



Silvia Volante

Work Address: Bl. 314/room 168, Department of Applied Geology, Western Australian School of Mines, Curtin University, Perth, WA 6845, Australia.

Email: silvia.volante@postgrad.curtin.edu.au



Brief Summary

Recent Palaeo- to Mesoproterozoic palaeotectonic models for the supercontinent Nuna suggested connections between NE Australia and NW Laurentia. Decoding the Proterozoic tectonic histories of NE Australia is therefore critical for testing the proposed links.

This study aims to better constrain the tectono-metamorphic evolution of the Georgetown Inlier (GTI) by reconstructing and interpreting multi-point pressure-temperature-deformation-time (P-T-d-t) paths for different sectors of the Georgetown Inlier. During this work we will apply a multi-scale petro-structural analysis combined with P-T estimation, and geochronology (U-Pb in zircon and monazite). The outcome will be interpreted in terms of the number of tectonic terranes that constitute the GTI, the tectonic position and roles that the GTI played during the assembly of the supercontinent Nuna.

Education: MSc and BSc at Università Statale di Milano (UNIMI)

Research interests: Regional and structural geology, petrology, geochronology

Thesis title: A multi-scale structural and metamorphic study of the Georgetown Inlier, NE Queensland -- Implications for the assembly of the supercontinent Nuna

Supervisors: Prof. Zheng-Xiang Li, Dr. Amaury Pourteau, Prof. William Joseph Collins

Conferences: 2016 Tiger Conference (Perth) -2017 Rodinia 2017 (Townsville).

Link: https://www.researchgate.net/profile/Silvia_Volante
<https://www.linkedin.com/in/silvia-volante-1a6a57108/>