

## Refereed Publications

Since beginning work as a postdoctoral researcher in 2015, my research is having increasing impact in the wider star-formation and exoplanet communities. This is reflected by my citation count, which is steadily increasing: In total, my papers have  $\sim 650$  citations, and h-index of 16 which is increasing by three points on average each year. This places me in the top 1-2% percent of Australian astronomers within 5 years of receiving their PhD (Pimbblet 2011), despite exclusively working in small collaborations. I have also received  $\sim \$1.3\text{M}$  AUD in research funding as a postdoc over the past 5 years.

41. *Dynamical Masses of Young Stars II: Young Taurus Binaries FF Tau, Hubble 4 and HP Tau/G3*  
**Rizzuto, A. C.**, Dupuy, T. J., Kraus, A. L., Ireland M. J., ApJ submitted
40. *Tiny grains shining bright in the gaps of Herbig Ae transitional discs*  
Birchall, E. K., Ireland, M. J., Federrath, C., Monnier, J. D., Kraus, S., Willson, M., Kraus, A. L., **Rizzuto, A. C.**, Agnew, M. T., Maddison, S. T., 2019, MNRAS, 486, 3721B
39. *TESS Hunt for Young and Maturing Exoplanets (THYME): A Planet in the 45 Myr Tucana-Horologium Association*  
Newton, E. R., Mann, A. W., Tofflemire, B. M., Pearce, L., **Rizzuto, A. C.**, 2019, ApJ, 880L, 17N
38. *A super-Earth and sub-Neptune transiting the late-type M dwarf LP 791-18*  
Crossfield, I. J. M., Waalkes, W., Newton, E. R., et al., 2019, ApJ, in press
37. *The Effect of Binarity on Circumstellar Disk Evolution*  
Barenfeld, S. A., Carpenter, J. M., Sargent, A. I., **Rizzuto, A. C.**, Kraus, A. L., Meshkat, T., Akeson, R. L., Jensen, E. L. N., Hinkley, S., 2019, ApJ, 878, 45B
36. *Close Companions around Young Stars*  
Kounkel, M., Covey, K., Moe, M., Kratter, K. M., Suarez, G., Stassun, K. G., Roman-Zuniga, C., Hernandez, J., Kim, J. S., Pena Ramirez, K., Roman-Lopes, A., Stringfellow, G. S., Jaehnig, K. O., Borissova, J., Tofflemire, B., Krolikowski, D., **Rizzuto, A. C.**, et. al., 2019, AJ, 157, 196K
35. *Orbital Motion of the Wide Planetary-mass Companion GSC 6214-210 b: No Evidence for Dynamical Scattering*  
Pearce, Logan A.; Kraus, Adam L.; Dupuy, Trent J.; Ireland, Michael J.; **Rizzuto, Aaron C.**, et. al., 2019, ApJ, 157, 71p
34. *How to Constrain Your M dwarf II: the mass-luminosity-metallicity relation from  $0.075$  to  $0.70M_{\odot}$*   
Mann, A. W., Dupuy, T., Kraus, A. L., Gaidos, E., Ansdell, M., Ireland, M., **Rizzuto, A. C.**, Hung, C., Dittmann, J., Factor, S., Feiden, G., Martinez, R. A., Ruiz-Rodriguez, D., Chia Thao, P., 2018 ApJ, in press.
33. *Imaging the disc rim and a moving close-in companion candidate in the pre-transitional disc of V1247 Orionis*  
Willson, M., Kraus, S., Kluska, J., Monnier, J. D., Cure, M., Sitko, M., Aarnio, A., Ireland, M. J., **Rizzuto, A. C.**, Hone, E., Kreplin, A., Andrews, S., Calvet, N., Espaillat, C., Fukagawa, M., Harries, T. J., Hinkley, S., Kanaan, S., Muto, T., Wilner, D., 2018 A&A, in press.
32. *Multiplicity of disc-bearing stars in Upper Scorpius and Upper Centaurus-Lupus*

