

Alan R. Duffy

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Academic and Employment History

10/17 – now	Lead Scientist of the Royal Institution of Australia home of <i>Australia's Science Channel</i>
01/17 – now	Associate Professor (Swinburne University)
2017 – now	Associate Investigator , ARC Centre of Excellence for All-sky Astrophysics in 3Dimensions (ASTRO3D)
2017 – now	Associate Investigator , ARC Centre of Excellence for Gravitational Wave Discovery (OzGrav)
07/16 – 06/17	(Adjunct) Research Fellow (ICRAR; UWA)
03/15 – now	Chief-Investigator SABRE (Stawell Underground Physics Lab)
03/14 – 01/17	Research Fellow (Swinburne University)
07/12 – 03/14	Postdoctoral Research Fellow (University of Melbourne)
07/12 – 03/14	(Adjunct) Postdoctoral Associate (ICRAR; UWA)
2010 – now	Affiliate Investigator , ARC Centre of Excellence for All-sky Astrophysics (CAASTRO)
09/09 – now	Team Member (WALLABY / DINGO) on Australian SKA Pathfinder
09/09 – 06/12	Postdoctoral Associate (University of Western Australia)
09/05 – 08/09	PhD Astronomy, University of Manchester with Prof Richard Battye. Marie Curie Early Training Scheme (Leiden) with Prof Joop Schaye.
10/01 – 06/05	MPhys (1st) Physics with Study in Europe, University of Manchester. EU Erasmus Exchange Program to study at University of Amsterdam.

Awards / Computer Grants

2017	VC Award for Community Engagement (winner)
2017	VC Award (Higher Education) Teaching Excellence (highly commended)
2017	Victorian Tall Poppy Award (excellence in research and outreach)
2017	Teaching Excellence Award x2 for Physics 10001 and Communication for Scientists, Swinburne University of Technology
2016	ARC LIEF (CI) Full scale detector system for the first Australian dark matter experiment (\$415k; LE170100162)
2016	Eureka Promoting Understanding of Australian Science Research (finalist)
2016	Club Melbourne Fellowship (finalist)
2016	Awarded (CI) 500k CPU hours; Pawsey for Zoom in Galaxy Growth project
2015	Australian of the Day, Commbank
2015	NeCTAR NCRIS (Co-CI) for All Sky Virtual Observatory (\$100k)

2015 **ARC LIEF (CI) Detector system for the First Australian Experiment on Dark Matter** (\$195k; LE160100080)

2013 **Fresh Science Award, Victorian State Finalist** (excellence in outreach)

2013 **ASA Louise Webster Prize** (commendation)

2013 Awarded (PI) 200k CPU hours; EPIC, iVEC for High-z DM Growth project

2012/13 Awarded (CI) 1M CPU hours; EPIC, iVEC for DRAGONS project

2012 **Best Publication by Early Career Researcher** in UWA (\$1,000)

Q2 2011 Awarded (CI) 4 weeks CPU time (~6Mhrs) at Pawsey HPC, iVEC

2011 **Research Development Award** (Lead CI in competitive grant) \$14,610

Q4 2010 Awarded (CI) 200,000 CPU hours; VAYU, NCI, Australian National Facility

11/09- 02/10 Awarded 2 iVEC Internships (out of a total of 8 in WA), worth \$12,000

12/09 European Science Foundation; Conference Grant €600; Obergurgl, Austria

2008 EU Marie Cure Fund; Conference Grant; Recontres de Moriond (€700)

10/07- 06/08 EU AstroSim; In this period won €4,700 in competitive collaboration grants

09/06- 06/07 EU Marie Curie Fund; **Early Training Scheme**; Won 10 months funding to work at the University of Leiden (€15,236)

2006 EU Marie Cure Fund; Conference Grant; Recontres de Moriond (€1,050)

09/03- 06/04 Erasmus Fund; **European Exchange Program**; Won 10 months funding to study at the University of Amsterdam (€2,000)

2001 **Major Science Award**, University of Manchester (£250 p.a. for 4 years)

2001 **Entrance Scholarship**, University of Manchester (£1000)

Referred Publications

I have 30 publications (10 as first author) in ERA A/A* journals, with a combined citation count of 1594; h-index of 14, g-index of 30 and e-index of 36.4; one paper was awarded “The Best Publication by an Early Career Researcher” in UWA, a second received a commendation in the ASA’s Louise Webster prize for outstanding research, and a third reached the State Finals of the Fresh Science Award.

Academic Experience

I am CI of a multi-million dollar facility investigating the nature of dark matter at Stawell Underground Physics Lab, as well as a team member on two top-ranked surveys with the \$200m Australian SKA Pathfinder telescope. My community trusts my academic opinion as a referee for *Nature*, the *Monthly Notices for the Royal Astronomical Society* and the *Astrophysics Journal* (all top A/A* ERA ranked journals) as well as *Astronomy and Computing*. I have been formally recognised for my astrophysical research as full member of both the peak national (Astronomical Society of Australia) and international (International Astronomical Union) astronomical bodies. I am also a member of the Royal Society of Victoria. In addition, I have served on national bodies for a number of years; twice-elected steering committee member of the Australian National Institute for Theoretical Astrophysics, elected member to the steering committee member for Women in Astrophysics and a

member of the national Time Assignment Committee of the Australian Telescope National Facility distributing \$3m of telescope time each semester.

Computing

I have successfully applied for several million CPU hours via competitive time allocation committees on the Pawsey HPC, NCI Vayu and iVEC XE machines. I am an expert C, Fortran, Python and IDL programmer with extensive experience in massively parallel codes (Gadget; SubFind) having published both Dark Matter only and DM+Hydro simulations.

Invited Seminars

I have spoken at 19 institutes throughout Europe, Australia and South Africa; highlights are Cape Town University, The Royal Edinburgh Observatory and University College London.

Conference Talks

I have spoken or chaired at 27 conferences across Europe, South Africa and Australia with career highlights including a TEDx talk, the CSIRO sponsored National supercomputer “eResearch” meeting in Australia (including a keynote lecture at OzViz 2012) and the international conferences “Gas in Galaxies” at Kloster Seeon in Germany and “The Origin of Galaxies” at the ESF funded Research Conference in Austria, as well as the most prestigious conference in my field; the Cambridge Summer Conference “Darkness Visible”.

Teaching Experience

I have co-supervised 2 PhD students at University of Melbourne (one of whom has completed) and several summer internships at UWA. I have lectured at UWA (Cosmology 101) and University of Melbourne (Astronomy 101 to 120 students, highly rated) and an entire Physics 101 stream at Swinburne University (~200 students, highly rated lecture above faculty and university averages) and several 1st year undergraduate maths tutorials at PhD.

Awards/Financial Grants

I have attracted over \$360k in National, European and International competitions and grants. Highlights include \$610k from the ARC to build SABRE, the world’s first dark matter detector in the Southern Hemisphere, and \$100k to expand the virtual observatory TAO to use hydrodynamic simulation data. I received a \$14k UWA Research Development Award to create an online pipeline to convert simulation predictions to observational products, an award for the Best Publication by an Early Career Researcher (across all disciplines in UWA), a commendation by the Astronomical Society of Australia in the Louise Webster prize of outstanding research by a scientist in their early postdoctoral career. Additionally, I received both Entrance and Major Science scholarships at the University of Manchester. My student Camila was awarded the John Hodgson postgraduate award 2013. Additionally, I am the only dual Associate Investigator in the two ARC Centres of Excellence, ASTRO 3D and OzGRav, funded at \$30m and \$31.3m respectively.

Media Activities

I have explained a range of scientific concepts in over 150 TV appearances across the ABC, Channel 7’s Sunrise, Nine’s Today and Ten’s The Project, as well as international broadcasts such as Sky News and Al Jazeera, in numerous print (The Age, Sydney Morning Herald,

Herald Sun) and online articles (over a million reads on the conversation alone) as well as my own articles in Cosmos Magazine. I also costarred in Brian Cox's ABC *Stargazing Live* and Todd Sampson's *Life on the Line*. In addition, I have featured several times on the ABC's premier science show Catalyst. I have been very active in radio with over 100 interviews on general science topics for ABC TripleJ, ABC 774, ABC 702 as well as ABC RN and major commercial stations (2UE, 3AW, TripleM) and internationally with BBC Worldservice. Finally, I have co-written and co-starred in *Cosmic Vertigo*, the latest science podcast from ABC Radio National.

Public Presentations

I have been involved in the top science events across the country. These include discussing ethics and big data at Vivid Festival in Sydney's Powerhouse Museum, speaking at TEDx in the Sydney Opera House (viewed over 48000 times online), touring the country with RiAus / BBC Worldwide's Science of Doctor Who Live, interviewing Dr Neil DeGrasse Tyson for 4000 people at MCEC (and Dr Brian Greene before an audience of 1000), discussing science careers to 4500 primary students at National Young Leaders Day at MCEC, hosting Sydney's AstroFest to 2000 people and FameLab's Victorian Finals.

I have created educational material for secondary schools and universities in astronomy and cosmology as well as having spoken to thousands of students in dozens of primary and secondary schools. I am a keen advocate of online content and creative outreach ventures and have created several sell-out shows at the Perth planetarium as well as the WA Museum. I also co-created the CAASTRO sponsored Pint in the Sky, discussing science in the pub, now viewed over 21500 times across 14 episodes.

Finally, I have co-written and starred in a planetarium production on dark matter, DARK, that has been shown at 148 planetariums in 25 countries globally.

