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Brief Summary

The alteration of mafic/ultramafic rock has been investigated in various studies with the focus on problems including CO₂ sequestration and generation of early life-supporting environments at mid ocean ridges. In addition to the former issues ultramafic rocks are also associated with economically important copper/nickel and PGE deposits. This project focusses on the experimental hydration and carbonation of ultramafic rocks. The aim of this study is a better understanding of element mobility during fluid-rock interaction which can be applied on ore formation and mid ocean ridge systems.

Education: BSc and MSc at the Leibniz University Hanover, Germany

Research interests: fluid-rock interaction, ore formation, alteration

Thesis title: Experimental hydration and carbonation reactions, element mobility and ore deposition

Supervisors: Prof. Andrew Putnis, Dr. Andreas Beinlich, Dr. Katy Evans