

CHRISTOPHER N. TODD

Ph.D. Candidate, Geology

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Education

- 2015-2020 Doctorate of Philosophy (Geology), James Cook University, Townsville.
Thesis title: “*The sedimentary evolution of Permian to Cretaceous basins in Queensland, Australia: insights from lithostratigraphy, U–Pb zircon geochronology, sedimentary facies, and provenance analysis*”.
Advisor: Assoc. Prof. Eric M. Roberts.
- 2011-2014 Bachelor of Geology (Honours Class I), James Cook University, Townsville.
Thesis title: “*The stratigraphic and sedimentologic history of the Jurassic Blantyre Sandstone of the NE Eromanga Basin and surrounding strata, Central Queensland*”.
Advisor: Assoc. Prof. Eric M. Roberts.

Academic Employment

- 2019 **Subject Co-Ordinator/Lecturer for undergraduate-level Introduction to Sedimentology: James Cook University, Townsville.**
Responsibilities:
- Designing and presenting lectures;
 - Designing and running weekly practicals and assessments;
 - Designing and running field trips;
 - Designing and grading invigilated and non-invigilated assessment tasks.
- 2016-2019 **Higher Degree by Research (HDR) postgraduate student representative for the Earth & Physical Sciences: James Cook University, Townsville.**
Responsibilities:
- Liaising with staff & postgraduates concerning matter in the college;
 - Organising and planning postgraduate conferences within the faculty;
 - Attend meetings with Associate Deans and other representatives to air any issues and concerns within the department.
- 2014-2018 **Teaching Assistant: James Cook University, Townsville.**
Responsibilities:
- Designing, running, and co-running, weekly practicals;
 - Marking and grading practicals and assessments;
 - Running and co-running fieldtrips; delivering guest lectures.

Papers and Publications

- 2020-21 **Todd, C.N.**, Roberts, E.M., Charles, A. A revised Permian-Triassic stratigraphic framework for the north-eastern Galilee Basin, Queensland, Australia. *Australian Journal of Earth Sciences*, (in review).
- Foley, E.K., Henderson, R.A., Roberts, E.M., Kemp, A.I.S., Knutsen, E.M., Fisher, C., **Todd, C.N.**, Wainman, C.C., Spandler, C. Jurassic Arc: Reconstructing the lost world of eastern Gondwana. *Geology*, (in review).
- 2020 Cheng, Y., **Todd, C.N.**, Henderson, R.A., Danisik, M., Sahlström, F. Chang, Z., Corral, I. Jurassic uplift and erosion of the northeast Queensland continental margin: evidence from (U-Th)/He thermochronology combined with U-Pb detrital zircon age spectra. *Australian Journal of Earth Sciences* 67, pp. 591-604.
- 2019 **Todd, C.N.**, Roberts, E.M., Knutsen, E.M., Rozefelds, A.C., Spandler, C. Huang, H. Refined age and geological context of two of Australia's most important Jurassic vertebrate taxa (*Rhoetosaurus brownei* and *Siderops kehli*), Surat Basin, Queensland. *Gondwana Research* 76, pp. 19-25.
- 2017 Roberts, E. & **Todd, C.** Were termites the world's first farmers? *Australasian Science*, March/April 2017, pp. 22-24 (popular science magazine article).
- 2016 Roberts, E.M., **Todd, C.N.**, Aanen, D.K., Nobre, T., Hilbert-Wolf, H.L., O'Connor, P.M., Tapanila, L., Mtelela, C., Stevens, N.J. Oligocene termite nests with *in situ* fungus gardens from the Rukwa Rift Basin, Tanzania, support a Paleogene African origin for insect agriculture. *Plos One*, doi:10.1371/journal.pone.0156847.

