Microsoft Office

LANGUAGE SKILLS

Chinese (mother tongue), English (advanced: C1), German (basic to intermediate: A2)

TEACHING EXPERIENCE

2023 Teaching assistant, Introduction to Geosciences II, Geological mapping (Harz), University of Potsdam, 4 days

2018 Teaching assistant, China University of Geosciences, Beijing, Short course on Thermochronology, 1 week

CONFERENCE CONVENING

2024 **TS 4.2** – Deciphering tectonic evolution, exhumation and weathering: advancements in thermochronology and interdisciplinary approaches, EGU General Assembly 2024, *co-convenor*

2024 **GM 2.3** – Dates, Rates and Bytes: advances in cosmogenic nuclides and other geochronological techniques to quantify surface processes and landscape dynamics, EGU General Assembly 2024, *co-convenor*

2023 - Doctoral Seminar, Institute of Geosciences, University of Potsdam, *co-organizer*

2023 **GD9.1** – The Tethyan Belt, Central Asia, and Circum Pacific margins: Formation, Evolution, Structure, Topography, and Resources, EGU General Assembly 2023, *co-convenor*

SELECTED AWARDS & HONORS

- 2023 Student Poster Award, 18th International Conference on Thermochronology, Riva del Garda, Italy
- 2017-2019 First Prize Scholarship of Academic Merit, China University of Geoscience, Beijing, China
- 2015 First Prize of the National University Student Innovation Program, China University of Geoscience, Beijing, China

CONFERENCE PRESENTATIONS

- 2024 **Gong, L.**, van der Beek, P., Sobel, E., Schildgen, T., Mariotti, A., Bernard, M., & Glodny, J., Late Cenozoic deformation and glacial imprint on the Terskey Range, Kyrgyzstan. EGU General Assembly 2024, GM8.1, EGU24-14635, *Oral*
- 2023 **Gong, L.**, Surface process and exhumation of the southern Central Tian Shan, Kyrgyzstan, International Winter School 2023 - Dynamics and Sedimentary Systems in Collisional Zones, University of Pavia, Pavia, Italy, *Oral*
- 2023 **Gong, L.**, van der Beek, P., Sobel, E., Schildgen, T., Mariotti, A., & Glodny, J., Meso-Cenozoic evolution of the southern Central Tian Shan, based on apatite and zircon (U-Th)/He thermochronology, 18th International Conference on Thermochronology, *Oral & Poster*
- 2023 **Gong, L.**, van der Beek, P., Schildgen, T., Sobel, E., & Racano, S. Drainage development in an intra-continental mountain belt: A case study from the central South Tian Shan, PhD Seminar, Institute of Geosciences, University of Potsdam, *Oral & Poster*
- 2023 **Gong, L.**, van der Beek, P., Schildgen, T., Sobel, E., & Racano, S. Drainage development in an intra-continental mountain belt: A case study from the southern Central Tian Shan, EGU General Assembly 2023, GM9.1, EGU23-5117, *Poster*
- 2018 **Gong, L.**, Yan, D., Berner, M., Lu, S., Qiu, L., & Mu, H. Exhumation history of the Min Shan, northeastern-most Tibetan Plateau, constrained by low-temperature thermochronology, EGU General Assembly 2018, GM4.1/SSP3.21/TS4.9, EGU2018-11982, *Oral*

MANUSCRIPT IN REVIEW

- Gong, L.**, van der Beek, P., Schildgen, T. F., Sobel, E. R., Racano, S., & Mariotti, A. Drainage development in an intra-continental mountain belt: A case study from the southern Central Tian Shan.
<https://egusphere.copernicus.org/preprints/2024/egusphere-2023-2651/>

MANUSCRIPT IN PREPARATION

- Gong, L.**, van der Beek, P., Sobel, E., Schildgen, T., Mariotti, A., Bernard, M., & Glodny, J., Late Cenozoic deformation and glacial imprint on the Terskey Range, Kyrgyzstan.
- Gong, L.**, van der Beek, P., Sobel, E., Schildgen, T., Mariotti, A., & Glodny, J., Meso-Cenozoic evolution of the southern Central Tian Shan, based on apatite and zircon (U-Th)/He thermochronology
- Gong, L.**, Yan, D. P., Berner, M., Qiu, L., Mu, H., & Kong, R. Growth of the NE-most Tibetan Plateau by the Minshan fault-related fold dominated in-sequence imbricated thrust system: structural and geochronological constraints.
- Mariotti, A., Schildgen, T., Sobel, E., Bernard, M., **Gong, L.**, van der Beek, P., & Glodny, J., Impact of glaciations on the exhumation history of the Kyrgyz Range - Western Tien Shan (Kyrgyzstan).

SELECTED PEER-REVIEWED & PUBLICATIONS

- Gong, L.**, van der Beek, P., Schildgen, T. F., Sobel, E. R., Racano, S., & Mariotti, A. (2024). Drainage development in an intra-continental mountain belt: A case study from the southern Central Tian Shan. *EGUsphere*, 2024, 1-34
- Zhang, Y., Yan, D. P., Qiu, L., **Gong, L.**, & Shao, Y. (2023). Stepwise growth of the southeastern Tibetan Plateau: Structural and thermochronological evidence from the Panxi tectonic belt. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 111542.
- Qiu, L., Yan, D. P., Tang, S. L., Chen, F., **Gong, L.**, & Zhang, Y. X. (2019). Cenozoic exhumation of the Neoproterozoic Sanfang batholith in South China. *Journal of the Geological Society*, jgs2019-041.
- Mu, H., Yan, D. P., Qiu, L., Yang, W. X., Kong, R. Y., Gong, L., & Li, S. (2019). Formation of the Late Triassic western Sichuan foreland basin of the Qinling Orogenic Belt, SW China: Sedimentary and geochronological constraints from the Xujiahe Formation. *Journal of Asian Earth Sciences*, 183, 103938.

REFERENCES

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