- Kuruwita, R. L., Ireland, M. J., **Rizzuto, A. C.**, Bento, J., Federrath, C., 2018, MNRAS, 480, 5099K
31. *Zodiacal Exoplanets in Time (ZEIT). VIII. A Two-planet System in Praesepe from K2 Campaign 16*  
**Rizzuto, A. C.**, Vanderburg, A., Mann, A. W., Kraus, A. L., Dressing, C. D., Agueros, M. A., Douglas, S. T., Krolkowski, D. M., 2018, AJ, 156, 195R
30. *Eclipsing Binaries in the Open Cluster Ruprecht 147. I. EPIC 219394517*  
Torres, G., Curtis, J. L., Vanderburg, A., Kraus, A. L., **Rizzuto, A. C.**, 2018, ApJ, 866, 67T
29. *Zodiacal Exoplanets in Time (ZEIT). VII. A Temperate Candidate Super-Earth in the Hyades Cluster*  
Vanderburg, A., Mann, A. W., **Rizzuto, A. C.**, Bieryla, A., Kraus, A. L.; Berlind, P., Calkins, M. L.; Curtis, J. L., Douglas, S. T.; Esquerdo, G. A., 2018, AJ, 156, 46V
28. *K2-231 b: A Sub-Neptune Exoplanet Transiting a Solar Twin in Ruprecht 147*  
Curtis, J. L., Vanderburg, A., Torres, G., Kraus, A. L., Huber, D., Mann, A. W., **Rizzuto, A. C.**, Isaacson, H., Howard, A. W., Henze, C. E., Fulton, B. J., Wright, J. T., 2018, AJ, 155, 173C
27. *Zodiacal Exoplanets in Time (ZEIT) VI: a three-planet system in the Hyades cluster including an Earth-sized planet*  
Mann, A. W., Vanderburg, A., **Rizzuto, A. C.**, Kraus, A. L., Berlind, P., Bieryla, A., Calkins, M. L., Esquerdo, G. A., Latham, D. W., Mace, G. N., Morris, N. R., Quinn, S. N., Sokal, K. R., Stefanik, R. P., 2018, AJ, 154, 4M
26. *Likely Transiting Exocomets Detected by Kepler*  
Rappaport, S., Vanderburg, A., Jacobs, T., Lacourse, D., Jenkins, J., Kraus, A. L., **Rizzuto, A. C.**, Latham, D. W., Bieryla, A., Lazarevic, M., Schmitt, A., MNRAS, 2018, 474, 1453R
25. *Zodiacal Exoplanets in Time (ZEIT) V: A Uniform Search for Transiting Planets in Young Clusters Observed by K2*  
**Rizzuto, A. C.**, Mann, A. W., Vanderburg, A., Kraus, A. L., Covey, K., 2017, AJ, 143, 224R
24. *The Young Substellar Companion ROXs 12 B: Near-Infrared Spectrum, System Architecture, and Spin-Orbit Misalignment*  
Bowler, B., Kraus, A. L., Bryan, M., Knutson, H., Brogi, M., **Rizzuto, A. C.**, Mace, G., Vanderburg, A., Liu, M., Hillenbrand, L., Cieza, L., 2017, AJ, 154, 165B
23. *Dippers and Dusty Disks Edges: New diagnostics and comparison to model predictions*  
Bodman, E. H., Quillen, A. C., Ansdell, M., Hippke, M., Boyajian, T. S., Mamajek, E. E., Blackman, E. G., **Rizzuto, A. C.**, Kastner, J. H. 2017, MNRAS, 470, 202B
22. *The Factory and the Beehive. III. PTFEB132.707+19.810, A Low-mass Eclipsing Binary in Praesepe Observed by PTF and K2*  
Kraus, A. L., Douglas, S. T., Mann, A. W., Agueros, M. A., Law, N. M., Covey, K. R., Feiden, G. A., **Rizzuto, A. C.**, Howard, A. W., Isaacson, H., Gaidos, E., Torres, G., Bakos, G. 2017, ApJ, 845, 72K
21. *The First Scattered-light Image of the Debris Disk around the Sco-Cen Target HD 129590*

