

Dr. Jeffrey D. Simpson

Curriculum vitae

CONTACT INFORMATION	School of Physics University of New South Wales Sydney NSW Australia	jeffrey.simpson@unsw.edu.au
EDUCATION	Ph.D. in Astronomy , University of Canterbury New Zealand, M.Sc. in Astronomy , University of Canterbury New Zealand,	2014 2009
CURRENT EMPLOYMENT	Post-Doctoral Research Fellow , University of New South Wales	2018
PREVIOUS EMPLOYMENT	Research Fellow , Australian Astronomical Observatory Research Fellow , Macquarie University	2015 to 2018 2013 to 2015

REFEREED PUBLICATIONS 19 refereed publications. 9 refereed publications as first author.
Total citations = 408; h-index = 9 (2018-08-08)

- 19 Buder, Sven, Asplund, Martin, Duong, Ly, Kos, Janez, *et al.* (incl. **JDS**), 2018, The GALAH Survey: second data release, MNRAS, **478**, 4513 (arXiv:1804.06041) [8 citations]
- 18 **Simpson, Jeffrey D.**, 2018, The most metal-poor Galactic globular cluster: the first spectroscopic observations of ESO280-SC06, MNRAS, **477**, 4565 (arXiv:1804.02606)
- 17 Quillen, Alice C., De Silva, Gayandhi, Sharma, Sanjib, Hayden, Michael, *et al.* (incl. **JDS**), 2018, The GALAH survey: stellar streams and how stellar velocity distributions vary with Galactic longitude, hemisphere, and metallicity, MNRAS, **478**, 228 (arXiv:1802.02924) [6 citations]
- 16 Duong, L., Freeman, K. C., Asplund, M., Casagrande, L., *et al.* (incl. **JDS**), 2018, The GALAH survey: properties of the Galactic disc(s) in the solar neighbourhood, MNRAS, **476**, 5216 (arXiv:1801.01514) [8 citations]
- 15 Kos, Janez, Bland-Hawthorn, Joss, Freeman, Ken, Buder, Sven, *et al.* (incl. **JDS**), 2018, The GALAH survey: chemical tagging of star clusters and new members in the Pleiades, MNRAS, **473**, 4612 (arXiv:1709.00794) [8 citations]
- 14 Wittenmyer, Robert A., Sharma, Sanjib, Stello, Dennis, Buder, Sven, *et al.* (incl. **JDS**), 2018, The K2-HERMES Survey. I. Planet-candidate Properties from K2 Campaigns 1–3, AJ, **155**, 84 (arXiv:1712.06774) [7 citations]
- 13 Sharma, Sanjib, Stello, Dennis, Buder, Sven, Kos, Janez, *et al.* (incl. **JDS**), 2018, The TESS-HERMES survey data release 1: high-resolution spectroscopy of the TESS southern continuous viewing zone, MNRAS, **473**, 2004 (arXiv:1707.05753) [12 citations]
- 12 **Simpson, Jeffrey D.**, De Silva, Gayandhi, Martell, Sarah L., Navin, Colin A., & Zucker, Daniel B., 2017, ESO 452-SC11: the lowest mass globular cluster with a potential chemical inhomogeneity, MNRAS, **472**, 2856 (arXiv:1708.06875) [4 citations]
- 11 **Simpson, Jeffrey D.**, De Silva, G. M., Martell, S. L., Zucker, D. B., *et al.*, 2017, Siriusly, a newly identified intermediate-age Milky Way stellar cluster: a spectroscopic study of Gaia 1, MNRAS, **471**, 4087 (arXiv:1703.03823) [7 citations]
- 10 Martell, S. L., Sharma, S., Buder, S., Duong, L., *et al.* (incl. **JDS**), 2017, The GALAH survey: observational overview and Gaia DR1 companion, MNRAS, **465**, 3203 (arXiv:1609.02822) [62 citations]

- 9 **Simpson, Jeffrey D.**, Martell, Sarah L., & Navin, Colin A., 2017, A broad perspective on multiple abundance populations in the globular cluster NGC 1851, *MNRAS*, **465**, 1123 (arXiv:1610.08562) [7 citations]
- 8 Traven, G., Matijević, G., Zwitter, T., Žerjal, M., *et al.* (incl. **JDS**), 2017, The Galah Survey: Classification and Diagnostics with t-SNE Reduction of Spectral Information, *The Astrophysical Journal Supplement Series*, **228**, 24 (arXiv:1612.02242) [13 citations]
- 7 Kos, Janez, Lin, Jane, Zwitter, Tomaž, Žerjal, Maruška, *et al.* (incl. **JDS**), 2017, The GALAH survey: the data reduction pipeline, *MNRAS*, **464**, 1259 (arXiv:1608.04391) [18 citations]
- 6 MacLean, B. T., Campbell, S. W., De Silva, G. M., Lattanzio, J., *et al.* (incl. **JDS**), 2016, An extreme paucity of second population AGB stars in the ‘normal’ globular cluster M4, *MNRAS*, **460** (arXiv:1604.05040) [21 citations]
- 5 **Simpson, Jeffrey D.**, De Silva, G. M., Bland-Hawthorn, J., Freeman, K. C., *et al.*, 2016, The GALAH survey: relative throughputs of the 2dF fibre positioner and the HERMES spectrograph from stellar targets, *MNRAS*, **459**, 1069 (arXiv:1603.08991) [3 citations]
- 4 Sheinis, Andrew, Anguiano, Borja, Asplund, Martin, Bacigalupo, Carlos, *et al.* (incl. **JDS**), 2015, First light results from the High Efficiency and Resolution Multi-Element Spectrograph at the Anglo-Australian Telescope, *Journal of Astronomical Telescopes, Instruments, and Systems*, **1**, 35002 [21 citations]
- 3 De Silva, G. M., Freeman, K. C., Bland-Hawthorn, J., Martell, S., *et al.* (incl. **JDS**), 2015, The GALAH survey: scientific motivation, *MNRAS*, **449**, 2604 (arXiv:1502.04767) [174 citations]
- 2 **Simpson, Jeffrey D.**, & Cottrell, P. L., 2013, Spectral matching for abundances of 848 stars of the giant branches of the globular cluster ω Centauri, *MNRAS*, **433**, 1892 (arXiv:1305.3059) [7 citations]
- 1 **Simpson, Jeffrey D.**, Cottrell, P. L., & Worley, C. C., 2012, Spectral matching for abundances and clustering analysis of stars on the giant branches of ω Centauri, *MNRAS*, **427**, 1153 (arXiv:1209.0495) [9 citations]

