



## Daniel T. Brennan

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### Brief Summary

I grew up in Wisconsin, USA, surrounded by bluffs of Cambrian sandstones that were deposited during a major transgression following the Neoproterozoic rifting of Rodinia. Studying these rocks at UW-Eau Claire sparked my interest in tectonics and sedimentation. I was able to pursue this interest at Idaho State University for my M.S. degree. At Idaho State, I worked on a package of sedimentary rocks that were previously thought to be Lower Palaeozoic passive margin strata, but through geologic mapping and U-Pb detrital zircon analysis we now think are mostly Neoproterozoic and rift-related. While at Curtin, I aim to continue to study the tectonic history of Laurentia and potential Laurentian terranes to better understand their roles in Proterozoic supercontinent formation and evolution.

### Education:

B.S., Geosciences, University of Wisconsin-Eau Claire, 2016

M.S., Geosciences, Idaho State University, 2018

**Research interests:** Broadly my research interests include coupling field-based mapping, structural, and stratigraphic studies with geochronology to understand ancient regional and global scale tectonic events. I am interested in deciphering how Proterozoic processes may or may not vary from modern processes and what this means for how our dynamic Earth has changed through time.

**Thesis title:** *Examining the configuration and evolution of the supercontinents Nuna and Rodinia: Metamorphic, tectonostratigraphic, and geochemical analysis of the Clearwater Block, Elk City Region, Buffalo Hump Formation, and Rocky Cape Group*

**Supervisors:** Prof. Zheng- Xiang Li and Dr. Tim Johnson

### Publications:

Brennan, D.T., Link, P.K., Pearson, D.M., and Armstrong, T., in press, Geologic map of the, Custer County, Idaho: Idaho Geological Survey Technical Report, 1:24,000-scale.

Krohe, N., Brennan, D.T., Link, P.K., Pearson, D.M., and Armstrong, T., in press, Geologic map of the southern portion of the Clayton quadrangle, Custer County, Idaho: Idaho Geological Survey Technical Report, 1:24,000-scale.

### Links:

<https://www.linkedin.com/in/daniel-brennan-124750113/>

<https://scholar.google.com.au/citations?user=noOImNcAAAAJ&hl=en>