Awards and Grants

- 2018 International Association of Sedimentologists Student Travel Grant to attend and present at the 20th International Sedimentological Congress in Quebec City, Canada. **€500.**
- Society for Sedimentary Geology Student Travel Grant to attend and present at the 20th International Sedimentological Congress in Quebec City, Canada. **US\$500.**
- 2017 Australian Research Council Discovery Project "Jurassic arc? Reconstructing the lost world of Eastern Australia." (Student Researcher) **AUD\$284,390.**

- 2016 Jurassic Foundation Grant: “Chasing the Lost World: the search for Jurassic dinosaurs of the Coral Sea and Cape York Peninsula, Australia.” (Primary Investigator) **US\$2790.**
- 2016 International Association of Sedimentologists (IAS) Post-Graduate Research Grant: “The stratigraphy and sedimentary provenance of late Mesozoic strata in the Great Artesian Basin, Australia, and the reconstruction of the tectonic history and palaeodrainage evolution of eastern Australia.” (Primary Investigator) **€1000.**
- 2015-2018 Australian Postgraduate Award (APA) Stipend. **AUD\$192,000.**

Conference Abstracts/Presentations

- 2019 **Todd, C.N.**, Roberts, E.M., Knutsen, E.M., Rozefelds, A.C., Huang, H-Q, Spandler, C. *Refined age and geological context of two of Australia’s most important Jurassic vertebrate taxa* (Rhoetosaurus brownei and Siderops kehli), Surat Basin, Queensland, 79th Annual Meeting of the Society of Vertebrate Paleontology, 9-12 October 2019, Brisbane, Australia.
- 2018 **Todd, C.N.**, Roberts, E.M. *Mesozoic tectonic evolution of eastern Australia: insights from the sedimentary record of central North Queensland*, 20th International Sedimentological Congress, 13-17 August 2018, Quebec City, Canada.
- 2017 **Todd, C.N.** *A discussion on the stratigraphy and tectonic history of Porcupine Gorge, Queensland*, GESSS-QLD, 01 November 2017, Brisbane, Australia.
- Todd, C.N.**, Roberts, E.M. *Detrital zircon geochronology of late Palaeozoic to Mesozoic sandstones from northern Queensland: implications of the evolution of eastern Australian basins*, FUTORES II Conference, 04-06 June 2017, Australia.
- Todd, C.N.**, Roberts, E.M. *Resolution of Permian & Triassic stratigraphic problems in Porcupine Gorge, Queensland*, FUTORES II Conference, 04-06 June 2017, Australia.
- 2016 **Todd, C.N.**, Roberts, E.M., Spandler, C., 2016, *Reconstructing the tectonic history and palaeodrainage evolution of Mesozoic NE Australia*, Australian Earth Sciences Convention, 26-30 June 2016, Adelaide.

Professional Experience

Subject Co-ordinator/Lecturer, James Cook University:
Introduction to Sedimentology (2019)

Teaching Assistant, James Cook University:
Introduction to Sedimentology (2015-2018);
Sedimentary Environments and Energy Resources (2014-Present).
Introductory Geology (2018-Present)

Guest Lecturer, James Cook University:
Introduction to Sedimentology (2015-2018).
Sedimentary Environments and Energy Resources (2015-Present)
Introductory Geology (2018-Present).

Research Projects

PhD Thesis Sedimentology and stratigraphic history of Porcupine Gorge, QLD, Australia.

Mesozoic tectonic evolution of eastern Australia: insights from the sedimentary record of central North Queensland (Australian Research Council Discovery Program funded).

Collaborator Jurassic arc? Reconstructing the lost world of Eastern Australia (with E. Roberts, C. Spandler, R. Henderson, A. Kemp).

Alexandria Formation Lagerstätte Project, South Africa (with E. Roberts, D. Goodwin, L. Tapanila, W. De Klerk).

Rukwa Rift Basin Project, Tanzania (with E. Roberts, P. O'Connor, N. Stevens)

Professional Affiliations

Present Geological Society of Australia (GSA); International Association of Sedimentologists (IAS); Society for Sedimentary Geology (SEPM); Economic Geology Research Unit (EGRU); Petroleum Exploration Society of Australia (PESA).

2012-2014 Australasian Institute of Mining and Metallurgy (AusIMM); Society of Economic Geology (SEG).

Referees

Associate Professor Eric Roberts,
Building 34, James Cook University, Townsville
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Associate Professor Carl Spandler
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Professor Robert 'Bob' Henderson
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