

CURRICULUM VITAE

A. MAKAI BAKER

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EDUCATION

University of California, Berkeley

2025 - present

Ph.D. Candidate, Physics

Chancellor's Fellow

Monash University (Australia)

2021 - 2024

BSc. Advanced Research (Honours), Physics and Pure Mathematics

AWARDS AND SCHOLARSHIPS

Chancellor's Fellowship

2025-2026

University of California, Berkeley

Centennial Fellowship (declined)

2025-2026

Princeton University

Rodney L. Turner Prize

2024

Dept. of Physics & Astronomy, Monash University

J. L. Williams Honours Scholarship

2024

Dept. of Physics & Astronomy, Monash University

William A. Rachinger Prize

2023

Dept. of Physics & Astronomy, Monash University

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)