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Brief Summary

Fluid-rock interactions are important mechanisms influencing chemical and physical properties of the deep crust. The island of Holsnøy, SW Norway, represents one of the best locations in the world to study in-situ fluid-catalysed eclogitization and deformation of a granulite-facies complex. The aim of this PhD project is to complement detailed petrological, microstructural and geochemical data of these rocks, in order to better understand the processes, mechanisms and the role of deformation microstructures associated with UHP metasomatism.

Education:

Bachelor and Master in Geosciences at University of Padova, Italy;
(2017-2018) Temporary Research Fellow at Dipartimento di Geoscienze, University of Padova

Research interests:

(U)HT-HP metamorphism, microstructures, geochemistry, fluid-rock interaction, fluid/melt inclusions

Thesis title:

Metamorphic rocks at the nanoscale: microstructural and geochemical investigation of fluid catalysed eclogitic rocks

Supervisors: Prof. Steven Reddy, A/Prof. Chris Clark, Dr. David Saxey

Publications:

Tacchetto, T., Bartoli, O., Cesare, B., Berkesi, M., Aradi, L. E., Dumond, G. & Szabó, C. (2018). Multiphase inclusions in peritectic garnet from granulites of the Athabasca granulite terrane (Canada): evidence of carbon recycling during Neoproterozoic crustal melting. *Chemical Geology*. doi: 10.1016/j.chemgeo.2018.05.043.

Conferences:

2017 European Geoscience Union (EGU) General Meeting (Vienna); 2017 Lake Como School of Advanced Studies, Como (Italy); SIMP2017, Pisa (Italy); ECROFI2017, Nancy (France); 2016 "Fluids in the Earth", Naples (Italy)

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