



## Jiangyu Li

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### 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  $40\text{Ar}/39\text{Ar}$  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.

**Education:** MSc at Chinese Academy of Geological Sciences, Beijing, China; BSc at Central South University, Changsha, China

**Research interests:** My interest including plate tectonics, thermochronology history reconstruction.

**Thesis title:** Proterozoic thermal evolution in North Queensland: insights for Nuna assemblage.

**Supervisors:** Prof. Zhengxiang Li, Dr. Amaury Pourteau, A/Prof. Fred Jordon

**Publications:** Li, J., Chen, X., Wang, Z., Chen, W., Li, C. and Huang, P., 2016. Late Palaeozoic mineralization and tectonic evolution of the West Junggar metallogenic belt, Central Asia: constraints from Re-Os and  $40\text{Ar}/39\text{Ar}$  geochronology. *International Geology Review*, pp.1-23.

**Links:** [https://www.researchgate.net/profile/Jiangyu\\_Li5](https://www.researchgate.net/profile/Jiangyu_Li5)