



## Madison Tripp

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### Brief Summary

My PhD research focuses on using organic geochemistry to study exceptionally preserved fossils, specifically in carbonate concretions, analysing for preserved biomolecules among other geochemical information, in order to obtain important information about extinct organisms and ancient palaeoenvironments.

**Education:** Bachelor of Science Major in Chemistry (First Class Honours) at Curtin University

**Research interests:** Carbonate concretions, exceptional preservation of fossils and biomolecules, Mazon Creek fossil flora and fauna.

**Thesis title:** Processes leading to exceptional soft-tissue preservation in Mazon Creek (Carboniferous) concretions: A combined palaeontological, organic and inorganic geochemical approach

**Supervisors:** Professor Kliti Grice and Associate Professor Marco Coolen

**Publications:** Grice K, Holman AI, Plet C, Tripp M. Fossilised Biomolecules and Biomarkers in Carbonate Concretions from Konservat-Lagerstätten. *Minerals*. 2019;9(3).

**Conferences:** Tripp M, Rickard W, Whiteside J, Gadd P, Grice K. Exceptionally well-preserved cutin in extinct seed ferns (Carboniferous): are these early Angiosperms? Presented at: GSA Student Earth Sciences Symposium; 2019 November 29; Perth (Australia).

Tripp M, Rickard W, Veder J, Whiteside J, Kersting R, Kleine-Boymann M, Coolen M J L, Grice K. TOF-SIMS analysis of exceptionally preserved Mazon Creek fossil concretions. Presented at: The 22<sup>nd</sup> International Conference on Secondary Ion Mass Spectrometry; 2019 October 20-25; Kyoto (Japan).

Tripp M, Rickard W, Whiteside J, Gadd P, Grice K. Exceptionally well-preserved cutin in extinct seed ferns (Carboniferous): are these early Angiosperms? Presented at: The 29<sup>th</sup> International Meeting on Organic Geochemistry; 2019 September 1-6; Gothenburg (Sweden).

Tripp M, Plet C, Whiteside J, Grice K. Biomarker distribution in a calcareous siltstone concretion (Devonian, Hillhead Quarry, Scotland). Presented at: GSA GESSS Symposium; 2018 November 29; Perth (Australia).

### Links:

[https://www.researchgate.net/profile/Madison\\_Tripp](https://www.researchgate.net/profile/Madison_Tripp)

<https://www.linkedin.com/in/madison-tripp-914a791a3/>



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