

CURRICULUM VITAE

A. MAKAI BAKER

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EDUCATION

University of California, Berkeley Ph.D. Candidate, Physics Chancellor's Fellow	2025 - present
Monash University (Australia) BSc. Advanced Research (Honours), Physics and Pure Mathematics	2021 - 2024

AWARDS AND SCHOLARSHIPS

Chancellor's Fellowship <i>University of California, Berkeley</i>	2025-2026
Centennial Fellowship (declined) <i>Princeton University</i>	2025-2026
Rodney L. Turner Prize <i>Dept. of Physics & Astronomy, Monash University</i>	2024
J. L. Williams Honours Scholarship <i>Dept. of Physics & Astronomy, Monash University</i>	2024
William A. Rachinger Prize <i>Dept. of Physics & Astronomy, Monash University</i>	2023

PUBLICATIONS

Authors listed in order of contributions.

- [1] **A. M. Baker**, E. Thrane, P. Lasky, J. Golomb (Accepted to PRD)
Significant challenges for astrophysical inference with next-generation gravitational-wave observatories.
DOI: 2503.04073
- [2] **A. M. Baker**, E. Thrane, P. Lasky, et al. (APJS)
GWCloud: a searchable repository for the creation and curation of gravitational-wave inference results (2023)
DOI: 10.3847/1538-4365/acc938
- [3] N. Sahu et al. (including **A. M. Baker**) (APJ)
AGEL: Is the Conflict Real? Investigating Galaxy Evolution Models using Strong Lensing at $0.3 < z < 0.9$ (2024)
DOI: 10.3847/1538-4357/ad4ce3
- [4] T. Barone et al. (including **A. M. Baker**) (in preparation)
The AGEL Survey Data Release 2: A Gravitational Lens Sample for Galaxy Evolution and Cosmology.

WORK EXPERIENCE

1. **Research Officer**

2025

Dept. of Physics & Astronomy, Monash University

Supervisors: Eric Thrane, Paul Lasky

OUTREACH

Faculty of Science Honours Information Seminar

2024

Delivered a talk to prospective honours students in the Faculty of Science at Monash University.

SKILLS

Python, Parallel computing, High Performance Computing (HPC)