

Jonathan Peter Marshall

Curriculum Vitae

Contact

Institute of Astronomy and Astrophysics,
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Education

[2011]	The Open University	Ph.D. 'Detection and Analysis of Debris Discs'
[2006]	University of London	MSc. Astrophysics Hons (Dist.)
[2004]	University of St. Andrews	MSci. Astrophysics Hons (2:ii)
[2000]	The Skinners' School for Boys	3 A levels, 1 AS level (BBC,C), 10 GCSEs (3 A*, 7 A)

Employment

[2017 -]	Institute of Astronomy and Astrophysics, Academia Sinica (Postdoctoral Fellow)
[2014 - 2017]	UNSW Australia (Vice Chancellor's Postdoctoral Fellow)
[2010 - 2014]	Universidad Autónoma de Madrid (Postdoctoral Researcher)

Awards

[2017]	Postdoctoral Fellowship, ASIAA (NT\$935,766 p.a.)
[2014]	VC's Postdoctoral Research Fellowship, UNSW Australia (AU\$118,000 p.a.)
[2006]	Science, Technology and Facilities Council funded Ph.D. studentship (£13,000 p.a.)

Publication Metrics

Publications	55 (first publication 2007; eight publications as first author)
Journals	Astronomy & Astrophysics, 22 papers Monthly Notices of the Royal Astronomical Society, 22 papers Astrophysical Journal, 6 papers Astronomical Journal, Publications of the Astronomical Society of the Pacific, Astronomische Nachrichten, International Journal of Astrobiology, Origins of Life and Evolution of Biospheres, 1 paper each
Refereed citations	943
<i>h</i> -index, <i>i10</i> -index	21, 34 (NASA ADS 10/07/2017)

Refereed Journal Publications

1. ['A Herschel resolved debris disc around HD 105211'](#), 2017, Hengst S., Marshall J.P., Horner J., et al., *MNRAS* 468, 4725
2. ['New constraints on the millimetre emission of six debris discs'](#), 2017, Marshall J.P., Maddison S.T., Thilliez E., et al., *MNRAS* 468, 2719
3. ['The intrinsic and interstellar broadband linear polarization of nearby FGK dwarfs'](#), 2017, Cotton D., Marshall J.P., Bailey J., et al., *MNRAS* 467, 863
4. ['The Pan-Pacific Planet Search. VI. Giant Planets Orbiting HD 86950 and HD 222076'](#), 2017,

