



Louis Müller

Geosciences M.Sc.

Mentor for M.Sc. Planetary Sciences and Space Exploration

Contact

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Education

01/2023 - on-going	Geology M.Sc. University of Iceland
10/2021 - on-going	Geosciences M.Sc. Freie Universität Berlin
04/2017 - 04/2021	Geosciences B.Sc. Albert-Ludwigs-University, Freiburg
10/2016 - 03/2017	Geosciences B.Sc. Freie Universität Berlin
08/2011 - 01/2012	Exchange program to Mission High School, San Francisco
08/2006 - 04/2014	Königin-Luise-Schule, Cologne – Abitur 2,7

Languages

German (native)
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Englisch (C2)
+ + + + +

Japanese (A1)
+

Work

04/2022 - 02/2023	Student Mentor - Freie Universität Berlin
12/2020 - 10/2021	Technical lab assistant/research assistant – Geology Department Albert-Ludwigs- University, Freiburg
08/2018 - 11/2020	Student research assistant – Geology Department Albert-Ludwigs-University, Freiburg
05/2017 - 07/2018	Artjamming – service/assistant, Freiburg
11/2016 - 03/2017	Zeit für Brot – service/bakery assistant, Berlin
06/2015 - 10/2016	Buergerlich – service job Cologne

Software skills

ArcGis	(advanced)
Illustrator	(advanced)
Photoshop	(advanced)
Matlab	(intermediate)
TranAX 3	(intermediate)
Python	(intermediate)

Technical skills

Driving Licens - vehicle up to 3.5 t

Production of thin sections - sawing, grinding, lapping, polishing and glueing

Split-Hopkins pressure bar - sample and experiemental preperation.

Bachelor courses and trips of relevance

Structure and morphology of orogens, Structure geology and tectonics, Geophysics, Mapping excursion Elba 2018, Mapping excursion Eschwege 2017, Wyoming, USA field trip 2022.

Bachelor Thesis

„Microstructural investigation of newly discovered small impact craters in WY, USA“

Publications

Dörfler, M. A., Krietsch, H., Hergarten, S., Kenkmann, T., Rae, A. S. P., **Müller, L.** (2020): Roughness of Fracture Surfaces under Quasi-static and Dynamic Deformation Conditions. TSK Conference Cologne (abstract)

T. Kenkmann, **L. Müller**, A. Fraser, D. Cook, K. Sundell, A. S.P. Rae (2022): Secondary cratering on Earth: The Wyoming impact crater field. GSA Bulletin, 134 (9-10), 2469–2484. doi: <https://doi.org/10.1130/B36196.1>

Rae, A.S., Kenkmann, T., Padmanabha, V., Poelchau, M.H., Schäfer, F., Dörfler, M.A. and **Müller, L.**, (2022): Dynamic compressive strength and fragmentation in sedimentary and metamorphic rocks. Tectonophysics, 824, p.229221. doi: <https://doi.org/10.1016/j.tecto.2022.229221>

Rae, A. S. P., Kenkmann, T., Padmanabha, V., Schäfer, F., Poelchau, M. H., Dörfler, M., **Müller, L.** (2020): Strength and Fragmentation of Rocks at High Strain Rates. Conference, TSK Cologne (abstract)

Personal interests

Cooking, baking bread, painting and drawing.

Outdoor activities – hiking, swimming, skiing, trail running, wilderness survival, meditation

References

Prof. Dr. Thomas Kenkmann - mentor, B. thesis supervisor, head of the Geology department, Albertstr. 23-B, D-79104 Freiburg, Tel: +49(0)761/203-6495, thomas.kenkmann@geologie.uni-freiburg.de

Prof. Dr. Lena Noack - mentor, job supervisor, Head of Geodynamics and Mineral Physics of Planetary Processes group, Malteserstr. 74-100, Room D210, Building D, 12249 Berlin, Tel: +49 30 838 636 94, lana.noack@fu-berlin.de