Jasmine Anderson-Baldwin

PHD CANDIDATE · CENTRE FOR ASTROPHYSICS AND SUPERCOMPUTING

Swinburne University of Technology, Melbourne, VIC, Australia

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Education_ **Swinburne University of Technology** Melbourne. Australia PhD, Astrophysics 2024-present Supervisor: Prof. Jarrod Hurley • Co-supervisors: Dr Jade Powell, Dr Yuzhe Song • Thesis: A New Census of the Transient Populations of Star Clusters **University of Auckland** Auckland, New Zealand MSc, Physics 2022-2023 • Supervisors: A/Prof. Nicholas Rattenbury, Dr Michele Bannister • Thesis: LEO Satellite Constellations in the MOA Database **University of Auckland** Auckland, New Zealand BSc(Hons), Physics 2020-2022 • Supervisors: A/Prof. Nicholas Rattenbury, Dr Michele Bannister • Dissertation: Investigation of (2069) Hubble in the MOA-II Database **University of Auckland** Auckland, New Zealand **BSc, Physics & Mathematics** 2016-2019 · Science Scholar **University of Auckland** Auckland, New Zealand **BA, LINGUISTICS & LOGIC AND COMPUTATION** 2016-2019 Research Experience _____ **University of Auckland - Department of Physics** Auckland, New Zealand SUPERVISOR: A/PROF. NICHOLAS RATTENBURY 2023-2024 • Research Assistant: Free Space Optical Communications • Testing of an experimental extremely low-resource optical beacon for potential use on microsatellites. Teaching Experience _____ 2018–2023 ASTRO 100, PHYSICS 102, PHYSICS 160, Graduate Teaching Assistant University of Auckland 2018-2023 Tuākana Mentoring Programme, Graduate Teaching Assistant University of Auckland Third Year Advanced Lab, Graduate Teaching Assistant University of Auckland 2021 2018-2019 MATHS 208, COMPSCI 225, Teaching Assistant University of Auckland Awards, Fellowships, & Grants _____ 2024 ARC Research Training Program Scholarship, Swinburne University of Technology 2022 Sustainability Network Research Award, University of Auckland 2022 Rangiriri & Mātene Te Whiwhi Winiata Scholarship, Māori Education Trust 2019 First in Course (Linguistics 203: Applied English Grammar), University of Auckland 2017 Summer Research Scholarship, University of Auckland 2017 **Department of Physics Scholarship**, University of Auckland

Publications _____

PUBLISHED

Nandakumar, S., Eggl, S., Tregloan-Reed, J. et al. including **Anderson-Baldwin, J.** (2023). *The high optical brightness of the BlueWalker 3 satellite*. Nature 623, 938–941.

In Review

IN PREP

Anderson-Baldwin, J., Bannister, M. T., Rattenbury, N. J., Cowan, P. A Précis of the MOA-II Observations.

Anderson-Baldwin, J., Hurley, J. R., Flynn, C. The old open cluster M67 in N-body models and Gaia.

Dage, K. C., Hunt, E. L., **Anderson-Baldwin, J.**, et al. *The Secret Lives of Open Clusters: a Multiwavelength Examination of Three Open Clusters*.

Presentations _____

INVITED TALKS

CONTRIBUTED PRESENTATIONS

- 2025 June. *M67 in* NBODY6++GPU *and Gaia DR3*. Poster presentation: IAU Symposium 398 & MODEST-25: Compact Objects and Binaries in Dense Stellar Systems, Seoul, South Korea.
- 2023 July. LEO Satellite Constellations in the MOA Database. Oral presentation: New Zealand Institute of Physics & Physikos Conference, Auckland, New Zealand.
- 2022 June. *The impact of satellite constellations on the MOA telescope*. Poster presentation: Royal Astronomical Society of New Zealand Conference, Whangārei, New Zealand.

Outreach & Professional Development _____

SERVICE AND OUTREACH

- 2022 Mount John Observatory Open Day, Volunteer
- 2019 Department of Physics Open Day, Volunteer
- 2018 Physics Association of the University of Auckland, Committee Member
- 2018 Museum of Transport and Technology Super STEM Fair, Volunteer
- 2016–2017 Maths Craft Festival, Volunteer

DEVELOPMENT

OzGrav ECR Workshop, Brisbane, Australia (December 2024). Particular focuses on science communication and outreach.

Harley Wood School of Astronomy, Sydney, Australia (June 2024). Main topics were big data and collaborations, as well as a focus on how to manage PhD candidature.

PROFESSIONAL MEMBERSHIPS

Astronomical Society of Australia (ASA)

- Australian National Institute for Theoretical Astrophysics (ANITA)
- Early Career Researcher Chapter

LSST Stars, Milky Way & Local Volume Science Collaboration (SMWLV)

• SMWLV Star Clusters Working Group

ARC Centre of Excellence for Gravitational Wave Discovery (OzGrav)