

Associate Professor Andy Casey

School of Physics and Astronomy, Monash University

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ACADEMIC POSITIONS

Monash University, Melbourne, Australia 2017 –
Associate Professor 2023 –
Senior Research Fellow 2021 – 2023
Discovery Early Career Researcher Award (DECRA) Fellow 2019 – 2022
Research Fellow in Astrophysics and Statistics 2017 – 2019

University of Cambridge, Cambridge, United Kingdom 2014 – 2017
Research Fellow in Astrophysics

EDUCATION

Australian National University, Canberra, Australia 2010 – 2014
Doctor of Philosophy, *Advisors: Stefan Keller, Gary Da Costa, and Brian Schmidt*
Thesis: *A tale of tidal tails in the Milky Way*

Massachusetts Institute of Technology, Cambridge, USA 2012
Student as a recipient of the *Australian Prime Minister's Endeavour Award*

Monash University, Melbourne, Australia 2005 – 2008
Bachelor of Aerospace Engineering (Honours)
Thesis: *Simulating skip-and-featured trajectories for orbital re-entry*

PUBLICATION SUMMARY

I have authored 172 publications including 16 as first-author and 38 as second- or third-author. These publications have accumulated 25,268 citations (*h*-index: 62, *m*-index: 4.5). A complete list is available through NASA/ADS or Google Scholar.

GRANTS

Self-calibration for laboratory spectrographs, Agilent Technologies 2024

Wobbling stars reveal their hidden companions, ARC 2022
First Discovery Project proposal submitted as Primary Chief Investigator.

GaiaUnlimited: Who is in, and who is not? 2021
Received a perfect score from the European Union's Horizon 2020 program.

Input feature obfuscation, Office of National Intelligence 2020
As part of the *Artificial Intelligence for Decision Making* program.

The stars that should not exist, ARC 2019
Discovery Early Career Researcher Award (DECRA)
Ranked in top 10 of all mathematics, physics, chemistry and earth science applications.

A telescope to study the interiors of stars, ARC 2019
Linkage Infrastructure, Equipment and Facilities grant

Big ideas and big data for a big universe, Monash University 2017

AWARDS

Excellence by an Early Career Researcher, Monash University 2023

Sustainability champion award, ASTRO-3D Center of Excellence 2022

Youngest faculty member in the history of School of Physics and Astronomy 2019

Discovery Early Career Researcher Award, Australian Research Council 2019

Young Tall Poppy Award, Australian Institute of Policy and Science 2018

Fresh Science Finalist, Science in Public 2018

Science Meets Parliament, on behalf of the Astronomical Society of Australia 2017

Senior Member, King's College, University of Cambridge 2015 – 2017
For context, fewer than 3% of post-docs at Cambridge are affiliated with any College.

	Grants for consecutively top-ranked telescope proposals	2014 – 2016
	Optical Infrared Coordination Network for Astronomy	
	Lindau Nobel Laureate Meeting , Australian Academy of Science	2012
	Global Young Scientist Summit , National Research Foundation, Singapore	2012
	Vice-Chancellor’s Award for Community Outreach , ANU	2012
	Vice-Chancellor’s Higher Degree Research Grant , ANU	2012
	Alex Rodger’s Scholarship , ANU	2012
	GREAT , European Science Foundation	2012
	Access to Major Research & Facilities Grant , ANSTO	2012
	Australian Prime Minister’s Endeavour Award	2011
	First Prize Winner , InnovationACT	2011
	Best Elevator Pitch , InnovationACT	2011
	Best Initial Pitch , InnovationACT	2011
	Innovation Grant , ATP Innovations	2011
	Doctor of Philosophy Scholarship , ANU	2010 – 2013
TEACHING	Scientific programming , freshman class	2021 –
	Advanced data analysis , senior class	2019 –
	Machine learning for the physical sciences , senior class	2019 –
	Physics , freshman class	2019 – 2021
	Observational astrophysics , junior class	2018
	Origin of the elements , senior class	2018
SERVICE	After SDSS-V Steering Committee	2025
	Scientific Advisory Committee Chair , AAL	2025 – 2027
	Scientific Advisory Committee , AAL	2024
	Collaboration Council , Sloan Digital Sky Survey	2021 – 2027
	Management Committee , Sloan Digital Sky Survey	2024 – 2027
	Sustainability Committee Chair , ASTRO-3D	2022 – 2023
	NASA/ADS Advisory Committee	2020 – 2023
	Gaia Sprints Organizing Committees (~10 sprints)	2016 – 2022
	Detailed reviewer , Australian Research Council (DP; DE; LIEF; FT)	2019 –
	Reviewer , Canadian National Time Allocation Committee	2016 – 2018
	Reviewer , European Southern Observatory	2019 – 2021
	Reviewer , ANU Time Allocation Committee	2014
	Referee , AAS, MNRAS, A&A, Nature, PASA, Artificial Intelligence Review	