Wittenmyer R.A., Jones M.I., Zhao Jinglin, et al., *AJ* 153, 51

5. [‘The GALAH Survey: Observational Overview and Gaia DR1 companion’](#), 2017, Martell S., Sharma S., Buder S., et al., *MNRAS* 465, 3203
6. [‘Simultaneous infrared and optical observations of the transiting debris cloud around WD 1145+017’](#), 2016, Zhou G., Kedziora-Chudczer L., Bailey J., et al., *MNRAS* 463, 4422
7. [‘The chemistry and kinematics of two molecular clouds near Sagittarius A*’](#), 2016, Lopez J.A., Cunningham M.R., Jones P.A., et al., *MNRAS* 463, 1363
8. [‘Modelling the inner debris disc of HR 8799’](#), 2016, Contro B., Horner J., Wittenmyer R.A., Marshall J.P., and Hinse T.C., *MNRAS* 463, 191
9. [‘Gas and dust around A-type stars at tens of Myr: signatures of cometary break-up’](#), 2016, Greaves J.S., Holland W.S., Matthews B.C., et al., *MNRAS* 461, 3910
10. [‘Polarization measurements of hot dust stars and the local interstellar medium’](#), 2016, Marshall J.P., Cotton D.V., Bott K., et al., *ApJ* 825, 124
11. [‘Far-infrared and sub-millimetre imaging of HD 76582’s circumstellar disk’](#), 2016, Marshall J.P., Booth M., Holland W.S., et al., *MNRAS* 459, 2893
12. [‘Deep LMT/AzTEC millimeter observations of eps Eridani and its surroundings’](#), 2016, Chavez-Dagostino M., Bertone E., Cruz-Saenz de Miera F., Marshall J.P., et al., *MNRAS* 462, 3910
13. [‘Incidence of debris discs around FGK stars in the solar neighbourhood’](#), 2016, Montesinos B., Eiroa C., Krivov A.V., et al., *A&A* 593, A51
14. [‘The polarization of HD 189733’](#), 2016, Bott K., Bailey J., Kedziora-Chudczer L., et al., *MNRAS* 459, L109
15. [‘The linear polarization of southern bright stars measured at the parts-per-million level’](#), 2016, Cotton D.V., Bailey J., Kedziora-Chudczer L., et al., *MNRAS* 455, 1607
16. [‘The far-infrared behaviour of Herbig Ae/Be discs: Herschel PACS photometry’](#), 2016, Pascual N., Montesinos B., Meeus G., et al., *A&A* 586, A6
17. [‘Collisional modelling of the AU Microscopii debris disc’](#), 2015, Schuppler Ch., Lohne T., Krivov A.V., et al., *A&A* 581, A97
18. [‘The Dynamical Structure of HR 8799’s Inner Debris Belt’](#), 2015, Contro B., Wittenmyer R.A., Horner J., Marshall J.P., *OLEB* 45, 41
19. [‘Does the Presence of Planets Affect the Frequency and Properties of Extrasolar Kuiper Belts? Results from the Herschel Debris and Dunes Surveys’](#), 2015, Moro-Martin A., Marshall J.P., Kennedy G., et al., *ApJ* 801, 143
20. [‘Pursuing the Planet-Debris Disk Connection: Analysis of Upper Limits from the Anglo-Australian Planet Search’](#), 2015, Wittenmyer R.A., Marshall J.P., *AJ* 149, 86
21. [‘ALMA observations of alpha Centauri. First detection of main-sequence stars at 3-mm wavelength’](#), 2015, Liseau R., Vlemmings W., Bayo A., et al., *A&A* 573, L4
22. [‘Interpreting the extended emission around three nearby debris disc host stars’](#), 2014, Marshall J.P., Kirchsclager F., Ertel S., et al., *A&A* 570, A114
23. [‘Disk Radii and grain sizes in Herschel-resolved debris disks’](#), 2014, Pawellek N., Krivov A.V., Marshall J.P., et al., *ApJ* 792, 65
24. [‘GJ832c: A super-earth in the habitable zone’](#), 2014, Wittenmyer R.A., Tuomi M., Butler R.P., et al., *ApJ* 791, 114

