

# Paul Heckmann

## Geoscientist / Data Scientist

[paul.he@posteo.de](mailto:paul.he@posteo.de)  
[www.paulheckmann.de](http://www.paulheckmann.de)  
+49 15754362144  
Göttingen, Germany

## Work experience

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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

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- Heckmann, P., Palinkaš, S. S., Hansen, H., Iacono-Marziano, G., Rajič, K., Forien, M., and Bergh, S. G.: Petrogenesis of zoned and unzoned mafic pegmatites: An insight from the Palaeoproterozoic mafic-ultramafic Hamn intrusion, Northern Norway, *Lithos*, 428, 106818, 2022. <https://doi.org/10.1016/j.lithos.2022.1>
- Heckmann, P., Iacono-Marziano, G., and Strmić Palinkaš, S.: An experimental study of the effect of water and chlorine on plagioclase nucleation and growth in mafic magmas: application to mafic pegmatites, *European Journal of Mineralogy*, 35, 1111–1124, 2023. <https://doi.org/10.5194/ejm-35-1111-2023>
- 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

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B.Sc. & M.Sc.  
Geoscience  
Georg-August-Universität  
Göttingen  
10/2011 – 02/2017

## IT-skills

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- Python
- JavaScript
- Snowflake
- SQL (PostgreSQL)
- Git
- HTML, CSS
- LaTeX

## Languages

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Fluent

- German
- English

Basics

- Norwegian
- Spanish
- Italian