PUBLICATION LIST - PAUL MCMILLAN

Lund Observatory ⋄ paul@astro.lu.se 9951 total citations ⋄ 1219 citations as first author

Key Publications

- 1. "Distances and parallax bias in Gaia DR2", Schönrich, R., **Paul McMillan** & Eyer, L., 2019, MNRAS, 487, 3568. (Citations to date 36)
- 2. "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 215)
- 3. "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 34)
- 4. "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 44)
- 5. "The mass distribution and gravitational potential of the Milky Way", **Paul McMillan**, 2017, MNRAS, 465, 76. (Citations to date 194)
- "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 258)
- 7. "Torus mapper: a code for dynamical models of galaxies", Binney, J. & Paul McMillan, 2016, MNRAS, 456, 1982. (Citations to date 27)
- 8. "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 112)
- 9. "Analysing surveys of our Galaxy II. Determining the potential", **Paul McMillan** & Binney, J., 2013, MNRAS, 433, 1411. (Citations to date 26)
- 10. "Extending the Hyades", Paul McMillan, 2013, MNRAS, 430, 3276. (Citations to date 21)
- 11. "Mass models of the Milky Way", **Paul McMillan**, 2011, MNRAS, 414, 2446. (Citations to date 479)
- 12. "Models of our Galaxy II", Binney, J. & Paul McMillan, 2011, MNRAS, 413, 1889. (Citations to date 87)
- 13. "The uncertainty in Galactic parameters", **Paul McMillan** & Binney, J., 2010, MNRAS, 402, 934. (Citations to date 211)
- 14. "Disassembling the Galaxy with angle-action coordinates", **Paul McMillan** & Binney, J., 2008, MNRAS, 390, 429. (Citations to date 54)
- 15. "Initial conditions for disc galaxies", **Paul McMillan** & Dehnen, W., 2007, MNRAS, 378, 541. (Citations to date 77)
- 16. "Halo evolution in the presence of a disc bar", **Paul McMillan** & Dehnen, W., 2005, MNRAS, 363, 1205. (Citations to date 35)

Other Publications

- 17. "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 6)
- 18. "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 1)
- 19. "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 2)
- 20. "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 2)
- "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 27)
- 22. "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 4)
- 23. "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 39)
- 24. "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 24)
- 25. "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 63)
- 26. "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 28)
- 27. "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 244)
- 28. "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 692)
- 29. "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 128)
- 30. "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 2417)
- 31. "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 6)

- 32. "Simple Distance Estimates for Gaia DR2 Stars with Radial Velocities", **Paul McMillan**, 2018, RNAAS, 2, 51. (Citations to date 12)
- 33. "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 11)
- 34. "Gaia DR2 Confirms that Candidate Thorne-Zytkow Object HV 2112 is in the Small Magellanic Cloud", **Paul McMillan** & Church, R., 2018, RNAAS, 2, 18.
- 35. "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 27)
- 36. "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)
- 37. "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 55)
- 38. "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 29)
- 39. "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 64)
- 40. "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 24)
- 41. "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 25)
- 42. "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 1723)
- 43. "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 525)
- 44. "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 1202)
- 45. "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 58)
- 46. "Chemical separation of disc components using RAVE", Wojno, J., Kordopatis, G., Steinmetz, M., Paul McMillan, et al., 2016, MNRAS, 461, 4246. (Citations to date 23)
- 47. "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 18)
- 48. "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 16)
- 49. "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 37)
- 50. "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 48)
- 51. "New distances to RAVE stars", Binney, J., Burnett, B., Kordopatis, G., **Paul McMillan**, et al., 2014, MNRAS, 437, 351. (Citations to date 87)
- 52. "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 50)
- 53. "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 241)
- 54. "Analysing surveys of our Galaxy I. Basic astrometric data", **Paul McMillan** & Binney, J., 2012, MNRAS, 419, 2251. (Citations to date 26)
- 55. "The solar neighbourhood in angle coordinates: the Hyades moving group", **Paul McMillan**, 2011, MNRAS, 418, 1565. (Citations to date 24)
- 56. "The dangers of deprojection of proper motions", **Paul McMillan** & Binney, J., 2009, MNRAS, 400, L103. (Citations to date 11)
- 57. "The haloes of merger remnants", **Paul McMillan**, Athanassoula, E. & Dehnen, W., 2007, MNRAS, 376, 1261. (Citations to date 15)