Refereed Bibliography

1. J. Park, H.S. Kim, L. Chuanwu, M. Trenti, [A.R. Duffy](#), P.M. Geil, S.J. Mutch, G.B. Poole, P.W. Angel, A. Mesinger, S.J.B. Wyithe (2017) *Dark-ages reionization and galaxy formation simulation XI: Clustering and halo masses of high redshift galaxies* MNRAS, 472, 1995P
2. P.M. Geil, S.J. Mutch, G.B. Poole, [A.R. Duffy](#), A. Mesinger, S.J.B. Wyithe (2017) *Dark-ages reionization and galaxy formation simulation XII: Bubbles at Dawn* MNRAS, 472, 1324G
3. Y. Qin*, S.J. Mutch, [A.R. Duffy](#), P.M. Geil, G.B. Poole, A. Mesinger, S.J.B. Wyithe (2017) *Dark-ages reionization and galaxy formation simulation XIII: AGN quenching of high redshift star formation in ZF-COSMOS-20115* MNRAS, 471, 4345Q **Cites 1**
4. [A.R. Duffy](#), S.J. Mutch, G.B. Poole, P.M. Geil, K. Han-Seek, A. Mesinger, S.J.B. Wyithe (2017) *Dark-ages reionization and galaxy formation simulation IX: Economics of reionizing galaxies* MNRAS, 470, 3300D **Cites 1**
5. C. Correa, J. Schaye, S.J.B. Wyithe, [A.R. Duffy](#), T. Theuns, R.A. Crain, R. Bower (2017) *The formation of hot gaseous haloes around galaxies*. MNRAS submitted
6. Y. Qin*, [A.R. Duffy](#), S.J. Mutch, G.B. Poole, P.M. Geil, P.W. Angel, A. Mesinger, S.J.B. Wyithe (2017) *Dark-ages reionization and galaxy formation simulation VIII: Suppressed growth of dark matter halos during the Epoch of Reionisation* MNRAS, 467, 1678 **Cites 1**
7. Y. Qin*, S.J. Mutch, G.B. Poole, L. Chuanwu, [A.R. Duffy](#), P.M. Geil, P.W. Angel, A. Mesinger, S.J.B. Wyithe (2017) *Dark-ages reionization and galaxy formation simulation X: The small contribution of quasars to reionization* MNRAS submitted **Cites 3**
8. C. Liu, S.J. Mutch, G.B. Poole, P.W. Angel, [A.R. Duffy](#), P.M. Geil, A. Mesinger, S.J.B. Wyithe (2017) *Dark-ages reionization and galaxy formation simulation VII: The sizes of high-redshift galaxies* MNRAS, 465, 3134 **Cites 6**
9. S.J. Mutch, C. Liu, G.B. Poole, P.M. Geil, [A.R. Duffy](#), M. Trenti, P.A. Oesch, G.D. Illingworth, A. Mesinger, S.J.B. Wyithe (2016) *Dark-ages reionization and galaxy formation simulation VI: The origins and fates of the highest known redshift galaxy* MNRAS, 463, 3556M **Cites 6**
10. P.M. Geil, S.J. Mutch, G.B. Poole, P.W. Angel, [A.R. Duffy](#), A. Mesinger, S.J.B. Wyithe (2016) *Dark-ages reionization and galaxy formation simulation V: morphology and statistical signatures of reionization* MNRAS, 462, 804G **Cites 11**
11. S.J. Mutch, P.M. Geil, G.B. Poole, P.W. Angel, [A.R. Duffy](#), A. Mesinger, S.J.B. Wyithe (2016) *Dark-ages reionization and galaxy formation simulation III: Modelling galaxy formation and the Epoch of Reionization* MNRAS, 462, 250M **Cites 20**
12. L. Chuanwu, S.J. Mutch, P.W. Angel, [A.R. Duffy](#), P.M. Geil, G.B. Poole, A. Mesinger, S.J.B. Wyithe (2016) *Dark-ages reionization and galaxy formation simulation IV: UV luminosity functions of high-redshift galaxies* MNRAS, 462, 235L **Cites 25**
13. P.W. Angel, G.B. Poole, A.D. Ludlow, [A.R. Duffy](#), P.M. Geil, S.J. Mutch, A. Mesinger, S.J.B. Wyithe (2016) *Dark-ages reionization and galaxy formation simulation II: Spin and concentration parameters for dark matter haloes during the Epoch of Reionization* MNRAS, 459, 3025P **Cites 11**
14. G.B. Poole, P.W. Angel, S.J. Mutch, C. Power, [A.R. Duffy](#), P.M. Geil, A. Mesinger, S.J.B. Wyithe (2016) *Dark-ages reionization and galaxy formation simulation I: The dynamical lives of high redshift galaxies* MNRAS, 459, 2106A **Cites 14**
15. M. Bernyk, D.J. Croton, C. Tonini, L. Hodkinson, A.H. Hassan, T. Garel, [A.R. Duffy](#), S.J. Mutch, G.B. Poole (2016) *The Theoretical Astrophysical Observatory: Cloud-Based Mock Galaxy Catalogues*. ApJS, 223, 9B **Cites 18**
16. C. Correa*, S.J.B. Wyithe, J. Schaye, [A.R. Duffy](#) (2015c) *The accretion history of dark matter halos III: A physical model for the concentration-mass relation*. MNRAS, 452, 1217C **Cites 49**
17. C. Correa*, S.J.B. Wyithe, J. Schaye, [A.R. Duffy](#) (2015b) *The accretion history of dark matter halos II: The connections with the mass power spectrum and the density profile*. MNRAS, 450, 1521C **Cites 29**
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20. A.R. Duffy, S.J.B. Wyithe, S.J. Mutch, G.B. Poole (2014) *Low mass galaxy formation and the ionising photon budget during reionisation*. MNRAS, 443, 3435D **Cites 16**
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22. S.E. Bryan, S.T. Kay, A.R. Duffy, J. Schaye, C. Dalla Vecchia, C.M. Booth (2013) *The impact of baryons on the spins and shapes of dark matter haloes*. MNRAS, 429, 3316B **Cites 62**
23. A.R. Duffy, M.J. Meyer, L. Staveley-Smith, M. Bernyk, D.J. Croton, B. Koribalski, S. Westerlund (2012c) *Predictions for ASKAP neutral hydrogen surveys*. MNRAS, 426, 3385D **Cites 64**
24. A.R. Duffy, A. Moss, L. Staveley-Smith (2012b) *Cosmological Surveys with the Australian Square Kilometre Array Pathfinder*. PASA, 29, 202D **Cites 11**
25. A.R. Duffy, S.T. Kay, R.A. Battye, C.M. Booth, C.D. Vecchia and J. Schaye (2012a) *Modelling Neutral Hydrogen in Cosmological Simulations*. MNRAS, 420, 2799D **Cites 51**
26. A.R. Duffy, J. Schaye, S.T. Kay and C.D. Vecchia (2011) *Erratum: Dark matter halo concentrations in the WMAP year 5 cosmology*. MNRAS, 415L, 85D **Cites 6**
27. A.R. Duffy, J. Schaye, S.T. Kay, C.D. Vecchia, R.A. Battye and C.M. Booth (2010) *Impact of baryon physics on dark matter structures: a detailed simulation study of halo density profiles*. MNRAS, 405, 2161 **Cites 189**
28. J. Schaye, C.D. Vecchia, C.M. Booth, R.P.C. Wiersma, T. Theuns, M.R. Haas, S. Bertone, A.R. Duffy, I.G. McCarthy and F. vd Voort (2010) *The physics driving the cosmic star formation history*. MNRAS, 390, L61 **Cites 426**
29. A.R. Duffy, J. Schaye, S.T. Kay and C.D. Vecchia (2008b) *Dark matter halo concentrations in the WMAP year 5 cosmology*. MNRAS, 390, L61 **Cites 500**
30. A.R. Duffy, R.A. Battye, R.D. Davies, A. Moss and P.N. Wilkinson (2008a) *Galaxy redshift surveys selected by neutral hydrogen using FAST*. MNRAS, 383, 150 **Cites 20**

Academic Experience

- 08/17 – now **Leonardo Group**, Science Gallery Melbourne
Invited to join scientific steering group of Melbourne node of intl Science Gallery
- 03/17 **Conference Organiser**, Science Meets Parliament, Canberra
Co-organiser of annual SmP event with 200 scientists and over 50 Parliamentarians
- 05/16 – now Early Career Researcher, **Executive Committee**, Science & Technology Australia
Elected to the peak body representing science and technology in Australia
- 2015 – 2017 **Committee Member**, DIISR Australian Astronomy Governance Working Group
By Costing and RBA of future governance models for Australian astronomy provide recommendation to Australian Federal Government DIISR future governance model
- 2015 – now **Member**, International Astronomical Union
Accepted into peak international body for astronomy
- 2014 – 2016 **Time Assignment Committee Member**, Australian Telescope National Facility
Selected to award access for all Australian radio telescopes
- 2012 – now **Referee** Nature, Astrophysics Journal & Monthly Notices for the Royal Astronomical Society
I am referee for three of the top international astronomy journals
- 03/14 – 06/16 **Committee Member**, Women in Astronomy
Elected to the committee (improving diversity and experience of all in astronomy)
- 03/10 – 04/14 **Committee Member**, Australian National Institute for Theoretical Astrophysics
Twice elected to the committee for ANITA (representing WA & Victoria respectively)
- 12/14 **Conference Organiser and Session Chair**, Australian Academy of Science's
Frontiers meeting 'Edges of Astronomy', 2014, Canberra
Co-organiser and chair of outreach session in high-profile event on astronomy
- 04/14 **Conference Organiser**, WiA 2014 workshop at Canberra

- 2012 *Co-organiser of high-profile (~100 attendees) workshop on diversity in astronomy*
 Mid-term Decadal plan for Australian Theoretical Astrophysics
Co-author for the mid-term decadal plan on the future of theory in Australia
- 02/11 **Conference Organiser**, ANITA 2011 meeting at Perth.
Organised a well-attended (~100) annual meeting of theorists in Australia at Perth.
- 12/10 **External interviewer**, Research Software and Systems Engineer (Astronomy Support) position at Swinburne University.
External interviewer for a level HEW8 support position at Swinburne CAS.
- 2010 – now **Member**, Astronomical Society of Australia
Accepted into peak national body for astronomy
- 09/09 – 04/12 Chair, ICRAR Colloquium series, University of Western Australia
Invited and supported external speakers along with leading the talks and discussion
- 09/08 – 06/09 Chair, JBCA Internal Symposium series, University of Manchester
Organise internal speakers and govern the discussion that follows
- 09/05 – 09/06 Chair, Jodrell Bank Observatory Postgraduate Committee, University of Manchester
Ensured there was student input on the Manchester/UMIST merger
- 09/01 – 06/03 Undergraduate Student Representative, Physics, University of Manchester
Forced the removal of a poorly constructed MATLAB programming course

Student Supervision

- 08/17 – 08/20 Ellert van der Velden (Swin PhD) working on “Radio in”
I am the principal supervisor with Prof Croton, Prof Mould and A/Prof Power.
- 09/15 – 09/18 Yuxiang Qin (UMelb PhD) working on “SAM and Hydro Comparison”
I am the external co-supervisor with Prof Stuart Wyithe and Dr Simon Mutch.
- 03/12 – 06/16 Camila Correa (UMelb PhD) working on “The Epoch of Reionisation”
I co-supervised PhD student Camila with Prof Stuart Wyithe (UMelb)
- 05/13 – 08/13 Sebastien Carassou (Paris Sud, Honours) working on “First Galaxy Spins”
I co-supervised an honours exchange student from Paris Sud with Dr Simon Mutch
- 04/10 – 08/10 Alexander Matthews (UWA Honours) worked on “Stacking the Cosmic Web”,
Co-supervised with Prof. Martin Meyer (ICRAR/UWA).
- 11/09 – 02/10 Daniel Beard (iVEC Internship) worked on “Visualization of Galaxy Simulations”,
I was the supervisor, co-supervised by Prof. Paul Bourke (iVEC/WASP) and Prof. Lister Staveley-Smith (ICRAR/UWA). Continued to work with Daniel until 09/10 as a part-time researcher on expanding visualisation efforts.
- 11/09 – 02/10 Morag Scrimgeour (iVEC Internship) worked on “The Baryonic Tully-Fisher Relation”. *I was the supervisor, co-supervised by Prof. Lister Staveley-Smith*

Teaching Experience

- 08/17 – 11/17 Lecturer, “Phy10001: Energy and Motion”, Swinburne University
400 first year BSci/BEng students, ~35 lectures
- 08/17 – 11/17 Lecturer, “NPS20005: Communication for Scientists”, Swinburne University
50 second year BSci/BEng students, ~6 lectures
- 08/17 – 10/17 Research & Development 2, Swinburne University
Supervised 1 student on dark matter detection
- 06/17 – 08/17 Research & Development 1, Swinburne University
Supervised 1 student on dark matter detection
- 02/17 – 06/17 Grand Challenges in Science, Swinburne University
Supervised final year physics student on creating teacher experiments for Mars
- 03/17 – 06/17 Lecturer, “Phy10001: Energy and Motion”, Swinburne University
400 first year BSci/BEng students, ~35 lectures
- 03/17 – 06/17 Lecturer, “NPS20005: Communication for Scientists”, Swinburne University