- Matthews, E., Hinkley, S., Vigan, A., Kennedy, G., **Rizzuto, A. C.**, Stapelfeldt, K., Mawet, D., Booth, M., Chen, C., Jang-Condell, H. 2017, ApJ, 843L, 12M
20. *Age Spreads and the Temperature Dependence of Age Estimates in Upper Sco*  
Fang, Q., Herczeg, G. J., **Rizzuto, A. C.** 2017, ApJ, 842, 123F
  19. *The Greater Taurus-Auriga Ecosystem. I. There is a Distributed Older Population*  
Kraus, A. L., Herczeg, G. J., **Rizzuto, A. C.**, Mann, A. W., Slesnick, C. L., Carpenter, J. M., Hillenbrand, L. A., Mamajek, E. E. 2017, ApJ, 838, 150K
  18. *Zodiacal Exoplanets in Time (ZEIT). IV. Seven Transiting Planets in the Praesepe Cluster*  
Mann, A. W., Gaidos, E., Vanderburg, A., **Rizzuto, A. C.**, Ansdell, M., Medina, J. V., Mace, G. N., Kraus, A. L., Sokal, K. R. 2017, AJ, 153, 64M
  17. *TYC 8241 2652 1 and the case of the disappearing disk: No smoking gun yet*  
GÄijnther, H. M., Kraus, S., Melis, C., CurE, M., Harries, T., Ireland, M. J., Kanaan, S., Poppenhaeger, K., **Rizzuto, A. C.**, Rodriguez, D., Schneider, C. P., Sitko, M., Weigelt, G., Willson, M., Wolk, S. 2017, A&A, 598A, 82G
  16. *Zodiacal exoplanets in time (ZEIT) - II. A ‘super-Earth’ orbiting a young K dwarf in the Pleiades Neighbourhood*  
Gaidos, E., Mann, A. W., **Rizzuto, A. C.**, Nofi, L., Mace, G., Vanderburg, A., Feiden, G., Narita, N., Takeda, Y., Esposito, T. M., De Rosa, R. J., Ansdell, M., Hirano, T., Graham, J. R., Kraus, A., Jaffe, D. 2017, MNRAS, 464, 850G
  15. *Testing the Binary Trigger Hypothesis in FUors*  
Green, J. D., Kraus, A. L., **Rizzuto, A. C.**, Ireland, M. J., Dupuy, T. J., Mann, A. W., Kuruwita, G. 2016, ApJ, 830, 29G
  14. *Zodiacal Exoplanets in Time (ZEIT). III. A Short-period Planet Orbiting a Pre-main-sequence Star in the Upper Scorpius OB Association*  
Mann, A. W., Newton, E. R., **Rizzuto, A. C.**, Irwin, J., Feiden, G. A., Gaidos, E., Mace, G. N., Kraus, A. L., James, D. J., Ansdell, M., Charbonneau, D., Covey, K. R., Ireland, M. J., Jaffe, D. T., Johnson, M. C., Kidder, B., Vanderburg, A. 2016, AJ, 152, 61M
  13. *High-precision Radio and Infrared Astrometry of LSPM J1314+1320AB. II. Testing Pre-main-sequence Models at the Lithium Depletion Boundary with Dynamical Masses*  
Dupuy, T. J., Forbrich, J., **Rizzuto, A. C.**, Mann, A. W., Aller, K., Liu, M. C., Kraus, A. L., Berger, E. 2016, ApJ, 827, 23D
  12. *High-precision Radio and Infrared Astrometry of LSPM J1314+1320AB. I. Parallax, Proper Motions, and Limits on Planets*  
Forbrich, J., Dupuy, T. J., Reid, M. J., Berger, E., **Rizzuto, A. C.**, Mann, A. W., Liu, M. C., Aller, K., Kraus, A. L. 2016, ApJ, 827, 22F
  11. *Dynamical Masses of Young Stars. I. Discordant Model Ages of Upper Scorpius*  
**Rizzuto, A. C.**, Ireland, M. J., Dupuy, T. J., Kraus, A. L. 2016, ApJ, 817, 164R
  10. *Mapping the Shores of the Brown Dwarf Desert. IV. Ophiuchus*  
Cheetham, A. C., Kraus, A. L., Ireland, M. J., Cieza, L., **Rizzuto, A. C.**, Tuthill, P. G. 2015, ApJ, 813, 83C

9. *The Mass-Radius Relation of Young Stars. I. USco 5, an M4.5 Eclipsing Binary in Upper Scorpius Observed by K2*  
Kraus, A. L., Cody, A. M., Covey, K. R., **Rizzuto, A. C.**, Mann, A. W., Ireland, M. J. 2015, ApJ, 807, 3K
8. *New pre-main-sequence stars in the Upper Scorpius subgroup of Sco-Cen*  
**Rizzuto, A. C.**, Ireland, M. J., Kraus, A. L. 2015, MNRAS, 488, 2737R
7. *RHEA: the ultra-compact replicable high-resolution exoplanet and Asteroseismology spectrograph*  
Feger, T., Bacigalupo, C., Bedding, T. R., Bento, J., Coutts, D. W., Ireland, M., J.; Parker, Q. A., **Rizzuto, A. C.**, Spaleniak, I. 2014, SPIE, 9147E, 7IF
6. *Alternative approach to precision narrow-angle astrometry for Antarctic long baseline interferometry*  
Kok, Y., Ireland, M. J., **Rizzuto, A. C.**, Tuthill, P. G., Robertson, J. G., Warrington, B. A., Tango, W. J. 2014, SPIE, 9146E, 2RK
5. *Long-baseline interferometric multiplicity survey of the Sco-Cen OB association*  
**Rizzuto, A. C.**, Ireland, M. J., Robertson, J. G., Kok, Y., Tuthill, P. G., Warrington, B. A., Haubois, X., Tango, W. J., Norris, B., ten Brummelaar, T., Kraus, A. L., Jacob, A., Laliberte-Houdeville, C. 2013, MNRAS, 436, 1694R
4. *Phase-Referenced Interferometry and Narrow-Angle Astrometry with SUSI*  
Kok, Y., Ireland, M. J., Tuthill, P. G., Robertson, J. G., Warrington, B. A., **Rizzuto, A. C.**, Tango, W. J. 2013, JAI, 240011K
3. *Science and technology progress at the Sydney University Stellar Interferometer*  
Robertson, J. G., Ireland, M. J., Tango, W. J., Tuthill, P. G., Warrington, B. A., Kok, Y., **Rizzuto, A. C.**, Cheetham, A., Jacob, A. P. 2012, SPIE, 8455E, 0NR
2. *WISE circumstellar discs in the young Sco-Cen association*  
**Rizzuto, A. C.**, Ireland, M. J., Zucker, D. B. 2012, MNRAS, 421L, 97R
1. *Multidimensional Bayesian membership analysis of the Sco OB2 moving group*  
**Rizzuto, A. C.**, Ireland, M. J., Robertson, J. G. 2011, MNRAS, 416, 3108R