25. [‘Collisional Modelling of the debris disc around HIP 17439’](#), 2014, Schuppler Ch., Lohne T., Krivov A.V., et al., *A&A* 567, A127
26. [‘Molecular line mapping of the giant molecular cloud associated with RCW 106 – IV Ammonia towards dust emission’](#), 2014, Lowe V., Cunningham M.R., Urquhart J.S., et al., *MNRAS* 441, 256
27. [‘On the RZ Draconis substellar circumbinary companions. Stability study of the proposed circumbinary system’](#), 2014, Hinse T.C., Horner J., Lee J.W., et al., *A&A* 565, A104
28. [‘Correlations between the stellar, planetary and debris disc components of exoplanet systems observed by Herschel’](#), 2014, Marshall J.P., Moro-Martin A., Eiroa C., et al., *A&A* 565, A15
29. [‘A dynamical investigation of the proposed BD +20 2457 system’](#), 2014, Horner J., Wittenmyer R.A., Hinse T.C., Marshall J.P., *MNRAS* 439, 1176
30. [‘How dusty is \$\alpha\$ Centauri? Excess or non-Excess over the infrared photospheres of main-sequence stars’](#), 2014, Wiegert J., Liseau R., Thebault P., et al., *A&A* 565, A104
31. [‘Can eccentric debris discs be long lived? A first numerical investigation and application to \$\zeta\$ 2 Reticuli’](#), 2014, Faramaz V., Beust H., Thebault P., et al., *A&A* 563, A72
32. [‘Alignment in star-debris disc systems seen by Herschel’](#), 2014, Greaves J.S., Kennedy G.M., Thureau N., et al., *MNRAS* 438, 31
33. [‘Potential multi-component structure of the debris disk around HIP 17439 revealed by Herschel/DUNES’](#), 2014, Ertel S., Marshall J.P., Augereau J.-C., et al., *A&A* 561, A114
34. [‘Main-sequence progenitor configurations of the NN Ser candidate circumbinary planetary system are dynamically unstable’](#), 2013, Mustill A.J., Marshall J.P., Villaver E., et al., *MNRAS* 436, 2515
35. [‘A detailed investigation of the proposed QS Virginis planetary system’](#), 2013, Horner J., Wittenmyer R.A., Hinse T.C., et al., *MNRAS* 435, 2033
36. [‘First results of the SONS survey: submillimetre detections of debris discs’](#), 2013, Panic O., Holland W.S., Wyatt M.C., et al., *MNRAS* 435, 1037
37. [‘Herschel observations of the debris disc around HIP 92043’](#), 2013, Marshall J.P., Krivov A.V., Eiroa C., et al., *A&A* 557, A58
38. [‘Herschel’s “Cold Debris Disks”: Background Galaxies or Quiescent Rims of Planetary Systems?’](#), 2013, Krivov A.V., Eiroa C., Löhne T., et al., *ApJ* 772, A32
39. [‘On the dynamical stability of the proposed planetary system orbiting NSVS 14256825’](#), 2013, Wittenmyer R.A., Horner J., Marshall J.P., *MNRAS* 431, 2150
40. [‘Dust Around Nearby Stars: The survey observational results’](#), 2013, Eiroa C., Marshall J.P., Mora A., et al., *A&A* 555, A11
41. [‘ \$\alpha\$ Centauri A in the far infrared’](#), 2013, Liseau R., Montesinos B., Olofsson G., et al., *A&A* 549, L7
42. [‘AKARI/IRC 18 Micron Survey of Warm Debris Disks’](#), 2013, Fujiwara H., Ishihara D., Onaka T., et al., *A&A* 550, A45
43. [‘A dynamical analysis of the proposed circumbinary HW Virginis planetary system’](#), 2012, Horner J., Hinse T.C., Wittenmyer R.A., et al., *MNRAS* 427, 2812
44. [‘A peculiar class of debris disks seen from Herschel/DUNES: A steep fall off in the far infrared’](#), 2012, Ertel S., Wolf S., Marshall J.P., et al., *A&A* 541, A148
45. [‘Modelling the huge, Herschel-resolved debris ring around HD 207129’](#), 2012, Löhne T., Augereau J.-C., Ertel S., et al., *A&A* 537, A110
46. [‘Herschel discovery of a new class of cold, faint debris discs’](#), 2011, Eiroa C., Marshall J.P., Mora

A., et al., *A&A* 536, L4

47. [‘Revisiting the proposed planetary system orbiting the eclipsing polar HU Aquarii’](#), 2011, Wittenmyer R.A., Horner J., Marshall J.P., et al., *MNRAS* 419, 3258
48. [‘A dynamical analysis of the proposed HU Aquarii planetary system’](#), 2011, Horner J., Marshall J.P., Wittenmyer R.A., et al., *MNRAS* 416, L11
49. [‘A Herschel Resolved Far Infrared Dust Ring around HD207129’](#), 2011, Marshall J.P., Löhne T., Montesinos B., et al., *A&A* 529, A117
50. [‘A search for debris disks in the Herschel ATLAS’](#), 2010, Thompson M.A., Smith D.J.B., Stevens J.A., et al., *A&A* 518, L134
51. [‘Resolving the cold debris disc around a planet-hosting star’](#), 2010, Liseau R., Eiroa C., Fedele D., et al., *A&A* 518, L132
52. [‘Cold DUST around NEarby Stars \(DUNES\) First results’](#), 2010, Eiroa C., Fedele D., Maldonado J., et al., *A&A* 518, L131
53. [‘Dynamical simulations of the HR8799 planetary system’](#), 2010, Marshall J.P., Horner J., Carter A., *IJA* 9, 259
54. [‘Hot Debris Dust Around HD 106797’](#), 2009, Fujiwara H., Yamashita T., Ishihara D., et al., *ApJ* 695, L88
55. [‘An Unbiased Survey of 500 Nearby Stars for Debris Disks: A JCMT Legacy Program’](#), 2007, Matthews, B.C., Greaves, J.S., Holland, W.S., et al., *Pub. Ast. Soc. Pacific* 119, 842