PREPRINTS

- 7 Khanna, Shourya, Sharma, Sanjib, Bland-Hawthorn, Joss, Hayden, Michael, *et al.* (incl. **JDS**), 2018, The GALAH Survey: Velocity fluctuations in the Milky Way using red clump giants (arXiv:1804.07217)
- 6 Zwitter, Tomaž, Kos, Janez, Chiavassa, Andrea, Buder, Sven, *et al.* (incl. **JDS**), 2018, The GALAH Survey: Accurate Radial Velocities and Library of Observed Stellar Template Spectra (arXiv:1804.06344) [2 citations]
- 5 Buder, S., Lind, K., Ness, M. K., Asplund, M., *et al.* (incl. **JDS**), 2018, The GALAH survey: An abundance, age, and kinematic inventory of the solar neighbourhood made with TGAS (arXiv:1804.05869) [4 citations]
- 4 Kos, Janez, Bland-Hawthorn, Joss, Betters, Christopher H., Leon-Saval, Sergio, *et al.* (incl. **JDS**), 2018, Holistic spectroscopy: Complete reconstruction of a wide-field, multi-object spectroscopic image using a photonic comb (arXiv:1804.05851)
- 3 **Simpson, Jeffrey D.**, Martell, Sarah L., Da Costa, Gary, Casey, Andrew R., *et al.*, 2018, The GALAH survey: Co-orbiting stars and chemical tagging (arXiv:1804.05894) [2 citations]
- 2 **Simpson, Jeffrey D.**, Stello, Dennis, Sharma, Sanjib, Ting, Yuan-Sen, *et al.*, 2018, The GALAH and TESS-HERMES surveys: high-resolution spectroscopy of luminous supergiants in the Magellanic Clouds and Bridge (arXiv:1804.05900)

- ¹ Gao, Xudong, Lind, Karin, Amarsi, Anish M., Buder, Sven, *et al.* (incl. **JDS**), 2018, The GALAH Survey: Verifying abundance trends in the open cluster M67 using non-LTE spectroscopy ([arXiv:1804.06394](https://arxiv.org/abs/1804.06394))

COMPETITIVE OBSERVING PROPOSALS	<p>Anglo-Australian Telescope</p> <p>Co-I: Dynamical Studies of DES Stellar Streams (10 nights) 18B</p> <p>Co-I: The HERMES-TESS program (8 nights) 18B</p> <p>Co-I: Open clusters with HERMES (5 nights) 18A</p> <p>Co-I: Open clusters with HERMES (13 nights) 17B</p> <p>Co-I: How Extended is the Stellar Envelope of NGC5694? (6 hours) 17A</p> <p>Co-I: The GALAH Survey: Phase 2 (35 nights/semester) 17A–17B</p> <p>Co-I: The HERMES K2-follow-up program (12 nights/semester) 16A–17B</p> <p>PI: Probing the low mass regime of globular clusters (6 hours) 16A</p> <p>Co-I: The GALAH Survey (35 nights/semester) 15A–16B</p> <p>Keck Observatory</p> <p>PI: ESO452: Exploring self-enrichment in low mass stellar clusters (0.5 nights) 17A</p>
CONFERENCE ACTIVITY	Organized the 2017 Southern Cross Astrophysics Conference on “Surveying the Cosmos, The Science From Massively Multiplexed Surveys”
SERVICE TO PROFESSION	<p>Referee for articles in PASA and A&A</p> <p>Referee for research funding proposal for Polish National Science Centre</p>
REFERENCES AVAILABLE TO CONTACT	<p>Chris Lidman</p> <ul style="list-style-type: none"> • christopher.lidman@anu.edu.au • (02) 6125 0238 • Research School of Astronomy & Astrophysics Mount Stromlo Observatory Cotter Road Weston Creek, ACT 2611 Australia <p>Gary Da Costa</p> <ul style="list-style-type: none"> • gary.dacosta@anu.edu.au • (02) 6125 8913 • Research School of Astronomy & Astrophysics Mount Stromlo Observatory Cotter Road Weston Creek, ACT 2611 Australia