Publication List - Paul McMillan

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12212 total citations ⋄ 1338 citations as first author

Key Publications

1. "The Sixth Data Release of the Radial Velocity Experiment (RAVE). II. Stellar Atmospheric Parameters, Chemical Abundances, and Distances", Steinmetz, M., Guiglion, G., **Paul McMillan**, Matijevič, G., et al., 2020, AJ, 160, 83. *(Citations to date 5)*

2. "Distances and parallax bias in Gaia DR2", Schönrich, R., **Paul McMillan** & Eyer, L., 2019, MNRAS, 487, 3568. *(Citations to date 69)*

3. "Gaia Data Release 2. Kinematics of globular clusters and dwarf galaxies around the Milky Way", Gaia Collaboration, Helmi, A., van Leeuwen, F., **Paul McMillan**, et al., 2018, A&A, 616, A12. *(Citations to date 277)*

4. "Improved distances and ages for stars common to TGAS and RAVE", **Paul McMillan**, Kordopatis, G., Kunder, A., Binney, J., et al., 2018, MNRAS, 477, 5279. *(Citations to date 37)*

5. "Understanding inverse metallicity gradients in galactic discs as a consequence of inside-out formation", Schönrich, R. & **Paul McMillan**, 2017, MNRAS, 467, 1154. *(Citations to date 53)*

6. "The mass distribution and gravitational potential of the Milky Way", **Paul McMillan**, 2017, MNRAS, 465, 76. *(Citations to date 255)*

7. "The Radial Velocity Experiment (RAVE): Fifth Data Release", Kunder, A., Kordopatis, G., Steinmetz, M., Zwitter, T., et al. (including **Paul McMillan**), 2017, AJ, 153, 75. *(Citations to date 283)*

8. "Torus mapper: a code for dynamical models of galaxies", Binney, J. & **Paul McMillan**, 2016, MNRAS, 456, 1982. *(Citations to date 28)*

9. "Constraining the Galaxy's dark halo with RAVE stars", Piffl, T., Binney, J., **Paul McMillan**, Steinmetz, M., et al., 2014, MNRAS, 445, 3133. *(Citations to date 120)*

10. "Analysing surveys of our Galaxy - II. Determining the potential", **Paul McMillan** & Binney, J., 2013, MNRAS, 433, 1411. *(Citations to date 27)*

11. "Extending the Hyades", **Paul McMillan**, 2013, MNRAS, 430, 3276. *(Citations to date 21)*

12. "Mass models of the Milky Way", **Paul McMillan**, 2011, MNRAS, 414, 2446. *(Citations to date 513)*

13. "Models of our Galaxy - II", Binney, J. & **Paul McMillan**, 2011, MNRAS, 413, 1889. *(Citations to date 90)*

14. "The uncertainty in Galactic parameters", **Paul McMillan** & Binney, J., 2010, MNRAS, 402, 934. *(Citations to date 214)*

15. "Disassembling the Galaxy with angle-action coordinates", **Paul McMillan** & Binney, J., 2008, MNRAS, 390, 429. *(Citations to date 58)*

16. "Initial conditions for disc galaxies", **Paul McMillan** & Dehnen, W., 2007, MNRAS, 378, 541. *(Citations to date 84)*

17. "Halo evolution in the presence of a disc bar", **Paul McMillan** & Dehnen, W., 2005, MNRAS, 363, 1205. *(Citations to date 36)*

Other Publications

18. "The Sixth Data Release of the Radial Velocity Experiment (RAVE). I. Survey Description, Spectra, and Radial Velocities", Steinmetz, M., Matijevič, G., Enke, H., Zwitter, T., et al. (including **Paul McMillan**), 2020, AJ, 160, 82. *(Citations to date 6)*

19. "Radial migration and vertical action in N-body simulations", Mikkola, D., **Paul McMillan** & Hobbs, D., 2020, MNRAS, 495, 3295. *(Citations to date 1)*

20. "The RAdial Velocity Experiment: Parameterization of RAVE spectra based on Convolutional Neural Network", Guiglion, G., Matijevic, G., Queiroz, A., Valentini, M., et al. (including **Paul McMillan**), 2020, arXiv:2004.12666. *(Citations to date 1)*

21. "Kinematics with Gaia DR2: the force of a dwarf", Carrillo, I., Minchev, I., Steinmetz, M., Monari, G., et al. (including **Paul McMillan**), 2019, MNRAS, 490, 797. *(Citations to date 17)*

22. "Voyage 2050 White Paper: All-Sky Visible and Near Infrared Space Astrometry", Hobbs, D., Brown, A., Høg, E., Jordi, C., et al. (including **Paul McMillan**), 2019, arXiv:1907.12535. *(Citations to date 3)*

