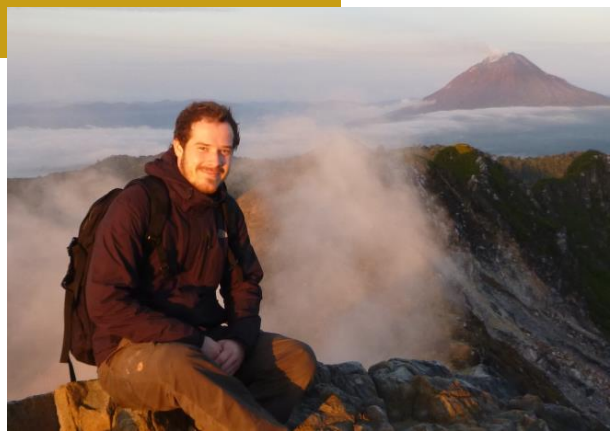
Julian Alfing



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Brief Summary

The evolution of plate tectonics in Earth's history and how a precursor tectonic system operated on Earth are key outstanding questions in Earth Sciences. However, only few P-T-age data are available for crustal metamorphism prior to the Neoarchean (>2.8 Ga). As metamorphic rocks are a primary source of information for investigating Earth's tectonic processes, I study Archean metamorphic rocks (e.g., Ukrainian Shield and Narryer Terrane) to constrain P-T-age information together with isotopic data recording age and crustal evolution.

Education:
B.Sc. and M.Sc. Geosciences, University of Münster, Germany

Research interests: metamorphic geology, geochronology, P-T-t-d paths, (isotope) geochemistry

Thesis title: Deciphering the tectonic record of the early Earth

Supervisors: A/Prof. Tim Johnson, Prof. Chris Clark, Dr. Kai Rankenburg

Publications:

Alfing, J., Bröcker, M., Setiawan, N. I.: Rb-Sr geochronology of metamorphic rocks from the Central Indonesian Accretionary Collision Complex: Additional age constraints for the Meratus and Luk Ulo complexes (South Kalimantan and Central Java), Lithos, 2021.

Alfing, J., Patzek, M., Bischoff, A.: Modal abundances of coarse-grained (>5 µm) components within CI-chondrites and their individual clasts – Mixing of various lithologies on the CI parent body(ies), Geochemistry, 2019.

Links:
https://www.researchgate.net/profile/Julian-Alfing
https://scholar.google.com/citations?user=YIQPHI0AAAAJ&hl=de&oi=ao