Conference Presentations (Oral)

- [2015] *‘Far-infrared and sub-millimetre imaging of HD 76582’s circumstellar dust’* at 5th Australian Exoplanet Workshop, Sydney
- [2014] *‘Correlations between stars, planets and circumstellar debris’* at Astronomical Society of Australia Annual Science Meeting, Sydney
- [2013] *‘DUST around NEarby Stars: The survey observational results’* at International Astronomical Union Symposium 299, Victoria
- [2012] *‘The debris disc-exoplanet connection as seen by DEBRIS and DUNES’* at International Astronomical Union Symposium 293, Beijing
‘Dust around Nearby Stars’ at ‘Herschel’s view of Star and Planet Formation’, Leiden
- [2011] *‘A summary of the Herschel DUNES survey’* at ‘Signposts of Exoplanets’, NASA Goddard
‘DUNES observations of debris discs around nearby stars with exoplanets’ at ‘Giant Planets and Super-Earths’, Flagstaff

Invited Seminars

- [2015] *‘Pluto, New Horizons, and the outer solar system’* at University of Wollongong, Australia
‘Revealing the scale and structure of planetary systems through far-infrared and sub-millimetre observations of circumstellar dust’ at University of Manchester, UK
‘Weighing and measuring planetary systems’ at University of Melbourne, Australia
- [2014] *‘Circumstellar debris discs as a sign of planetary systems’* at Mt. Stromlo, Australia
‘Debris discs and exoplanets’, at INAOE Puebla, Mexico

Teaching

- [2016] 'PHYS 1131 Introductory Physics', lecturer for the higher-level stream, covering mechanics, thermal physics, and waves and oscillations (102 students).
- [2014-2015] 'PHYS1160: Introduction to Astrophysics and Life Elsewhere in the Universe', teaching assistant for undergraduate online course at UNSW Australia (study groups of ~ 30 students).
- [2014] 'Formation of Stars and Planets', co-wrote and lectured Masters' level course at UAM (6 students).
- [2009] 'SX288: Observing the Universe' teaching assistant for undergraduate astrophysics course held at the Observatorio Astrofisica de Mallorca (groups of ~8 students).

Supervision

- [2015 - present] Joint supervisor of 1 part-time Ph.D. student, co-supervised 2 full-time Ph.D. students to successful completion.

Outreach

- [2015 – present] Two talks at UNSW as part of the UNSW Physics Outreach programme (attend.: 40-60 ea.). Interviewed for series 'Quick Physics' as part of UNSW Physics Outreach (6,000+ views on Youtube). Co-authored three articles on theconversation.com (46,000 reads). Presentations at AIP sponsored 'Physics in the Pub' evenings (attend.: ~ 100+ ea.), and local astronomical societies (attend.: 30-50 ea.). Invited talk at University of Woollongong for New Horizons Pluto flyby (300+ students). Member of ASA Education and Public Outreach Chapter.
- [2014] 'Circumstellar debris discs: following dusty footprints for clues about planet formation', public outreach talk at UNSW, Sydney (attend.: 40)
- [2009] Trained as STEMNet (Science, Technology, Engineering and Maths Network) ambassador

Skills

Spoken languages: English (native), German, Spanish
Programming/coding languages: IDL, Python, Fortran 90
Astronomy software: CASA, MERCURY, HIPE

Affiliations

Member of the International Astronomical Union