23. "Radial abundance gradients in the outer Galactic disk as traced by main-sequence OB stars", Bragança, G., Daflon, S., Lanz, T., Cunha, K., et al. (including **Paul McMillan**), 2019, A&A, 625, A120. *(Citations to date 3)*

24. "4MOST Consortium Survey 4: Milky Way Disc and Bulge High-Resolution Survey (4MIDABLE-HR)", Bensby, T., Bergemann, M., Rybizki, J., Lemasle, B., et al. (including **Paul McMillan**), 2019, Msngr, 175, 35. *(Citations to date 9)*

25. "4MOST: Project overview and information for the First Call for Proposals", de Jong, R., Agertz, O., Berbel, A., Aird, J., et al. (including **Paul McMillan**), 2019, Msngr, 175, 3. *(Citations to date 59)*

26. "4MOST Consortium Survey 3: Milky Way Disc and Bulge Low-Resolution Survey (4MIDABLE-LR)", Chiappini, C., Minchev, I., Starkenburg, E., Anders, F., et al. (including **Paul McMillan**), 2019, Msngr, 175, 30. *(Citations to date 11)*

27. "Gaia Data Release 2. Variable stars in the colour-absolute magnitude diagram", Gaia Collaboration, Eyer, L., Rimoldini, L., Audard, M., et al. (including **Paul McMillan**), 2019, A&A, 623, A110. *(Citations to date 54)*

28. "Spiral arm crossings inferred from ridges in Gaia stellar velocity distributions", Quillen, A., Carrillo, I., Anders, F., **Paul McMillan**, et al., 2018, MNRAS, 480, 3132. *(Citations to date 29)*

29. "Gaia Data Release 2. The celestial reference frame (Gaia-CRF2)", Gaia Collaboration, Mignard, F., Klioner, S., Lindegren, L., et al. (including **Paul McMillan**), 2018, A&A, 616, A14. *(Citations to date 78)*

30. "Gaia Data Release 2. Observations of solar system objects", Gaia Collaboration, Spoto, F., Tanga, P., Mignard, F., et al. (including **Paul McMillan**), 2018, A&A, 616, A13. *(Citations to date 33)*

31. "Gaia Data Release 2. Observational Hertzsprung-Russell diagrams", Gaia Collaboration, Babusiaux, C., van Leeuwen, F., Barstow, M., et al. (including **Paul McMillan**), 2018, A&A, 616, A10. *(Citations to date 304)*

32. "Gaia Data Release 2. The astrometric solution", Lindegren, L., Hernández, J., Bombrun, A., Klioner, S., et al. (including **Paul McMillan**), 2018, A&A, 616, A2. *(Citations to date 929)*

33. "Gaia Data Release 2. Mapping the Milky Way disc kinematics", Gaia Collaboration, Katz, D., Antoja, T., Romero-Gómez, M., et al. (including **Paul McMillan**), 2018, A&A, 616, A11. *(Citations to date 165)*

34. "Gaia Data Release 2. Summary of the contents and survey properties", Gaia Collaboration, Brown, A., Vallenari, A., Prusti, T., et al. (including **Paul McMillan**), 2018, A&A, 616, A1. *(Citations to date 3322)*

35. "Correlations between age, kinematics, and chemistry as seen by the RAVE survey", Wojno, J., Kordopatis, G., Steinmetz, M., **Paul McMillan**, et al., 2018, MNRAS, 477, 5612. *(Citations to date 8)*

36. "Simple Distance Estimates for Gaia DR2 Stars with Radial Velocities", **Paul McMillan**, 2018, RNAAS, 2, 51. *(Citations to date 15)*

37. "Coma Berenices: The First Evidence for Incomplete Vertical Phase-mixing in Local Velocity Space with RAVE—Confirmed with Gaia DR2", Monari, G., Famaey, B., Minchev, I., Antoja, T., et al. (including **Paul McMillan**), 2018, RNAAS, 2, 32. *(Citations to date 13)*

38. "Gaia DR2 Confirms that Candidate Thorne-Żytkow Object HV 2112 is in the Small Magellanic Cloud", **Paul McMillan** & Church, R., 2018, RNAAS, 2, 18.

39. "Is the Milky Way still breathing? RAVE-Gaia streaming motions", Carrillo, I., Minchev, I., Kordopatis, G., Steinmetz, M., et al. (including **Paul McMillan**), 2018, MNRAS, 475, 2679. *(Citations to date 32)*

40. "Climbing the cosmic ladder with stellar twins in RAVE with Gaia", Jofré, P., Traven, G., Hawkins, K., Gilmore, G., et al. (including **Paul McMillan**), 2017, MNRAS, 472, 2517. *(Citations to date 7)*

41. "Gaia Data Release 1. Testing parallaxes with local Cepheids and RR Lyrae stars", Gaia Collaboration, Clementini, G., Eyer, L., Ripepi, V., et al. (including **Paul McMillan**), 2017, A&A, 605, A79. *(Citations to date 62)*