- 50 second year BSci/BEng students, ~6 lectures*
- 08/16 – 11/16 Lecturer, “Phy10001: Energy and Motion”, Swinburne University
200 first year BSci/BEng students, ~35 lectures
- 03/16 – 06/16 Research & Development 3, Swinburne University
Supervising an undergraduate research project on detecting Bussard Ramjets
- 03/16 – 06/16 Lecturer, “Phy10001: Energy and Motion”, Swinburne University
200 first year BSci/BEng students, ~35 lectures
- 01/16 – 02/16 Research & Development 1, Swinburne University
Supervising 3 undergraduate research projects on dark matter detection and Swinburne’s Mission to Mars (including 3D printing tools for Mars).
- 03/15 – 06/15 Lecturer, “Phy10001: Energy and Motion”, Swinburne University
200 first year BSci/BEng students, ~35 lectures
- 09/14 – 11/14 Swinburne Astronomy Online lecture series “AST80006: Galaxies and their place in the Universe” *20+ students from all backgrounds.*
- 09/13 – 10/13 First year lecture series “PHYC1008: from the Solar System to the Cosmos”
I co-lectured an ‘astronomy 101’ course; 120 students from Arts and Science Faculty, received the highest student rating of any course in the entire department
- 09/10 First year lecture, “CDM Cosmology”, University of Western Australia
An overview ‘Cosmology 101’ course to incoming Physics students
- 09/08 – 06/09 Tutor, First Year Mathematics, University of Manchester
Taught three tutorial groups for an academic year, marked exams
- 09/05 – 09/06 Tutor, First Year Mathematics, University of Manchester
Taught two tutorial groups for an academic year, marked exams

Talks

Conferences

- 12/17 **Invited MC**, “VC Awards 2017”, Swinburne University
- 11/17 **Invited keynote**, “Simple Questions for a Changing World”, Goldcare, Melbourne
- 11/17 **Invited chair**, “Earth Observations”, Science Meets Business, Sydney
- 10/17 **Invited keynote**, “Big Data that is out of this World”, IPWEAQ, Townsville
- 10/17 **Invited MC**, “National Dementia Conference”, Alzheimer’s Australia, MCEC
- 10/17 **Invited speaker**, “Art, Science and Tech in VR”, ACMI Conversations, Melbourne
- 09/17 **Invited chair**, “Understanding the Universe and Improving Life on Earth with Australian Astronomy”, International Astronautical Congress, Adelaide
- 09/17 **Invited speaker**, “Thoughts on Diversity”, SAGE Symposium, Brisbane
- 05/17 **Invited speaker**, “Masterclass in SciComm”, Murdoch University
- 03/17 **Invited speaker**, “Science in the Surveys”, Geological Survey of Victoria
- 03/17 **Invited chair**, “Future for Science interview: Senator Kim Carr”, Parliament House
- 02/17 **Invited lecture**, “Australian Space Science”, Panelist, Questacon, Canberra
- 02/17 **Invited lecture**, “Building science superstars”, Publishers Conference, RiAus
- 01/17 **Invited lecture**, “All about Dark Matter”, U3A, Melbourne
- 01/17 Talk, “Dark Matter Flows” at “Connecting Astrophysical DM with Direct Detection” CAASTRO-COEPP Workshop, University of Melbourne
- 12/16 **Invited speaker**, “Resourcing the future”, Unearthed Demo Day, Perth
- 11/16 **Invited speaker**, “Exploring new frontiers”, International Mining & Resources Conference
- 11/16 **Invited panel**, “Is VR better than real life?”, PAX2016, Melbourne, Australia
- 6/16 **Invited panel** as a male Champion of Change alongside the Victorian Lead Scientist Leonie Walsh, “Diversity in Science Lecture”, Melbourne, Australia
- 2/16 **Invited panel**, “Education & Outreach Workshop”, EPOC, Melbourne, Australia

12/15 **Invited keynote**, “Southern Skies”, LABCON, Melbourne, Australia
 10/15 **Chair** “Make science cool and fund it!”, Junket, Canberra
 09/15 **Invited keynote**, “Southern Skies”, International Beam Instrumentation Conference, MCEC, Australia
 08/15 **Invited panel**, “Are We Alone”, Panel Discussion at National Library, Canberra, Australia <https://youtu.be/azTSi0c0kD4>
 05/15 **Invited panel**, “Data For Good”, Panel Discussion at Vivid Festival, MCA, Sydney, Australia
 05/15 **Invited talk**, “The power of simple questions”, TEDx Sydney, Australia
 12/14 **Chair** “Outreach – Why Reach Out?”, Edges of Astronomy, Australian Academy of Science
 08/14 “First galaxies and DRAGONS”, LyCleak, Stockholm, Sweden
 11/13 “Lighting up the Universe”, CAASTRO Retreat 2013, Torquay Australia
 10/12 **Keynote talk**, “Seeing in the Dark”, OzViz 2012, Perth Australia
 04/12 **Invited talk**, “Stellar Innovations”, TEDx, Perth, Australia
 03/12 **Invited talk**, “Simulations in the Age of ASKAP”, eResearch, CSIRO Supercomputer meeting, Melbourne, Australia
 11/11 “ASKAP Surveys and the Cosmic Evolution of HI”, Bolton Symposium, ATNF
 11/11 Review Talk, “HI in Hydrodynamic Simulations”, Sim Fest, ATNF
 06/11 “The Detection of the Cosmic Web”, Gas in Galaxies, Kloster Seeon, Germany
 02/11 “HI in a Simulated Universe”, ANITA workshop, Perth, Australia
 02/11 “HI in a Simulated Universe”, HI workshop, Perth, Australia
 08/10 “Baryon effects on structure growth”, Darkness Visible, IoA Cambridge, UK
 05/10 MeerKAT/ASKAP/Apertiff Workshop, Arniston, South Africa
 03/10 ANITA Workshop, Swinburne Institute of Technology, Australia
 12/09 “Raw Material of Galaxies: The evolution of HI to $z=2$ ”, The Origin of Galaxies, ESF Research Conference, Obergurgl, Austria
 01/09 “Effect of baryons on Dark Matter”, Virgo Consortium, MPA Garching
 09/08 “Dark Matter Haloes in WMAP5”, UK Cosmology Meeting, UMan, UK
 01/08 “Dark Matter OWLS”, Internal Symposium, JBCA, UMan, UK
 10/07 Journal Club, Jodrell Bank Observatory, UMan, UK
 01/07 “OWLS – Backreactions Count”, Virgo Consortium, University of Leiden, NL

Seminars

8/17 Talking Heads, Federal Attorney General’s Office, Australia
 7/17 RSPE Director’s Colloquium, Australian National University, Australia
 5/16 AAO, Sydney, Australia
 08/15 Mt Stromlo, Australian National University, Australia
 07/15 University of Melbourne, Physics Colloquium, Australia
 12/14 Swinburne CAS, Australia
 11/14 University of New South Wales, Australia
 09/14 University of Western Australia, Australia
 08/14 University of Manchester, UK
 08/14 University of Nottingham, UK
 02/14 University of Sydney, Australia
 02/14 University of Queensland, Australia
 02/14 CASS CSIRO Sydney, Australia
 06/11 University of Leicester, UK
 06/11 Royal Observatory of Edinburgh, UK
 06/11 University of Glasgow, UK
 03/11 University of Queensland, Australia
 12/10 Swinburne CAS, Australia

08/10 University College London, United Kingdom
 05/10 University of Cape Town, South Africa
 03/10 University of Melbourne, Australia
 02/09 University of Sussex, United Kingdom

Outreach

11/17 **"Space", Northcote Primary, Melbourne** (20 5-6 year olds)
 11/17 **"Journey to Mars", Skepticon, City Recital Hall** (550 general public)
 11/17 **"Beyond the Eye with Cara Santa Maria", Athena Theatre** (150 general public)
 08/17 **"The State of the Universe VII", Swinburne University** (450 general public)
 08/17 **"Immersive Science", Mountain Goat Brewery** (150 year 3 - 6)
 08/17 **"Immersive Science", State Library of Victoria** (140 year 3 - 6)
 08/17 **"Exploring Space in Australia", Northcote Primary School** (100 year 3 - 6)
 08/17 **"The Hunt for Dark Matter", Helensvale High School** (450 year 10 - 12)
 08/17 **"Exploring Space in Australia", Tullebudgera State School** (500 year 4 - 6)
 08/17 **"Life, Universe and Everything (we can't see)", Luminary Lectures, GC Library**
Sell out GC Library event opening their National Science Week (400 general public)
 07/17 **Evening with Neil deGrasse Tyson, MCEC**
Host and interviewer for an Evening with NdGT to 4000 people
 06/17 **"Life, the Universe and Everything (we can't see)", StarStuff, Byron Bay**
Spoke to sell out event, with Dr Karl, to 400 amateur astronomers
 06/17 **National Science Quiz, Camberwell Grammar, Melbourne**
I was a panelist at the National Science Quiz, hosted by Charlie Pickering, where alongside ABC's Tom Gleeson, Dr Alice Williamson, Prof Michael Fuhrer and Dr Andi Horvath, we tried to answer science questions to an audience of 200. More fun was to explain our thinking behind the answer, especially when we were wrong!
 06/17 **Aliens, Royal Society of Victoria, Melbourne**
Panel discussion on finding alien life, 80 people
 05/17 **Story of Light, VIVID Festival, Sydney**
Host for 4 astronomers discussing science and big data in astronomy, 250 people
 05/17 **"Interview Lawrence Krauss", Sydney Writers Festival**
One hour chat about Lawrence's new book and science (150 general public)
 05/17 **"Search for Earth 2.0", Pint of Science, Melbourne**
Presentation in the pub (50 general public)
 05/17 **FameLab National finals, British Council, Maritime Museum**
Hosted the national finals of FameLab, where early career researchers have 3 minutes to explain their science with anything but jargon. The winner Nural will now compete at the internationals in the UK.
 04/17 **"Search for Life in Space", Public Q&A, IMAX Melbourne**
Answered Q&A with 100s of year 10/11 following IMAX film
 04/17 **"Shared Skies" AESOP lecture series, Wheeler Centre**
Shared night skies of aboriginal, ancient Greek and modern astrophysics (plus Q&A) to ~100 AESOP workers during a special lunch conversation event.
 03/17 **"Earth 2.0", World Science Festival**
Presentation with Nobel Laureate Prof Brian Schmidt and astronaut Andy Thomas (150 general public)
 03/17 **"Life, Universe and Everything - Brain Food Breakfast", World Science Festival**
Presentation with Cambridge's Dr Harry Cliff (80 general public)
 03/17 **"Other Worldly Water", World Science Festival**
Presentation on water in our Solar System (150 general public)
 03/17 **"Life on Mars: Carmel Johnston interview", Wheeler Centre**
Interviewed crew commander of the HI-SEAS Mars in front of 200 people

