

Andrew Rhys Counsell

Curriculum Vitae

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Education

- 2021–present **PhD, Mathematical Sciences**, *University of Southampton*, Southampton.
Supervisor: Prof. Nils Andersson
- 2015–2019 : **Integrated MSci, Physics**, *Imperial College London*, London.
Grade: First class honours

Publications

Journal Articles

- 2024 A R Counsell, F Gittins, N Andersson, and P Pnigouras. Neutron star g-modes in the relativistic cowling approximation. *Mon. Not. Roy. Astron. Soc.*, page stae2721, 12 2024.
- 2024 A. R. Counsell, F. Gittins, and N. Andersson. The impact of nuclear reactions on the neutron-star g-mode spectrum. *Mon. Not. Roy. Astron. Soc.*, volume 531, pages 1721–1729, 2024.
- 2019 Christopher Barton, Andrew Counsell, Fay Dowker, Dewi S. W. Gould, Ian Jubb, and Gwyllim Taylor. Horizon molecules in causal set theory. *Phys. Rev. D*, volume 100, page 126008, 2019.

In Preparation

- 2025 P Pnigouras, N. Andersson, F. Gittins, and A. R. Counsell. Dynamical neutron-star tides: The signature of a mode resonance. in preparation, 2025.
- 2025 A Counsell, F. Gittins, N. Andersson, and I. Tews. Interface modes in inspiralling neutron stars: A gravitational-wave probe of first-order phase transitions. in preparation, 2025.

Computer skills

- Programming Python, Julia
- Scientific Wolfram Mathematica, Maple, LaTeX
- Version Control Git

Teaching Experience

- Graduate teaching assistant Teaching activities included computer lab demonstrating and marking student work.