

# Dr. Callum J. Shakespeare

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Research School of Earth Sciences  
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## Academic Qualifications

2015	PhD University of Cambridge Department of Applied Mathematics and Theoretical Physics
2011	BSc Honours (Physics of the Earth) Australian National University Research School of Earth Sciences
2010	Bachelor of Science (Applied Mathematics and Physics) University of Western Australia Perth, WA

## Academic Employment History

2018 - present	Tenure-Track Research Fellow in Climate and Fluid Physics and ARC DECRA Fellow Research School of Earth Sciences Australian National University
2015-2018	Research Fellow in Climate and Fluid Physics ARC Centre of Excellence for Climate System Science Research School of Earth Sciences Australian National University

## Academic Awards

- 2016 Keith Runcorn Thesis Prize (Runner Up)
  - Citation: Royal Astronomical Society (UK) Prize for the best doctoral thesis in geophysics.
- 2012 Gates Cambridge Scholarship
  - Citation: For intellectually outstanding postgraduate students with a capacity for leadership and a commitment to improving the lives of others.
- 2011 University Medal (ANU)
- 2011 A. L. Hales Honours Scholarship (ANU)

## Research Supervision

*Honours (name, year, outcome, role)*

- James Sweetman, 2020, ongoing, primary supervisor
- Callum Shaw, 2019, H1, primary supervisor
- Nick Velzeboer, 2019, H1, primary supervisor
- Siru Zheng, 2016, H1, primary supervisor

### *PhD (name, years, role)*

- Nick Velzeboer, 2020-, primary supervisor and panel chair
- Jemima Rama, 2018-, primary supervisor and panel chair
- Angus Gibson, 2015-19, panel member

### **Grant/Fellowship Funding**

- Reeder, M., Arblaster, J., Brown, J., Evans, B., Hogg, A., Holbrook, N., Jakob, C., Johnson, F., Kay, M., Lane, T., **Shakespeare, C.**, Sherwood, S., Vincent, C., Zika, J., Strutton, P., ARC Linkage Infrastructure, Equipment and Facilities LE200100040, *Fast Disk Storage to Enable Big Data Science in Weather, Oceans and Climate*, \$580,000, 2020.
- Roderick, M. and **Shakespeare, C.**, ARC Discovery Project DP190100791, *Limits to Ocean Surface Temperature in Future Climates*, \$270,000, 2019-present.
- **Shakespeare, C.**, Discovery Early Career Researcher Award (DECRA), Internal wave breaking and mixing in the ocean, \$328,075, 2018-present.

### **Teaching**

Fundamentals of Climate System Science (EMSC2021/6021)

- Lecturer 2016-2019; Lecturer and Convenor 2020

### **Invited Talks and Seminars**

- 13 March 2020: University of Adelaide, School of Mathematics Colloquium, *The coupling of ocean tides, internal waves and mean flows: new insights from mathematical models*
- 12 February 2020: Scripps Institution of Oceanography, Physical Oceanography Seminar, *Interdependence of internal tide and lee wave generation*
- 12 September 2018: Monash University, *Forcing of ocean circulation by internal waves: What can oceanographers learn from atmospheric scientists?*
- 12 June 2018: National Centre for Atmospheric Research (NCAR), Boulder, Colorado, USA, *Do internal tides drive the upper ocean?*
- 14 November 2017: University of Western Australia, *Energy pathways of small-scale internal tides: dissipation versus reabsorption*
- 20 January 2016: University of Tasmania, *Spontaneous internal wave generation from surface fronts*

### **Other Engagement**

- Member of the NASA-CNES Surface Water Ocean Topography (SWOT) Science Team as part of the proposal: *Untangling deterministic and non-deterministic ocean processes in SWOT observations*, Investigators: Keating, S., Jones, N., Rayson, M., **Shakespeare, C.**

### **Bibliometrics**

- Google scholar: <https://scholar.google.com.au/citations?hl=en&user=rCGUDhEAAAAJ>
- ORCID: <https://orcid.org/0000-0002-8109-0751>