- 03/17 **Unearthed Hackathon, Judge, Melbourne**
Judged entries for Hackathon solving Newcrest mining problems
- 03/17 **“Search for Life in Space”, Public Q&A, IMAX Melbourne**
Answered Q&A following the IMAX premiere of the latest Swin/December Media film
- 02/17 **Ruyton Girls School, Leadership Group**
Presentation to the Leadership Group at Ruyton (60 year 6 girls)
- 02/17 **Australian Academy of Technology and Engineering (ATSE Victoria)**
Commencement Dinner talk on dark matter to 50 ATSE fellows
- 11/16 **Raising the Bar Melbourne, Loopbar**
Evening talk on dark matter as part of the City of Melbourne’s RTBMeLB series of talks in bars across the city, sellout event to 60 people
- 11/16 **Swinburne Rotary**
Evening talk to the local rotary club about Swinburne’s research 50 attendees
- 08/16 **School Science Talk Visit (invited), Melbourne High School, Victoria**
A fun chat to over 40 year 9-12 science students (including the Space Science Club) about gravitational waves, black holes and dark matter
- 08/16 **Sydney Science Festival, Powerhouse Museum**
Sell-out evening lecture on ‘The World’s Greatest Experiment’ (300 attendees)
- 08/16 **MAASIVELATE, Sydney Science Festival, Powerhouse Museum**
Opening address for Sydney Science Festival alongside NSW Chief Scientist (~1800)
- 08/16 **Born Digital, Digital Preservation Week, National State Libraries Australasia**
Created several video interviews on Big Data in science and digital preservation
- 07/16 **Swinburne Open Day**
Two keynote talks on Science of SciFi w 50 visitors each
- 07/16 **AstroFest, Sydney, University of Sydney**
Keynote and MC of the inaugural Sydney Astrofest w over 2000 visitors
- 07/16 **STAV Science Leaders’s Conference, Quantum, Vic**
Gravitational wave talk to ~40 leading science teachers from across Victoria
- 06/16 **Charity space conversation with Conversely, Sydney**
An hour space chat for a women’s group Conversely, proceeds (\$1500) went to Sunrise Cambodia for their education programme
- 06/16 **Life, the Universe and Everything (we can’t see), Swinburne Alumni**
Tour of Brisbane, Sydney and Melbourne for Swinburne highlighting current research
- 05/16 **Story of Light, VIVID Festival, Sydney**
Host for 4 astronomers discussing science and big data in astronomy, 250 people
- 05/16 **Scotch College / Hulme Central, Vic**
Two schools (100 students) attended my lecture on Grav’ Waves at Scotch.
- 05/16 **National Science Quiz, Melbourne**
I was a paneiist at the National Science Quiz, hosted by Charlie Pickering, where alongside ABC’s Red Symons, Victoria’s Lead Scientist Leonie Walsh, PM Prize for Science winner Terry Speed and Tanya Ha, we tried to answer science questions to an audience of 200. More fun was to explain our thinking behind the answer, especially when we were wrong!
- 03/16 **FameLab Victoria finals, British Council, Melbourne Museum**
Hosted the state finals of FameLab, where early career researchers have 3 minutes to explain their science with anything but jargon. The winner Noushin will now go to the national finals in Perth, that winner will compete at internationals in UK.
- 03/16 **Evening with Brian Greene, Melbourne Park**
Host and interviewer for an Evening with Brian Greene to 1000 people
- 03/16 **Trinity / Xavier / MLC / Camberwell Boys / Ruyton, Vic**
Five schools (80 science club pupils) attended my lecture on Grav’ Waves at Trinity.
- 03/16 **“National Young Leaders Day” Halogen, MCEC**

- Panel discussion to 4000 primary students from across Victoria about leadership and science with 3 other panellists; Elliot Costello, Anita Loughran, Dr Paul McIntosh
- 02/16 **“Does the Universe have a memory” AESOP lecture series, Wheeler Centre**
Public talk on scientific concepts and then Q&A to ~100 AESOP workers during a special lunch conversation event.
- 11/15 **“Questions on Notice” Interrobang, Athenaeum Theatre**
Alongside Mark Colvin and other panellists we answered audience questions as part of Interrobang, with ~200 attendees there were a lot of varied questions.
- 11/15 **“Does the Universe have a memory” Interrobang, Athenaeum Theatre 2**
Sell-out talk (~100) on the nature of time and memory as part of Interrobang
- 11/15 **“What is the good in the good fight?” Interrobang, Wheeler Centre**
Alongside Anne Summers and Raimond Gaita discussed ethics as part of Interrobang to ~200 attendees at the Wheeler Centre
- 11/15 **“Shared Skies” VCE Schools Talk, University of Melbourne**
Discussed astrophysics and aboriginal astronomy to ~60 Victorian physics teachers
- 08/15 **Trinity / Xavier / MLC / Camberwell Boys / Ruyton, Vic**
Five schools (80 science club pupils) attended my lecture on New Horizons at Trinity.
- 08/15 **“Pluto in the Pub”, Panel Discussion for US Embassy at O’Malleys, Australia**
Alongside NASA’s DSN coordinator Glen Nagle and Nobel Laureate Brian Schmidt
- 08/15 **Evening with Neil deGrasse Tyson, MCEC**
I gave a well-received opening talk to ~4000 people at the NdGT event at MCEC.
- 06/15 **Ballart Astronomical Society (invited)**
I was privileged to be guest speaker at the BAS telling 20 members of all ages about Dark Matter.
- 05/15 **Astronomical Society of Victoria (invited)**
I was privileged to be guest speaker at the oldest amateur astronomy society in the Southern Hemisphere, speaking to 100 members of all ages about searching for life.
- 05/15 **St Kevins School, Vic**
As part of International Year of Light I represented Swinburne and optics at a science fair in St Kevins to ~140 pupils and parents.
- 05/15 **Karijini Experience (invited), Karijini National Park, WA**
I spoke about Indigenous Astronomy alongside Banyjima elders at a weekend cultural festival supported by WA tourism.
- 03/15 **Rio Tinto’s Innovation Fest (invited keynote) SciTech, WA**
Presented scientific discoveries and the innovative technologies that made them possible to 800 year 8-11s from across WA over two days in the SciTech dome.
- 09/14 **Ruyton Girls School, Vic**
I gave a tour of Swinburne to the Principal and Senior Staff of Ruyton.
- 09/14 **The Science Career Carousel (invited keynote)** I was keynote speaker for Pilbara Joblink & Inspire Australia’s Science Career Carousel, giving advice to 50 pupils of Karratha HS and 50 pupils from St Luke’s College.
- 09/14 **CAASTRO in the Classroom, NSW**
I spoke to 17 schools throughout NSW via CitC and the Dept of Education on ‘space’.
- 09/14 **ScienceAlert’s STEM Expo**
I filmed the intro for the new expo and arranged for Swinburne’s booth.
- 07/14 **School visit St Spyridon Primary, Sydney, NSW**
I was invited to teach the entire school in year 2, year 3-4 and year 5-6 age groups, approximately 40 children per group.
- 07/14 **Elemental, Science Works Planetarium, Melbourne, Victoria**
I gave the introductory piece for 3 sell-out art shows exploring science.
- 06/14 **Laneway Learning**

- I was invited to teach a class of 25 interested local Melbournians in a relaxed pub setting on Dark Matter with interactive demos and take-home learning sheets.*
- 06/14 **Science of Doctor Who, Melbourne, Victoria**
One of 3 scientists in the nationally touring BBC Worldwide / RiAus sponsored Science of Doctor Who live show. Discussing the science of the show to 500 people in each of the four sell-out performances.
- 05/14 **Science of Doctor Who, Brisbane, Queensland**
One of 3 scientists in the nationally touring BBC Worldwide / RiAus sponsored Science of Doctor Who live show. Discussing the science of the show to 500 people in each of the two sell-out performances.
- 05/14 **Planting the Weekend, Woodfordia, Queensland**
I was invited to speak on Dark Matter and Indigenous Astronomy at a weekend music festival to audiences of ~100.
- 05/14 **Victorian Space Science Education Centre**
I was invited to teach a class of 15 Strathmore Secondary College science students about Gravity (before a screening of the movie).
- 04/14 **Rebellion/Tomorrow (invited)** Alongside Laura Bates and other high profile speakers I opened the Next Wave festival at the Simon Wheeler Centre.
- 03/14 **School Science Talk Visit (invited)**, Melbourne High School, Victoria
A great chat to over 90 year 9-12 science students (including the school Science Club) about astronomy and dark matter, with a focus on how I got into science.
- 01/14 **Astronomical Society of Victoria (invited)**
I was privileged to be guest speaker at the oldest amateur astronomy society in the Southern Hemisphere, speaking to 60 members of all ages about Dark Matter.
- 12/13 **Laneway Learning**
I was invited to teach a class of 25 interested local Melbournians in a relaxed pub setting on Dark Matter with interactive demos and take-home learning sheets.
- 11/13 **Mt Burnett Observatory AGM (invited)**
I was invited to speak at the AGM for Mt Burnett Observatory to 30 amateur astronomers on Dark Matter.
- 09/13 **An Evening in Space (invited)** Along with Dr Pamela Gay I was the chief speaker to 50 attendees of the inaugural lecture night.
- 09/13 **The Science Career Carousel (invited keynote)** I was keynote speaker for Pilbara Joblink & Inspire Australia's Science Career Carousel, giving advice to 140 pupils of Karratha HS. Then spoke around the Pilbara, to 130 pupils at St Luke's College and year 6-9s Indigenous pupils at Roeburne HS.
- 08/13 **The Science of Doctor Who (podcast)** I was a panellist discussing the science of Doctor Who on the popular SplendidChaps podcast, recorded live to a sell-out at Bar Open.
- 05/13 **Mt Burnett Observatory Science Day (invited)**
I was the chief speaker for the entire day, giving talks and observatory tours to 200 students from Upwey Primary, Upwey South and Emerald Secondary College.
- 04/13 **Are We Alone (Panelist)** The Age sponsored show, Federation Square (250 @ \$30)
- 02/13 **Science Impro Adelaide Fringe**
Comedian/scientist in a successful "Whose line is it anyway" style science show (~40)
- 11/12 **Solar Eclipse Event** at Pascoe Vale Girls College
I spoke at the school to over 100 pupils and 30 staff members in total, as well as setting up and running the telescopes for the solar eclipse.
- 09/12 **Melbourne Schools Science Day talk** - "Answering Big Questions in our Universe"
I gave a very well received hour-long presentation on cosmology to 96 year 10's from Copperfield College (Kings Park and Sydenham campus), Galvin Park Secondary

- College, Kurunjang Secondary College, Montmorency Secondary College, Mount Alexander College, Roxburgh College, Santa Maria College, and Strathmore College.
- Q4 2012 **Planetarium show**, SciTech, WA - *Dark*
A \$50k (with in-kind contributions) production that I co-wrote and star in, as well creating the simulations featured in the production. It covers the latest developments in Dark Matter and Radio Astronomy for secondary schools and general public. Shown in 148 planetariums worldwide in 25 countries with Italian, Korean, Russian, French, Hindi, Telugu translations and Polish, Turkish and Spanish on the way.
- 08/11 **Regional Talk Tour**, Narrogin, Western Australia
Together with WA Chief Scientist Prof Lyn Beazley I spoke at a number of schools in Narrogin: Narrogin Senior High School, East Narrogin Primary School, Narrogin Primary School and St. Matthew's School.
- 08/11 Sponsored **National Science Week** astronomy talks at WA Museum, Kalgoorlie
I was invited to speak about astronomy at the WA Museum for National Science Week.
- 07/11 Sell-out evening debate – *Profs and Pints: “Is Sci-Fi good for Science?”*
Invited expert for a fortnightly debating series organised by SciTech, WA on the topic
- 05/11 Sell-out **planetarium show** – *The Dark Universe*
Evening lecture on Cosmology that I created and presented at SciTech, WA
- 04/11 – 06/11 **SPICE workshops** in cosmology, University of Western Australia
Created and presented a Cosmology Workshop to educate Perth High School Physics teachers for the new secondary curriculum in cosmology/astrophysics
- 05/11 **Regional Talk Tour**, Kalgoorlie, Western Australia
Together with WA Chief Scientist Prof Lyn Beazley I spoke at the following schools: O'Connor Primary School, Boulder Primary School, North Kalgoorlie Primary School, South Kalgoorlie Primary School and Goldfields Baptist College.
- 05/11 Evening Lecture on *The Square Kilometre Array*, Kalgoorlie, Western Australia
I presented an overview of the Square Kilometre Array to three rotary clubs
- 05/11 Evening Presentation on *Astronomy and the SKA*, Kalgoorlie, Western Australia
Presented to a sell-out audience at the WA Museum
- 02/11 Online Cosmology talk, ICRAR, University of Western Australia
Created an online cosmology talk along with online resources for the general public

Filmography

- 3/18 ABC Catalyst (1 episode) ABC
Catalyst special on the Return to the Moon, exploring the changing technologies that have made the race to the Moon between startups not superpowers in the 21st century.
- 11/17 [ABC Sciency](#) (4 episodes) iView
Four episodes filmed in a new, youtube explainer style, for ABC on iView covering a range of astrophysical concepts
- 9/17 [ABC Catalyst](#) (1 episode) ABC
Catalyst special on the Death Dive: Into the Ring of Saturn, the last moments of Cassini filmed at the Deep Space Communication Complex in Canberra live as it happened.
- 4/17 [Stargazing Live: Back to Earth](#) (3 episodes) ABC2
Each evening following the main Stargazing Live event with Brian Cox I was a permanent panel member answering viewer questions in a live format.
- 4/17 [Todd Sampson's Life on the Line](#) (2 episodes) ABC

Science writer for Life on the Line series, co-starring in two episodes with Todd explaining the science in 'Wrecking Ball' and 'Phonebook Bungee' for mainstream audience.

