

Dr. Micheline Campbell

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Professional Summary

I am a former climatologist, currently working in hydrological sediment and nutrient transport. I have strong data science skills and have developed research skills applicable to a broad range of topics within the environmental sciences. My PhD research focused on stalagmite-based climate proxy records and associated karst geomorphology and groundwater hydrology, while my current position with the Queensland Department of Natural Resources, Mining, and Energy has a strong focus on field experiments and hypothesis testing of reducing nutrient and sediment runoff to Great Barrier Reef catchments. I am hoping to further my scientific career by securing a position where I can continue to use the skills I have developed, broaden my skillset, and continue teaching and engaging with undergraduate and postgraduate students.

Experience

Research

Teaching

Education

- 2014–2019 **PhD (Geography)**, *The University of Western Australia*, Perth, Australia.
- **Thesis: Speleothem-based palaeo-climate research: Methodology, applications, and insight from the Snowy Mountains, southeast Australia**
 - Supervisors: JN. Callow, H. McGowan, G. McGrath, H. Wong
- 2013–2014 **BA (Hons, 1st Class) (Geography)**, *The University of Queensland*, Brisbane, Australia.
- **Thesis: The Drip Hydrology of a Speleothem from the Yarrangobilly Caves, NSW, Australia**
 - Supervisors: H. McGowan, JN. Callow
- 2010–2012 **BA (Geography and Spanish)**, *The University of Queensland*, Brisbane, Australia.

Publications

1. Campbell, M, J Callow, G McGrath, and H McGowan (May 2018). Co-authorship analysis of the speleothem proxy-climate community: working together to tackle the big problems. *International Journal of Speleology* **47**(2), 165–172.

2. McGowan, H, JN Callow, J Soderholm, G McGrath, M Campbell, and Jx Zhao (Dec. 2018). Global warming in the context of 2000 years of Australian alpine temperature and snow cover. *Scientific Reports* **8**(1), 4394.
3. Campbell, M, JN Callow, G McGrath, and H McGowan (Dec. 2017). A multimethod approach to inform epikarst drip discharge modelling: Implications for palaeo-climate reconstruction. *Hydrological Processes* **31**(26), 4734–4747.

■ Funding and Scholarships

■ Conference Presentations

■ Skills

■ Service

Volunteer Positions

Presented Workshops

■ Professional Development

■ References

PhD **Dr. Nik Callow**, *School of Agriculture and Environment, The University of Western Australia*, nik.callow@uwa.edu.au; +61 8 6488 1924.

PhD **Dr. Gavan McGrath**, *Western Australia Dept. of Biodiversity, Conservation, and Attractions*, gavan.mcgrath@dbca.wa.gov.au.