Brief Summary
In many early Mesoproterozoic supercontinent Nuna reconstructions, NE Australia is placed against NW Laurentia between 1.8 and 1.6 Ga. Thus, deciphering the thermal history of the eastern margin of the North Australian Craton is crucial for a better understanding of the assembly and breakup of Nuna. The Mt-Isa and Georgetown inliers are the two largest Proterozoic inliers in NE Australia. My study aims to explore potential terrane boundaries and determine the regional syn-(?) to post-orogenic cooling patterns along a W–E corridor across the two inliers. I will utilize high-temperature thermochronology methods, namely 40Ar/39Ar ages of biotite, muscovite, hornblende for reconstructing the Proterozoic thermal evolution of the Mt-Isa and Georgetown inliers. By improving our understanding of the crustal evolution of the eastern margin of northern Australia, I will provide new insights into the assembly and break-up of the supercontinent Nuna.

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