- 4/17 [Stargazing for Beginners](#) (8 episodes) ABC ME
Science co-writer and co-star on accessible children's education show on the night sky and basic astronomy.
- 4/17 [Journey into space with Dr Duffy and Grace](#) (5 episodes) ABC ME
Science writer and co-star on accessible children's education show answering basic questions that we all wonder about.
- 3/17 Cosmic Vertigo (11 episodes) ABC Radio National Podcast
Science co-writer and co-star on podcast series explaining the entire universe.
<http://www.abc.net.au/radionational/programs/cosmicvertigo/>

Interviews/Articles

TV (150 appearances in total)

- 4/12/17 The Project - Ten
Interview on Space Mining
- 4/11/17 ABC Breakfast ()
Regular slot
- 11/17 The Project - Ten
Brief prerecord on Flat Earthers
- 20/11/17 ABC Breakfast ()
Regular slot
- 23/10/17 ABC Breakfast ()
Regular slot
- 9/10/17 ABC Breakfast ()
Regular slot
- 26/09/17 Sky News Business program ()
Chatted about the economics of the National Space Agency
- 25/09/17 Sky News ()
Chatted about the National Space Agency
- 25/09/17 ABC Breakfast ()
Regular slot chatting about National Space Agency
- 16/09/17 Today Weekend ()
Discussed the end of the Cassini mission
- 28/08/17 ABC Breakfast ()
Regular slot chatting about SpaceX spacesuits and NASA freezing supervolcanoes
- 14/08/17 ABC Breakfast ()
Regular slot chatting about National Science Week
- 31/07/17 ABC Breakfast ()
Regular slot chatting about SciVR which sold out all our headsets in 40mins
- 17/07/17 ABC Breakfast ()
Regular slot chatting about space agencies and my own Galactic Recession paper
- 2/07/17 ABC Breakfast ()
Regular slot chatting about first orbiting SMBH
- 25/06/17 9's Weekend Today
Australia's new C-band radar system installed near Exmouth

19/06/17	ABC Breakfast () <i>Regular slot</i>
22/05/17	ABC Breakfast () <i>Regular slot</i>
8/05/17	ABC Breakfast () <i>Regular slot</i>
05/05/17	The Project - Ten <i>Hawking's claims we have only a century to leave Earth</i>
29/04/17	9's Weekend Today <i>Cassini survives its first dive through Saturn's Rings</i>
24/04/17	ABC Breakfast () <i>Regular slot</i>
10/04/17	ABC Breakfast () <i>Regular slot</i>
27/03/17	The Project <i>Discussed ANU citizen scientist project launch to search for 9th planet</i>
13/03/17	ABC Breakfast () <i>Regular slot</i>
27/02/17	ABC Breakfast () <i>Regular slot discussing white dwarfs behaving like neutron star pulsars</i>
23/02/17	The Project <i>Discussed NASA's 7 Earth like worlds discovery</i>
23/02/17	ABC Breakfast <i>Discussed NASA's 7 Earth like worlds discovery</i>
16/02/17	The Project <i>Discussed NASA's space poop challenge</i>
13/02/17	ABC Breakfast () <i>Regular slot discussing white dwarfs behaving like neutron star pulsars</i>
30/01/17	ABC Breakfast () <i>Regular slot discussing micrometeorites on rooftops</i>
16/01/17	ABC Breakfast () <i>Regular slot discussing Hubble spotting a planetary shadow and SpaceX launches</i>
15/01/17	9's Weekend Today () <i>Discussed upcoming near miss asteroid</i>
11/01/17	The Project <i>Discussed the issues with Astrology</i>
20/12/16	ABC News 24 Middays () <i>Discussed Swinburne research on gas rich galaxies</i>
12/12/16	ABC Breakfast () <i>Regular slot discussing laughter in space and meteor showers</i>
11/12/16	9's Weekend Today () <i>Discussed upcoming geminids meteor shower</i>
28/11/16	ABC Breakfast () <i>Regular slot discussing space food and exploring Saturn</i>
25/11/16	ABC Lateline () <i>Discussed potential for crewed missions to Mars</i>
15/11/16	ABC Breakfast () <i>Regular slot discussing supermoons and Australia hosting the Space Olympics</i>
14/11/16	9 News () <i>Discussed supermoon</i>
12/11/16	9's Today () <i>Discussed supermoon</i>

17/10/16 ABC Breakfast ()
Regular slot discussing simulated universes, trillions of galaxies and Orionid meteors

14/10/16 The Project - Ten ()
Explaining simulated universes

3/10/16 ABC Breakfast ()
Regular slot discussing Rosetta, SpaceX to Mars, shrinking Mercury and AFL

30/09/16 The Project - Ten ()
Sketch explaining Rosetta crashing into Comet 67P

30/09/16 ABC News 24 – afternoons
Discussing Rosetta crashing into Comet 67P

22/08/16 ABC Breakfast ()
Regular slot discussing Rockets and Proteins in space

14/08/16 ABC Weekend Breakfast ()
Interview promoting Large Hadron Collider and Sydney Science Festival

11/08/16 7's Sunrise ()
Interview promoting Large Hadron Collider and Sydney Science Festival

8/08/16 ABC Breakfast ()
Regular slot discussing Big Data and digital preservation

2/08/16 The Project - Ten ()
Pre-film discussing the Science of Science Fiction

25/07/16 ABC Breakfast ()
Regular slot discussing Gravitational lensing, DNA scans in space and aligned planet

11/07/16 ABC Breakfast (6min 35s) [ONLINE](#)
Regular slot discussing Juno, triple star planets and Crab Nebula

05/07/16 ABC News 24 – afternoons
Discussing the amazing effort by NASA's Juno in reaching Jupiter

30/6/16 The Project - Ten (2min 59s)
On the desk chatting about if a Grand Solar Minimum will cause an ice age (it won't)

27/06/16 ABC Breakfast (6min) [ONLINE](#)
Regular slot discussing 3D printing in space and CSIRO upgrading China's telescope

14/06/16 ABC Breakfast (6min 11s) [ONLINE](#)
Regular slot discussing feeding black holes and light pollution

30/05/16 ABC Breakfast (4min 23s) [ONLINE](#)
Regular slot discussing the commercial exploration of space

16/05/16 ABC Breakfast (6min 14s) [ONLINE](#)
Regular slot discussing the movement of the Earth's magnetic poles

18/04/16 ABC Breakfast (5min 54s) [ONLINE](#)
Regular slot discussing craft beer with Mars tech and Interstellar travel

13/4/16 The Project - Ten (2min 59s)
The amazing \$100m Breakthrough Starshot to get to Alpha Centauri

7/4/16 The Project - Ten
Discussing threats to pure research by the CSIRO funding cuts

4/04/16 ABC Breakfast (4min 52s) [ONLINE](#)
Regular slot discussing hidden stars, baby planets and inflatable habitats

21/03/16 ABC Breakfast (6min) [ONLINE](#)
Regular slot discussing monster stars and methane on Mars

8/03/16 ABC Breakfast (5min 31s) **ONLINE**
Regular slot discussing NASA's Year in Space project

22/02/16 ABC Breakfast (4min 47s) **ONLINE**
Regular slot discussing spy satellites and super earth atmospheres

13/2/16 [Channel 7's Weekend Sunrise](#) - (4min 03s)
Discovery of gravitational waves

12/2/16 The Project - Ten (2min 55s)
Discovery of gravitational waves

8/02/16 ABC Breakfast (3min 44s) **ONLINE**
Regular slot discussing latest theory of where the Moon comes from

21/1/16 The Project - Ten (2min 33s)
Potential discovery of a ninth planet in our solar system

21/01/16 ABC News 24 Afternoons (5min 12s) **ONLINE**
Potential discovery of a ninth planet in our solar system

18/01/16 ABC Breakfast (8min 09s) **ONLINE**
Regular slot discussing brightest supernova, SpaceX failure and Pluto

15/1/16 The Project - Ten (2min 33s)
The brightest supernovae ever seen

4/01/16 ABC Breakfast (6min 18s) **ONLINE**
Regular slot discussing what's coming up in 2016 in space

21/12/15 ABC Breakfast
Regular slot discussing my highlights of space in 2015

14/12/15 The Project - Ten
Special interview about the upcoming Geminids meteor shower

14/12/15 ABC News 24 – afternoons
Special interview about the upcoming Geminids meteor shower

7/12/15 ABC Breakfast (4min 19s) **ONLINE**
Regular slot discussing space as well as Government's innovation policy

23/11/15 ABC Breakfast (6min 29s) **ONLINE**
Regular slot on celebrating 100 years of GR

9/11/15 ABC Breakfast (5min 53s) **ONLINE**
Regular slot on how Mars lost its atmosphere and the private space race to the moon

6/11/15 Channel 10's Ten News
Short interview on the discovery of how Mars lost its atmosphere

31/10/15 Channel 7's Weekend Sunrise (4min 42s)
Live interview about the flyby of a Halloween asteroid

26/10/15 ABC Breakfast (4min 27s) **ONLINE**
Regular slot on Hubble finding the faintest most distant galaxies

12/10/15 ABC Breakfast (4min 22s) **ONLINE**
Regular slot on Pluto's blue skies and NASA's Apollo mission photos online

28/09/15 ABC Breakfast (5min 19s) **ONLINE**
Regular slot discussing NASA's mysterious Mars announcement and eclipses

14/09/15 ABC Breakfast (5min 19s) **ONLINE**
Regular slot discussing Tornadoes on the Sun

31/08/15 ABC Breakfast (6min 02s) **ONLINE**
Regular slot discussing NASA's year long isolation experiment

17/08/15 ABC Breakfast (6min 02s) **ONLINE**
Regular slot discussing space lettuce and Comet 67P

4/08/15 ABC Breakfast (6min 51s) **ONLINE**
Regular slot on galaxy explorer, comets and Pluto's haze

31/06/15 Channel 7's The Daily Edition (4min 42s)
Live chat about the psychology of the moon (not much basically!)

