Dr. Aaron C. Rizzuto

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References

A. Prof. Michael Ireland, Australian National University (michael.ireland@anu.edu.au)Prof. Adam Kraus, University of Texas at Austin (alk@astro.as.utexas.edu)A. Prof. Andrew Mann, University of North Carolina at Chapel Hill (awmann@unc.edu)

Education

- 2011–2014 Ph.D, Astronomy & Astrophysics, Department of Astronomy, Macquarie University. THESIS Characterising the Young Sco-Cen Association
- ADVISORS A. Prof. Michael Ireland, Dr. Daniel Zucker
- 2010–2011 B.Sc., Honours Class 1 in Physics, Sydney Institute for Astronomy, University of Sydney. THESIS The Membership and Multiplicity of Sco OB2
- ADVISORS A. Prof. Michael Ireland, Prof. Peter Tuthill, Dr. Gordon Robertson
- 2007–2009 B.Sc. (Advanced), Physics & Mathematics, University of Sydney.

Employment

- June 2018– **51 Pegasi b Prize Postdoctoral Fellow**, Department of Astronomy, The University of Texas at Austin.
 - ADVISOR A. Prof. Adam Kraus
- 2016–2018 Postdoctoral Fellow, Department of Astronomy, The University of Texas at Austin.
- ADVISOR A. Prof. Adam Kraus
- 2011–2013 Physics Laboratory TA, Macquarie University.
- 2011–2013 1st Year Astronomy Marking, Macquarie University.

Telescope Time and Grants Received

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2019 NASA Keck 2019B, 1 night, $14,000 (PI)
Dynamical Masses of Young Stars with Non-Redundant Masking
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- 2019 NASA Keck 2019A, 1 night, \$14,000 (Co-PI) Testing the Kozai-Lidov Mechanism for Planet Migration with Non-Redundant Masking
- 2018 **51 Pegasi B Fellowship**, \$375,000 (PI) Planet Formation and Evolution Using Young Populations
- 2018 **TESS GO Cycle 1**, 1000 targets, \$100,000 (PI) Star and Planet Evolution at 10-20 Myr After Formation
- 2017 NASA Astrophysics Data Analysis Program, \$282,000 (PI) The Exoplanet Migration Timescale from K2 Young Clusters

2017	NASA Keck 2017B , 0.5 nights, (PI)						
	Testing the Binary Trigger Formation Hypothesis for FUors						
2017	NASA Keck 2017B , 1 night, \$14,000 (Co-PI)						
	Testing the Kozai-Lidov Mechanism for Planet Migration with Non-Redundant Masking						
2017	Kepler K2CG Cycle 5, 500 targets, \$50,000 (PI)						
	Star and Planet Evolution at 10-20 Myr After Formation						
2016-2017	Texas Advanced Computing Center, Lonestar5 500,000 core hours (PI)						
	The Exoplanet Migration Timescale from K2 Young Clusters						
2017	Texas Advanced Computing Center, Lonestar5, 50,000 core hours (PI)						
	Bayesian Cluster Identification with Galactic Traceback						
2016	NASA Spitzer Space Telescope, 106 hours (CoI)						
	Zodiacal Exoplanets in Time (ZEIT): Are These Worlds Flat?						
2016	Kepler K2GO Cycle 4, 500 targets, \$50,000 (PI)						
	Planet Formation and Fundamental Stellar Parameters at the Early Stages of Stellar Evolution						
2016	Kepler K2GO Cycle 4, 200 targets, \$40,000 (CoI)						
	Zodiacal Exoplanets in Time (ZEIT): The Hyades Cluster						
2016	NASA Keck 2016B , 1 night, \$15,000 (CoI)						
	Zodiacal Exoplanets in Time (ZEIT): The AO follow-up Program						
2016	Gemini:GPI sparse aperture masking, 30.4 hours (CoI)						
	The Planetary Systems of Young Massive Stars						
2015-2017	NASA Keck Long Term Program, 4 nights over 2 years, \$60,000 (Science-PI)						
	Calibrating Young Stellar Models with Dynamical Masses in the Gaia Era						
2016	UT 2.7 m, Coude Spectrograph, 18 nights (PI)						
2015 - 2016	UT 2.7 m, IGRINS Spectrograph, 5 nights (PI)						
2015	UT 2.1 m, SES Spectrograph, 6 nights (PI)						
2013-2015	ANU 2.1 m, WiFeS Spectrograph, 12 nights (PI)						

Awards

- 2012 Macquarie University Postgraduate Research Fund (\$5000), Macquarie University.
- 2011–2014 Australian Postgraduate Award (\$77000), Macquarie University.
 - 2010 School of Physics Honours Scholarship (\$3000), University of Sydney.
 - 2009 Summer Vacation Scholarship in Astrophysics (\$3000), University of Sydney.
 - 2008 Summer Vacation Scholarship in Astrophysics (\$3000), University of Sydney.

Teaching Experience

2019– Attended ISEE PDP, UC Santa Cruz.

Institute for Scientist and Engineer Educators professional development program. A flexible workshop designed to teach scientists how to create inquiry-based learning experiences for students.