42. "The selection function of the RAVE survey", Wojno, J., Kordopatis, G., Piffl, T., Binney, J., et al. (including **Paul McMillan**), 2017, MNRAS, 468, 3368. *(Citations to date 32)*

43. "Gaia Data Release 1. Open cluster astrometry: performance, limitations, and future prospects", Gaia Collaboration, van Leeuwen, F., Vallenari, A., Jordi, C., et al. (including **Paul McMillan**), 2017, A&A, 601, A19. *(Citations to date 65)*

44. "RAVE stars in K2. I. Improving RAVE red giants spectroscopy using asteroseismology from K2 Campaign 1", Valentini, M., Chiappini, C., Davies, G., Elsworth, Y., et al. (including **Paul McMillan**), 2017, A&A, 600, A66. *(Citations to date 28)*

45. "On the metallicity dependence of the [Y/Mg]-age relation for solar-type stars", Feltzing, S., Howes, L., **Paul McMillan** & Stonkutė, E., 2017, MNRAS, 465, L109. *(Citations to date 32)*

46. "The Gaia mission", Gaia Collaboration, Prusti, T., de Bruijne, J., Brown, A., et al. (including **Paul McMillan**), 2016, A&A, 595, A1. *(Citations to date 2139)*

47. "Gaia Data Release 1. Astrometry: one billion positions, two million proper motions and parallaxes", Lindegren, L., Lammers, U., Bastian, U., Hernández, J., et al. (including **Paul McMillan**), 2016, A&A, 595, A4. *(Citations to date 550)*

48. "Gaia Data Release 1. Summary of the astrometric, photometric, and survey properties", Gaia Collaboration, Brown, A., Vallenari, A., Prusti, T., et al. (including **Paul McMillan**), 2016, A&A, 595, A2. *(Citations to date 1337)*

49. "Gaia Data Release 1. Pre-processing and source list creation", Fabricius, C., Bastian, U., Portell, J., Castañeda, J., et al. (including **Paul McMillan**), 2016, A&A, 595, A3. *(Citations to date 61)*

50. "Chemical separation of disc components using RAVE", Wojno, J., Kordopatis, G., Steinmetz, M., **Paul McMillan**, et al., 2016, MNRAS, 461, 4246. *(Citations to date 27)*

51. "GaiaNIR: Combining optical and Near-Infra-Red (NIR) capabilities with Time-Delay-Integration (TDI) sensors for a future Gaia-like mission", Hobbs, D., Høg, E., Mora, A., Crowley, C., et al. (including **Paul McMillan**), 2016, arXiv:1609.07325. *(Citations to date 25)*

52. "Identification of globular cluster stars in RAVE data - I. Application to stellar parameter calibration", Anguiano, B., Zucker, D., Scholz, R., Grebel, E., et al. (including **Paul McMillan**), 2015, MNRAS, 451, 1229. *(Citations to date 17)*

53. "The Gaia-ESO Survey: a quiescent Milky Way with no significant dark/stellar accreted disc", Ruchti, G., Read, J., Feltzing, S., Serenelli, A., et al. (including **Paul McMillan**), 2015, MNRAS, 450, 2874. *(Citations to date 40)*

54. "The rich are different: evidence from the RAVE survey for stellar radial migration", Kordopatis, G., Binney, J., Gilmore, G., Wyse, R., et al. (including **Paul McMillan**), 2015, MNRAS, 447, 3526. *(Citations to date 54)*

55. "New distances to RAVE stars", Binney, J., Burnett, B., Kordopatis, G., **Paul McMillan**, et al., 2014, MNRAS, 437, 351. *(Citations to date 91)*

56. "In the thick of it: metal-poor disc stars in RAVE", Kordopatis, G., Gilmore, G., Wyse, R., Steinmetz, M., et al. (including **Paul McMillan**), 2013, MNRAS, 436, 3231. *(Citations to date 51)*

57. "The Radial Velocity Experiment (RAVE): Fourth Data Release", Kordopatis, G., Gilmore, G., Steinmetz, M., Boeche, C., et al. (including **Paul McMillan**), 2013, AJ, 146, 134. *(Citations to date 254)*

58. "Analysing surveys of our Galaxy - I. Basic astrometric data", **Paul McMillan** & Binney, J., 2012, MNRAS, 419, 2251. *(Citations to date 27)*

59. "The solar neighbourhood in angle coordinates: the Hyades moving group", **Paul McMillan**, 2011, MNRAS, 418, 1565. *(Citations to date 25)*

60. "The dangers of deprojection of proper motions", **Paul McMillan** & Binney, J., 2009, MNRAS, 400, L103. *(Citations to date 11)*

61. "The haloes of merger remnants", **Paul McMillan**, Athanassoula, E. & Dehnen, W., 2007, MNRAS, 376, 1261. *(Citations to date 15)*