25/06/15 Channel 7's Weekend Sunrise (4min 42s)
Live interview on the Kepler 452b discovery 'older cousin'

24/07/15 ABC Breakfast (5min 23s) **ONLINE**
Special interview on the Kepler 452b discovery 'older cousin'

21/07/15 ABC The Drum (5min 27s) **ONLINE**
First appearance on the desk for the Breakthrough Initiative

21/07/15 Sky News
Brief interview on the Breakthrough Initiative

15/07/15 The Project - Ten
Went into the studio to chat about the Pluto Flyby

9/07/15 ABC Lateline (10min 21s) **ONLINE**
Special lateline interview on the New Horizons mission to Pluto

6/07/15 ABC Breakfast (5min 26s) **ONLINE**
Regular slot, speaking about black holes and sinkholes

15/06/15 ABC Breakfast (4min 28s) **ONLINE**
Special interview on the surprise reawakening of the Philae Lander

8/06/15 ABC Breakfast (6min 33s) **ONLINE**
Regular slot, speaking about NASA's UFO parachute & tumbling moons

7/06/15 Channel 7's Weekend Sunrise (6min 19s)
Long prerecord on site of Stawell Dark Matter detector

25/05/15 ABC Breakfast (5min 52s) **ONLINE**
Regular slot, speaking about Sun's future and exploring Ceres

8/05/15 The Project - Ten
Small pre-record on NASA crowdsourcing solutions to get to Mars

11/05/15 ABC Breakfast (6min) **ONLINE**
Regular slot, speaking about rockets and the International Space Station

27/04/15 ABC Breakfast (4min 32s) **ONLINE**
Regular slot, speaking about MESSENGER crashing into Mercury and Hubble 25

23/04/15 The Project - Ten
Studio interview about the 25th anniversary of the Hubble Space Telescope

9/04/15 ABC News 24 – middays **MISSING**
Breaking story about the origins of our moon

2/04/15 The Project - Ten
Piece on the upcoming lunar eclipse

30/03/15 ABC Breakfast **ONLINE**
Regular slot, speaking about meeting the PM and dark matter

16/03/15 ABC Breakfast **ONLINE**
Regular slot, explaining new dwarf galaxies and water on Jupiter's moons

3/03/15 ABC Catalyst – Sun's lost sibling (7min 58s) **ONLINE**
Indepth interview on star formation

27/02/15 ABC Breakfast **ONLINE**
Second appearance as guest discussing the week's (non-science) news

17/02/15 ABC Catalyst – Alien Technology (11m 49s) **ONLINE**
Spoke on SETI and the Fermi paradox

16/02/15 ABC Breakfast **ONLINE**
Regular slot on weighing dark matter in galaxy with a stuffed toy

20/01/15 ABC Breakfast **ONLINE**
Regular slot on near-miss asteroid / cyclone from space and Beagle2 lander discovery

6/01/15 ABC Breakfast **ONLINE**
Regular slot introduced some upcoming stories for 2015

23/12/14 ABC Breakfast **ONLINE**
Regular slot chatting about top astro stories in 2014

9/12/14 ABC Breakfast **ONLINE**
Regular slot chatting about Orion launch and New Horizons approaching Pluto

8/12/14 The Project - Ten
Short prerecord about the Einstein Digital Paper Archive

05/12/14 ABC Breakfast **ONLINE**
First appearance as guest discussing the week's (non-science) news

18/11/14 ABC Breakfast **MISSING**
Regular slot chatting about comet, meteor shower and galaxy losing its gas

13/11/14 The Project - Ten
A live interview on popular commercial evening show about landing on a comet

13/11/14 ABC3 News on landing by Rosetta / Philae on comet **ONLINE**
Prerecord interview for ABC3 flagship children's news service

13/11/14 ABC Breakfast on landing by Rosetta / Philae on comet
Primetime morning studio chat about historic landing on comet

30/10/14 ABC News 24 – afternoons
Seventh chat in my regular space slot; rocket exploding and planet lifeline

28/10/14 ABC Breakfast on Space
Third chat of regular space roundup slot 'on the couch' on Interstellar's BlackHole

16/10/14 ABC Catalyst – Virtual Universe (8m 41s) **ONLINE**
Indepth interview as the local expert for Catalyst piece on new supercomputer sim

08/10/14 Channel 10 – The Project
Interview about Lunar Eclipse 'Blood Moon'

08/10/14 ABC Breakfast on Space
Second chat of regular space roundup slot 'on the couch' on Lunar Eclipse

18/09/14 ABC News 24 – afternoons
Sixth chat in my regular space slot; on oversized blackholes & Monet's painting

16/09/14 ABC Breakfast on Space
First chat of regular space roundup slot 'on the couch'

8/09/14 ABC Breakfast on 2014RC asteroid
Primetime morning studio chat about a near miss asteroid

04/09/14 ABC News 24 – afternoons
Fifth chat in my regular space slot; on space whisky & MW's new home Laniakea

02/09/14 ABC News 24 – evenings
Live interview on how I viewed the Chief Scientist's 2025 STEM strategy plan

11/08/14 Channel 10 – The Project
Opening prerecord on the Supermoon

11/08/14 Channel 7 - several outlets morning
Interview about the Supermoon

10/08/14 ABC News 24 - morning
Interview about the Supermoon

07/08/14 ABC News 24 - afternoons
Fourth chat in my regular slot rounding up space news for the ABC

11/07/14 Sky News - afternoons
Live interview about the Australian Fireball

10/07/14 ABC News 24 - afternoons
Third chat in my regular slot rounding up space news for the ABC

4/07/14 Al Jazeera Interview on Higgs Boson anniversary **ONLINE**
Live discussion about the Higgs discovery, what it means and where next

26/06/14 ABC News 24 - midday
Short notice interview on a newly discovered triple supermassive blackhole

12/06/14 ABC News 24 - afternoons **ONLINE**
Second chat in my regular slot rounding up space news for the ABC

20/05/14 ABC Breakfast on Science of Doctor Who
Primetime interview 'on the couch' chatting about SoDWLive show

29/04/14 ABC Breakfast on Eclipse **ONLINE**
Primetime interview 'on the couch' chatting about the upcoming solar eclipse

18/04/14 The Project - Ten
A live interview on popular commercial evening show about a new Earth-like planet

22/03/14 Sunrise Weekend - Seven
A live interview on popular commercial breakfast show about the Inflation discovery

20/03/14 ABC News 24 - afternoons
First chat in a new regular slot rounding up astronomy for the ABC

21/01/14 ABC Breakfast on Rosetta **ONLINE**
Primetime TV interview about the recently awoken Rosetta spacecraft

20/09/13 Al Jazeera Interview on Stephen Hawking **ONLINE**
Live discussion on Stephen Hawking, to a global audience

Radio (limited selection tracked since 03/14 >100 noted)

4/12/17 ABC Sydney Breakfast
Fortnightly space segment with Robbie Buck

21/11/17 ABC Melbourne Afternoons
Last live Q&A on air with Clare Bowditch

20/11/17 ABC Sydney Breakfast
Fortnightly space segment with Robbie Buck

15/11/17 3AW Afternoons
Discussing physics and psychology in "Beyond the Eye" stage show

23/10/17 ABC Sydney Breakfast
Fortnightly space segment with Robbie Buck

20/10/17 ABC RN Drive
Chat with Patricia Karvelas

10/10/17 ABC Melbourne Afternoons
Live Q&A on air with Clare Bowditch

9/10/17 ABC Sydney Breakfast
Fortnightly space segment with Robbie Buck

27/09/17 TripleJ Mornings
Live Q&A on air with Dylan Alcott (and discussion of Space Agency)

26/09/17 ABC Radio National / BBC Worldwide / BBC Five Live / 2SER / Fiveaa
Discussions of Elon Musk's new Mars vision

26/09/17 ABC Melbourne Afternoons
Live Q&A on air with Clare Bowditch (replacement host: Susan Carland)

25/09/17 ABC Sydney Breakfast
Fortnightly space segment with Robbie Buck

12/09/17 ABC Melbourne Afternoons
Live Q&A on air with Clare Bowditch

11/09/17 ABC Sydney Breakfast
Fortnightly space segment with Robbie Buck

29/08/17 ABC Melbourne Afternoons
Live Q&A on air with Clare Bowditch

28/08/17 ABC Sydney Breakfast
Fortnightly space segment with Robbie Buck

15/08/17 ABC Melbourne Afternoons
Live Q&A on air with Clare Bowditch

14/08/17 ABC Sydney Breakfast
Fortnightly space segment with Robbie Buck

11/08/17 ABC Gold Coast
Promotion of National Science Week in the Gold Coast

9/08/17 3AW with Tom Elliott
Talking about Halo around the Sun

1/08/17	ABC Melbourne Afternoons <i>Live Q&A on air with Clare Bowditch</i>
31/07/17	ABC Sydney Breakfast <i>Fortnightly space segment with Robbie Buck</i>
18/07/17	ABC Melbourne Afternoons <i>Live Q&A on air with Clare Bowditch</i>
17/07/17	ABC Sydney Breakfast <i>Fortnightly space segment with Robbie Buck</i>
14/7/17	TripleJ Hack (ShakeUp) <i>Full 30 min chat on space agency, climate change and challenges with rental prices</i>
6/7/17	ABC Radio National <i>Discussion of Juno flyby of Jupiter</i>
20/06/17	ABC Melbourne Afternoons <i>Live Q&A on air with Clare Bowditch</i>
19/06/17	ABC Sydney Breakfast <i>Fortnightly space segment with Robbie Buck</i>
6/06/17	ABC Melbourne Afternoons <i>Live Q&A on air with Clare Bowditch</i>
5/06/17	ABC Sydney Breakfast <i>Fortnightly space segment with Robbie Buck</i>
23/05/17	ABC Melbourne Afternoons <i>Live Q&A on air with Clare Bowditch</i>
22/05/17	ABC Sydney Breakfast <i>Fortnightly space segment with Robbie Buck</i>
15/05/17	3AW with Neil Mitchell <i>Talking about NASA Live Stream</i>
9/05/17	ABC Melbourne Afternoons <i>Live Q&A on air with Clare Bowditch</i>
8/05/17	ABC Sydney Breakfast <i>Fortnightly space segment with Robbie Buck</i>
11/04/17	ABC Melbourne Afternoons <i>Live Q&A on air with Clare Bowditch</i>
10/04/17	ABC Sydney Breakfast <i>Fortnightly space segment with Robbie Buck</i>
7/04/17	ABC Radio National with Fran Kelly / ABC Newcastle <i>Explained the Stargazing Live outcome of a new compact solar system</i>
28/03/17	ABC Melbourne Afternoons <i>Live Q&A on air with Clare Bowditch</i>
27/03/17	ABC Sydney Breakfast <i>Fortnightly space segment with Robbie Buck</i>
27/03/17	ABC Melbourne Drive <i>Public hunt for 9th planet with Raf Epstein</i>
14/03/17	ABC Melbourne Afternoons <i>Live Q&A on air with Clare Bowditch</i>
13/02/17	ABC Sydney Breakfast <i>Fortnightly space segment with Robbie Buck</i>
28/02/17	ABC Melbourne Afternoons <i>Live Q&A on air with Clare Bowditch</i>
27/02/17	ABC Sydney Breakfast <i>Fortnightly space segment with Robbie Buck</i>
23/02/17	Chat to 3AW <i>Discussion of the 7 Earth-like worlds</i>

