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Brief Summary

The Albany-Fraser Orogen (AFO) is a palaeo-to-Mesoproterozoic orogenic belt that wraps around the southern margin of the Yilgarn Craton in southwestern Australia. Further east the belt is covered by the cenozoic sedimentary rocks of the Eucla Basin – covering ~1000 kms of basement rock between the West Australian and South Australian Cratons. Whereas the rocks of the AFO have been shown to record a protracted history of reworking of the Yilgarn Craton the Eucla basement on the other hand represents a huge tract of crust of unknown heritage. My PhD research is investigating the crustal evolution of the Albany-Fraser Orogen and Eucla basement through ‘campaign-style’ isotope geology and geochronology to help understand the role that both the AFO and Eucla basement played in the amalgamation of continental Australia.

Education: BSc and MSc at the University of Cape Town

Research interests: Isotope geology, geochronology, structural geology, fault-processes

Thesis title: Crustal Evolution of the Albany-Fraser Orogen and Eucla basement in southern western Australia

Supervisors: A/Prof Chris Kirkland, A/Prof, Chris Clark

Publications: Macey, P.H., Thomas, R.J., Minnaar, H.M., Gresse, P.G., Lambert, C.W., Groenewald, C.A., Miller, J.A., Indongo, J., Angombe, M., Shifotoka, G, Frei, D, Diener, J. F. A., Kisters, A.F.M, Dhansay, T., Smith, H., Daggart, S., Le Roux, P., **Hartnady, M. I.**, and Tinguely, C., 2017. Origin and evolution of the ~ 1.9 Ga Richtersveld Magmatic Arc, SW Africa. *Precambrian Research*, 292, pp.417-451.

Conferences: 2017 European Geoscience Union (EGU) General Meeting (Vienna) -2014 Igneous and Metamorphic Studies Group Conference (IMSG), Rhodes University (Grahamstown).