

Paul Heckmann

Geoscientist / Data Scientist

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Göttingen, Germany

WORK EXPERIENCE

PhD Candidate

UiT The Arctic University of Tromsø in Norway

02/2018-07/2022

- Teaching assistant in Mineralogy, structural geology, and polarization microscopy
- Calibration of high-pressure/high-temperature laboratories
- Setup of mineral collection database
- Research on PhD project
- Visiting conferences in Bergen, Reykjavik and online

Research Stay

Institut des Science de la Terre d'Orléans in France

10/2019-03/2021

- Experimental studies using internally heated pressure vessels, scanning electron microscopes, laser ablation inductively coupled mass spectrometers and electron microprobe analyzer
- Data analysis and visualization using Python

PUBLICATIONS

- Heckmann, Paul, et al. "Petrogenesis of zoned and unzoned mafic pegmatites: An insight from the Palaeoproterozoic mafic-ultramafic Hamn intrusion, Northern Norway." *Lithos* 428 (2022): 106818.
<https://doi.org/10.1016/j.lithos.2022.106818>
- Heckmann, Paul, et al., "An experimental study of the effect of water on plagioclase nucleation and growth in mafic magmas: application to mafic pegmatites" (accepted in *EJM*).
- Determination of sulfur concentration at sulfide saturation via machine learning algorithms (in progress)
- Heckmann, Paul, et al., "Sulfur isotopes, trace element and textural analyses of base metal sulfides from the Paleoproterozoic mafic ultramafic Hamn intrusion, Northern Norway" (in progress).

EDUCATION

B.Sc. & M.Sc.

Geoscience

Georg-August-Universität

Göttingen

10/2011 – 02/2017

SKILLS

- Python (Pandas, SKlearn, Matplotlib, Altair, Streamlit)
- Snowflake
- SQL (PostgreSQL)
- Git
- HTML, CSS
- LaTeX

LANGUAGES

German

English (Fluent)

Norwegian (Basics)

Spanish (Basics)