14/02/17	ABC Melbourne Afternoons <i>Live Q&A on air with Clare Bowditch</i>
13/02/17	ABC Sydney Breakfast <i>Fortnightly space segment with Robbie Buck</i>
7/02/17	ABC Melbourne Evenings <i>Promoted Melbhenge event with Lindy Burns</i>
31/01/17	ABC Melbourne Afternoons <i>Live Q&A on air with Clare Bowditch</i>
30/01/17	ABC Sydney Breakfast <i>Fortnightly space segment with Robbie Buck</i>
17/01/17	ABC 774 Afternoons <i>Live Q&A on air with Clare Bowditch</i>
16/01/17	ABC 702 Breakfast <i>Fortnightly space segment with Robbie Buck</i>
20/12/16	ABC 774 Mornings <i>Live Q&A on air with Steve</i>
13/12/16	TripleJ Hack <i>Round up of space and tech in 2016</i>
29/11/16	ABC 774 Afternoons <i>Live Q&A on air with Clare Bowditch</i>
28/11/16	ABC 702 Breakfast <i>Tenth fortnightly space segment with Robbie Buck</i>
14/11/16	TripleJ Hack <i>Chatted supermoon</i>
14/11/16	Fiveaa <i>Chatted supermoon</i>
14/11/16	ABC 702 Breakfast <i>Ninth fortnightly space segment with Robbie Buck</i>
31/10/16	ABC 702 Breakfast <i>Eighth fortnightly space segment with Robbie Buck</i>
28/10/16	ABC Radio National <i>Discussion of potential causes for ExoMars crash</i>
25/10/16	ABC 774 Afternoons <i>Live Q&A on air with Clare Bowditch</i>
17/10/16	ABC 702 Breakfast <i>Seventh fortnightly space segment with Robbie Buck</i>
30/09/16	ABC TripleJ Hack Friday ShakeUp <i>Panel discussion on SpaceX getting to Mars, rebelling against parents and Wyatt Roy</i>
3/10/16	ABC 702 Breakfast <i>Sixth fortnightly space segment with Robbie Buck</i>
29/09/16	ABC 774 Afternoons <i>Live Q&A on air with Clare Bowditch</i>
22/08/16	ABC 702 Breakfast <i>Fifth fortnightly space segment with Robbie Buck</i>
14/08/16	ABC 702 Weekend Show with Dom Knight <i>Discussion alongside CSIRO's Lisa Harvey-Smith for National Science Week</i>
11/08/16	ABC Radio National Latenight Live <i>Discussion of STEM and Sydney Science Festival</i>
7/08/16	ABC 702 Breakfast <i>Fourth fortnightly space segment with Robbie Buck</i>
3/08/16	2UE <i>Discussion of the planetary alignments</i>

27/07/16 ABC 774 Afternoons
Live Q&A on air with Clare Bowditch

26/07/16 3AW Breakfast
Planetary alignment

25/07/16 ABC 702 Breakfast
Third fortnightly space segment with Robbie Buck (Dom Knight filled in!)

18/07/16 ABC RN PM
Interview about SpaceX landing (again)

18/07/16 3AW mornings with Neil Mitchell
Live chat about what causes sunrises

11/07/16 ABC 702 Breakfast
Second fortnightly space segment with Robbie Buck

05/07/16 ABC 720 Perth / 3AW / SBS International / 2GB with Ross Greenwood
Discussing the successful arrival of Juno into orbit around Jupiter

04/07/16 ABC RN Breakfast with Fran Kelly
In the studio discussing the imminent arrival of NASA's Juno to Jupiter

30/06/15 [ABC Conversations](#) with Richard Fidler
My return to the Conversations with Richard, focussing on dark matter and scifi

29/06/16 ABC 774 Afternoons
Live Q&A on air with Dave Astle

27/06/16 ABC 702 Breakfast
First new fortnightly space segment with Robbie Buck

10/06/16 [ABC PM](#)
Interview about space laws that currently won't allow private exploration of the moon

2/06/16 3AW Morning
Chat about the dangers of space junk

31/06/16 ABC Classic FM
An hour-long chat with Margaret Throsby

25/05/16 ABC 774 Afternoons
Live Q&A on air with Clare Bowditch

10/05/16 ABC 702 Breakfast
Live Q&A on air with Robbie Buck

6/05/16 ABC 702 afternoons
Chat about asteroids

27/04/16 ABC 774 Afternoons
Live Q&A on air with Clare Bowditch

14/04/16 3AW
Live call in questions

13/4/16 ABC Radio National Drive
Long interview about the \$100m Breakthrough Starshot

11/04/16 ABC TripleJ Hack
Discussing economics of space travel after SpaceX landed a rocket on a barge

11/04/16 ABC 774 Afternoons
Live Q&A on air for 20 minutes with David Astle

10/03/16 3AW Morning
Live call in question on whether there is sound in space

25/02/16 ABC 774 Victoria with Red Symmons
A cosmic close shave with an asteroid flyby

08/02/16 ABC 774 Victoria
Second chat about Melbhenge

22/01/16 3AW
Phone interview about the ninth planet

18/01/16 936 ABC Hobart Drive with Louise Saunders
Chat about brightest ever exploding star

13/01/16 ABC Radio National Breakfast with Sarah Dingle
My favourite books of 2015

04/01/16 ABC 774 Victoria / ABC News Radio
Spoke about what's coming up in space 2016

30/12/15 ABC 774 Victoria
Spoke about my highlights of space in 2015

14/12/15 ABC 774 Victoria / 3AW / TripleM / ABC PM
Spoke about the Geminids meteor shower

04/11/15 ABC 774 Victoria with Jon Faine
Promoting Melbourne's equivalent to Stonehenge – Melbhenge !

29/09/15 2UE / 3AW / Tasmania Talks / Fiveaa
Discovery of liquid water on Mars

28/09/15 ABC World Today with Eleanor Hal
Chat to ABC about the lunar eclipse

28/09/15 ABC 774 Victoria with Red Symmons / ABC News Radio / Fiveaa
NASA's mysterious Mars announcement

31/07/15 ABC PM
The discovery of organic material on the comet 67P

26/07/15 Triple R – Einstein a go go
Long interview in the studio chatting about alien worlds and Pluto

24/07/15 3AW / Gold 104.3 Breakfast with Brig and Lehmo / ABC 774 with Red Symmons / ABC News Radio
Earth's 'cousin' discovered by Kepler

21/07/15 ABC TripleJ Hack / ABC Victoria / Fiveaa / ABC News Radio with Marius Benson
Breakthrough Initiative on searching for aliens

15/07/15 ABC PM
The human side of exploring Pluto

14/07/15 ABC TripleJ with Veronica and Lewis
Long chat about New Horizons flyby of Pluto and listener questions

07/07/15 ABC World Today with Eleanor Hal
Chat to ABC about finding hidden supermassive blackholes

15/06/15 ABC TripleJ with Veronica and Lewis
Chat about World Asteroid Day

09/06/15 BBC Worldservice Outside Source with Ben James
A chat to BBC radio worldwide on NASA's 'UFO' looking spacecraft

09/04/15 ABC Conversations with Richard Fidler
A rebroadcasting of my hour long chat with Richard on all things astronomy

01/04/15 ABC Ballarat
Fill in for Fred Watson's regular space segment

25/03/15 ABC PM
Experience of discussing science with the Prime Minister at Science Meets Parliament

25/03/15 ABC AM
Discussion on the role of Science Meets Parliament in science policy

26/02/15 ABC Regional Victoria
Chatted about a daylight meteor over Melbourne

25/02/15 ABC 774 Drive
Chatted about a daylight meteor over Melbourne

27/01/15 ABC 666
Live phone in chat on the 11th year anniversary of the Opportunity Rover

21/01/15 FiveAA afternoons with Will Gooding

13/01/15 *Phone interview about a near miss asteroid*
 ABC 774 Mornings
Went into the studio to chat about space in 2015
 07/01/15 3AW Afternoons with Darren James
Chat in the studio about space with live call in questions
 19/12/14 ABC Radio National Drive with Rebecca Huntley
Pre-record on the top astro stories of 2014
 18/12/14 ABC 774 Drive
Phone interview about methane on Mars
 04/12/14 Triple M with the 1 percenters
Chatted about the end of the world
 20/11/14 Triple M with the 1 percenters
Chatted about spinning black holes
 13/11/14 ABC Current Affairs / ABC AM PM Today Show / ABC Gold Coast / FiveAA with Wil / Panorama Syn / 2GB / Triple M with the Grill Team
Comet landing
 12/11/14 ABC Radio National / ABC PM / ABC QLD Regional / ABC Victoria Drive / ABC 774 with Raf Epstein
Comet landing
 11/11/14 ABC 774 with Raf Epstein
Shrinking Great Red Spot
 29/10/14 ABC Sydney 702 / ABC Newcastle 1233
Breaking story of exploding rocket
 10/14 ABC Radio National Drive with Ali Waleed
Phone interview about the status of Pluto as a planet
 10/14 Triple M with the Grill Team / Gold 104.3 with Briggs and Lehmo / 4KQ Breakfast / ABC North West / SBS / 2WEB / ABC 774 / 2SER / 2UE / 3AW with Dennis Walter
Phone interviews about the Lunar Eclipse
 09/14 ABC 774 with Dave O'Neil
Live chat in the studio about Mars
 09/14 2SER mornings
Phone interview about solar flares
 09/14 FiveAA afternoons with Will Gooding
Phone interview about SpaceX and building cities on Mars
 09/14 ABC 774 with Francis Leach
Phone interview about gecko's in space
 09/14 3AW
Phone interview about the supermoon
 08/14 ABC PM show
Long prerecord on ABC's PM show about Rosetta craft orbiting a comet
 07/14 Syn FM News Interview
Chatted about the solar flare that nearly wiped out electronics across the Earth.
 07/14 6PR882 Perth, 96 FM Perth, 3AW Melbourne, 4BC Brisbane, Triple M, 666 ABC Canberra and many more
Syndicated interview on the fireball seen above Australia
 07/14 ABC Radio National 'Behind the Tweed'
5min interview about my own research into the First Galaxies
 07/14 774 ABC Melbourne with Jon Faine
Chatted about my involvement in upcoming theatre production 'Elemental'.
 06/14 Triple M 1percenters with Matt and Joe
Pre-record on the Universe ending combination of Inflation and the Higgs Boson
 06/14 ABC Queensland Rural Afternoons with Rebecca McLaren