- 2019– Advisor for undergraduate research student (Nolan Elauria), UT Austin. **Project:** Autonomous Rotation Period Measurements of Young Stars with Kepler
- 2019– Advisor for undergraduate research student (Samantha Anger), UT Austin.
 Project: Identifying Single Transit Events in Kepler K2 Data of Young Stars
- 2018- Advisor for undergraduate research student (Jordyn Mascarenas-Wells), UT Austin.

Project: Identifying New Young Stars in Gaia DR2

- 2017- Guest lecture on the Solar birth cluster (undergrad), UT Austin.
- 2017– Guest lecture on transit search and planet migration in young systems (undergrad and grad.), UT Austin.
- 2017- Co-advisor for Graduate student (Daniel Krolikowsky), UT Austin.
 Project: A Spectroscopic Survey of the Taurus-Auriga Star-Forming Complex
- 2016 Co-advisor for undergraduate research student (Jennifer Medina), UT Austin. Project: Misalignment of K2 cluster planets from spectroscopy and rotation periods
- 2016 Co-advisor for undergraduate research student (Saki Kamon), UT Austin. Project: Follow up of directly-imaged young exoplanets
- 2016 Co-advisor for Honours Student (Yi Jian Ching), The University of Sydney. Project: Milli-arcsecond scattering around T Tauris: the halos of the newest solar systems
- 2013 Astronomy department technical seminar on Bayesian statistics, Macquarie University.
- 2011–2013 Laboratory Demonstrator (physics), Macquarie University.
- 2005-2009 **Private Music Teacher**, Self employed.

Public Outreach

- Nov 2016 Special Viewing Night Talk, McDonald Observatory. Moving the Planets
- 2015-2016 Ask An Astronomer, University of Texas at Austin. Answer community question on an online platform (askanastronomer.org).
 - 2013 Physics Department Career Information Night, Macquarie University. Gave a seminar to high school and undergraduate students describing working as an astronomer
- 2011-2014 Astronomy Viewing Night Demonstrator, Macquarie University. Operated several telescopes and provided information/answered questions for members of the public.

Professional Service

- 2019 NSF grant panelist on cool stars.
- 2018 NASA Exoplanets Research Program Panelist.
- 2017– Bash Symposium 2017 conference chair
- 2015– External Referee for CANTAC, CFHT committee.
- 2013– Referee for ApJ, MNRAS, ApJL, A&A
- 2013–2014 Disciplinary Committee Member, Macquarie University
 - 2014– Member of the American Astronomical Society

Presentations

- 2019 Kepler Science Conference, Glendale. Talk: The Exoplanet Migration Timescale from K2 Young Clusters
- 2019 AAS Annual Meeting, Seattle. Talk: The Exoplanet Migration Timescale from K2 Young Clusters
- 2018 **GMT Science Meeting**, Honolulu. Talk: Dynamical Masses of Young Binary Stars
- 2018 **51 Pegasi b Symposium**, San Francisco. Talk: The Exoplanet Migration Timescale from K2 Young Clusters

2017	AAS	5 229 , (Grapev.	ine.					
	Talk:	The Ex	coplanet	Migration	Timescale	from	K2	Young	Clusters

- 2016 Keck Science Meeting, Caltech. Talk: Dynamical Masses of Young Stars with Keck Aperture Masking
- 2016 Cool Stars 19, Upsala, Sweden. Poster: Calibrating Young Stellar Models With Dynamical Masses in the Gaia Era
- 2016 **Invited Astronomy Colloquium**, Anglo-Australian Observatory. Calibrating Star and Planet Evolution with Young Groups of Stars
- 2016 Astronomy Colloquium, Sydney Institute for Astronomy. Calibrating Star and Planet Evolution with Young Groups of Stars
- 2016 Astronomy Colloquium, Australian National University (RSAA). Calibrating Star and Planet Evolution with Young Groups of Stars
- 2016 Astronomy Colloquium, University of Rochester. Calibrating Star Formation and Stellar Models with Young Binary Stars
- 2016 Astronomy Colloquium, American Museum of Natural History. Calibrating Star Formation and Stellar Models with Young Binary Stars
- 2016 **Stellar Activity Meeting**, Columbia University. Talk: Young Clusters with Gaia
- 2015 **K2SciCon**, Santa Barbara, CA. Poster: Young Star Science with K2: Upper Scorpius
- 2015 Keck Science Meeting, UCLA. Poster: Dynamical Masses Demonstrate the Discordant Model Ages for Upper Scorpius
- 2013 Astonomical Society of Australia Annual Meeting, Melbourne, Australia. Talk: The Membership and Multiplicity of Sco-Cen
- 2013 Physics Department Seminar, Macquarie University. Age Dating the Sco-Cen Association
- 2012 Cool Stars 17, Barcelona, Spain. Poster: Identifying Young, Nearby Low-Mass Stars
- 2012 Astronomy Department Seminar, University of Exeter, England. New Companions to B-type Stars in Sco-Cen
- 2011 Astronomical Society of Australia Annual Meeting, Adelaide, Australia. Talk: SUSI Multiplicity Survey of Sco-Cen