Remote link to chat about the Science of Doctor Who with costar Rob Lloyd.
 05/14 3SSR Interview
 Long chat about science and my own life with Swinburne Student Radio.
 05/14 774 ABC Melbourne Afternoons with Red Symons
 Went into the studio to chat about the Science of Doctor Who with costar Rob Lloyd.
 05/14 702 ABC Sydney Evenings with Dom Knight
 A long chat about the Science of Doctor Who with costar Rob Lloyd
 05/14 ABC Sunshine Coast Mornings with Ursula
 Live phone interview discussing Indigenous Astronomy and Science of Doctor Who.
 04/14 774 ABC Melbourne Mornings with Nicole Chvastek
 Went into the studio to chat about the upcoming solar eclipse.
 04/14 ABC Radio Australia Drive with Phil Kafcaloudes
 Went into the studio to chat about the upcoming solar eclipse.
 04/14 774 ABC Melbourne Afternoons with Ryk Goddard
 Went into the studio to chat a new Earth-like planet and took live calls.
 03/14 774 ABC Melbourne Afternoons with Richard Stubbs
 Went into the studio to chat about breaking news story of detection of Inflation.
 03/14 2UE News Interview
 Gave pre-recorded interview about breaking news story of detection of Inflation.
 03/14 ABC Radio National with Waleed Aly
 7min interview about breaking news story of detection of Inflation.
 03/14 ABC Radio Newcastle with Paul Bevan
 Quick interview about breaking news story of detection of Inflation.
 03/14 612 ABC Brisbane – Conversations
 An hour long chat about everything in astro, and why I got into science, nationally.
 02/14 Triple R – Einstein a go go
 Long interview in the studio chatting about ancient stars for the Einstein a go go team
 02/14 774 ABC Melbourne Afternoons with Richard Stubbs
 Went into the studio to chat ancient stars and ended up discussing creationists
 02/14 612 ABC Brisbane Afternoons with Matt Webber
 Chatting about the oldest star and the upcoming Science of Doctor Who Show.
 02/14 936 ABC Hobart Drive with Louise Saunders
 Long chat about the Australian discovery of the lowest metallicity (hence oldest) star
 01/14 ABC Radio Breakfast News on Rosetta
 I was quoted on the recently awoken Rosetta spacecraft for ABC Breakfast Radio
 01/14 3AW Drive with Tom Elliot on the ‘Quiet Sun’
 A potentially difficult interview on the Quiet Sun, in which I insisted no link to climate change (ultimately winning over the host with humour but getting the science right)
 01/14 774 ABC Talk with Michael Veitch on the ‘Aurora’
 A short Q&A on Aurora turned into 50minutes of continuous caller questions.
 Exhausting but incredible fun.
 11/13 ABC World Today show (and national news bulletins around Australia)
 Long prerecord on ABC’s World Today show about Chelyabinsk asteroid impact
 10/13 2UE Stir with Brian Carlton
 Live Interview by Brian at peak slot on NSW radio show about lone exoplanets
 10/13 ABC PM show (and national news bulletins around Australia)
 Long prerecord on ABC’s PM show about UN efforts to save Earth from asteroids
 09/13 Triple R News Interview
 Interview for national radio show on Voyager 1 leaving the Solar System
 08/11 ABC Goldfields Breakfast with John Wibberley
 Live interview by regional radio show on SKA and an upcoming talk in Kalgoorlie
 07/11 ABC 720 Drive with Russell Wolf

Print (limited selection tracked since 03/14)

- 21/07/17 [The Australian](#), interview about the Australian Space Agency Review
- 22/03/17 [The Australian](#), interview with Minister Karen Andrews on SmP
- 8/02/17 [The Age](#) / SMH *Interview on Melbhenge*
- 1/01/17 Qantas Magazine, iQ section, for January. *Two page interview on technology*
- 8/12/16 The Australian, interview clumpy dark matter
- 13/8/16 Weekend Australian, interview on science of LHC and the Collider exhibit
- 12/8/16 Sydney Morning Herald, feature on science of LHC and the Collider exhibit
- 8/16 [Washington Post](#) “*A new reason we haven’t found life in the Universe*”
- 7/16 Herald Sun, featuring my Science of Science Fiction talk for Swinburne Open Day
- 5/16 [Cosmos Magazine](#), writer “*What now for NASA’s magnetic field probes*”
- 4/16 The Age / [SMH](#) A career feature on me, and my efforts to teach STEM
- 4/16 The Australian “*Oxygen star stuns scientists*” Also featured [online](#)
- 3/16 [The Age](#) / SMH *Interview on evidence for seas on Pluto*
- 2/16 The Age / [SMH](#) *Interview on a cosmic close shave by a flyby asteroid*
- 2/16 [Cosmos Magazine](#), writer “*Spotted – the galactic birthplace of a fast radio burst*”
- 2/16 [Cosmos Magazine](#), writer “*Got them, Gravitational waves detected – at last*”
- 12/15 The Age *Interview on the Geminids meteor shower*
- 11/15 [Broadsheet](#) “*How to catch a ghost*”
- Long interview on my work on dark matter, Interrobang speeches and education
- 10/15 [The Australian](#) “*Solar system theory jettisoned by Rosetta probe*” Also featured online
- 6/15 [Belfast Telegraph](#) feature
- National newspaper in Northern Ireland ran a feature on my efforts in Australia
- 5/15 Men’s Style Magazine vol 64 (Winter 2015)
- 2015 *Men Of Influence List* – *bizarre but an honour to be amongst 35 other legends under 45*
- 2/15 Smith Journal vol 14
- Dark Matter Hunters* – Interview on Stawell DM detector
- 23/2/15 [Sydney Morning Herald](#) / The Age Discussion of the Planck results on gravitations
- 11/14 The Age *Interview on shrinking great red spot*
- 10/14 Herald Sun *Interview on time travel*
- 07/14 The Age *Issues surrounding the Inflation discovery*
- 07/14 Sydney Morning Herald / French Tribune / International Business Times
- Repeated interviews on the ‘Big Quiet’, with nearly no sunspots visible.*
- 06/14 Herald Sun *Review of the search for Earth 2.0 in the Milky Way*
- 05/14 The Age / Sydney Morning Herald / Brisbane Times 2nd part
- Interview (recorded vid) on the search for life on other Solar System moons*
- 05/14 The Age / Sydney Morning Herald / Brisbane Times 1st part
- Interview (recorded vid) on the search for life on Jupiter’s moon Europa*
- 05/14 The Irish Times
- “*Reaching for the stars in Australia*” interview about emigrating to Oz for science
- 03/14 Sydney Morning Herald
- “*BICEP discovery of Grav Waves and Inflation*” comment on the breaking discovery
- 01/14 The Age / The Voice
- “*First Astronomers*” a lovely piece on my efforts in the Pilbara teaching indigenous astronomy to all children in the region
- 09/13 Pilbara News, Western Australia
- Interview by Pilbara regional newspaper on my “Career Carousel” show*

09/13 The Age / Sydney Morning Herald / Brisbane Times
Interview on the success of Voyager 1 leaving the Solar System

04/13 The Age / Sydney Morning Herald / Brisbane Times
Interview on the chance for life on rogue exoplanets

04/13 The Age / Sydney Morning Herald / Brisbane Times
Interview on the search for exoplanets, and a plug of upcoming "Are We Alone" show

12/12 The Age
"Reach for the Heavens" extended article on my with the Australian SKA Pathfinder

11/11 Sunday Times Magazine
Voted as one of the Top 40 "Best and Brightest" in Western Australia

08/11 [Nature](#) Interviewed by science magazine Nature

8/11 Kalgoorlie Miner, Western Australia
Interview by Kalgoorlie regional newspaper on upcoming evening cosmology lecture

05/11 Kalgoorlie Miner, Western Australia
Interview by Kalgoorlie regional newspaper on the SKA

Online (limited selection tracked since 03/14)

17/07/17 The Conversation [The Great Galactic Recession](#)

13/02/17 The Conversation [Baby galaxies light up the universe](#)

8/02/17 BBC World News ([front page](#)) about Melbhenge

28/11/16 The Conversation [Thanksgiving space dinners, threading Saturns rings and impossible drives](#)

28/11/16 [News.com.au](#)
Feature on the impossible EM drive rocket and why I think it's wrong

11/8/16 SBS Online interview on Sydney Science Festival

25/7/16 The Conversation [Hubble explores the Final Frontier](#)

5/7/16 ABC The Drum
[Juno reaches Jupiter in a golden age of space exploration](#)

11/4/16 ABC The Drum

24/5/16 The Conversation [Huge solar storms may be key to life on Earth](#)

16/5/16 The Conversation [Earth's magnetic heartbeat](#)

4/5/16 ABC The Drum
[Budget 2016: Scientists live to fight another year](#)

11/4/16 ABC The Drum
[Space race: Private are realizing our dream](#)

1/4/16 The Conversation [Something new under a \(dead\) sun](#)

24/2/16 [RiAus](#) Brew HaHa
Debunking a conspiracy about 'Space Music' heard on Apollo 10

13/2/16 [Mamamia](#) / [VICE](#) / [theconversation](#)
Discovery of gravitational waves

18/1/16 Australian Geographic / Huffington Post / IFLS
The alignment of all 5 visible planets this month
<http://www.australiangeographic.com.au/news/2016/01/the-planets-are-about-to-align>

7/12/15 ABC The Drum
Innovate or perish: What Turnbull's statement means for Australian research
<http://www.abc.net.au/news/2015-12-07/duffy-innovate-or-perish/7007858>

16/11/15 Cosmos Magazine, writer
"How the Sun stole Mars' atmosphere"
<https://cosmosmagazine.com/space/how-sun-stole-mars-atmosphere>

29/09/15 ABC The Drum
Finding water on Mars is huge for our search for life beyond Earth

- <http://www.abc.net.au/news/2015-09-29/duffy-water-on-mars-is-huge-for-our-search-for-life-beyond-earth/6812008>
- 28/09/15 The Conversation (300k+ views; most read article from Swinburne Uni)
[*Lunar eclipse is not the apocalypse*](#)
- 5/09/15 Cosmos Magazine, writer
"Einstein's gravitational waves remain elusive"
<https://cosmosmagazine.com/physical-sciences/einsteins-gravitational-waves-remain-elusive>
- 24/08/15 Cosmos Magazine, writer
"What Rosetta found on Comet 67P"
<https://cosmosmagazine.com/space/what-rosetta-found-comet-67p>
- 21/07/15 ABC The Drum
Breakthrough Listen initiative *"The \$100m question, are we alone in the Universe?"*
<http://www.abc.net.au/news/2015-07-21/duffy-are-we-alone-in-the-universe/6636466>
- 16/07/15 9News.com.au
<http://www.9news.com.au/Technology/2015/07/15/18/49/New-Horizons-sends-back-detailed-pictures-of-Plutos-surface>
- 8/07/15 ABC The Drum
New Horizons flyby of Pluto *"Hello there Pluto, nice to finally see you"*
<http://www.abc.net.au/news/2015-07-15/duffy-hello-there-pluto-its-nice-to-finally-see-you/6620634>
- 8/07/15 Couriermail.com.au
New Horizons malfunction
<http://www.couriermail.com.au/technology/science/nasa-scrambles-to-reboot-new-horizons-space-probe-just-days-from-pluto-encounter/story-fnjwlbuh-1227430200554>
- 15/06/15 Cosmos Magazine, writer
"What on Ceres are those bright spots?"
<https://cosmosmagazine.com/space/what-ceres-are-those-bright-spots>
- 1/06/15 News.com.au
Feature on jets from Black hole "Death Star"
<http://www.news.com.au/technology/science/hubble-telescope-sees-black-holes-plasma-beam-colliding-with-matter/story-fnjwlcze-1227377604785>
- 9/03/15 Cosmos Magazine, writer
Article on the "Dawn arrives on Ceres"
<https://cosmosmagazine.com/space/dawn-arrives-ceres>
- 16/02/15 Cosmos Magazine, writer
"New eye in the sky"
<https://cosmosmagazine.com/space/new-eye-sky-dscover-watch-over-earth-and-sun>
- 29/01/15 Cosmos Magazine, writer
Article on the "Cosmic Detectives"
<https://cosmosmagazine.com/space/cosmic-detectives-clues-ancient-fast-radio-burst>
- 12/01/15 Cosmos Magazine, writer
As a writer for widely read science magazine wrote article on the "Hole on the Sun"
<https://cosmosmagazine.com/space/what's-behind-hole-sun>
- 12/14 News.com.au
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