Adrian M. Price-Whelan — Publication List

Current position: Associate Research Scientist
Center for Computational Astrophysics, Flatiron Institute,
162 Fifth Ave., New York, NY 10010, USA
adrianmpw@gmail.com adrian.pw github.com/adrn arXiv

Publications — *ADS search*

Refereed: 144 articles (20 first author)
Citations 45851
h-index: 54
(as of *2025-05-05*)

Refereed

144 Bonaca, A.; **Price-Whelan, A. M.**, *Stellar streams in the Gaia era*, New Astronomy Reviews, 100, 101713, 2025 (arXiv:2405.19410) [33 citations]

143 Griffith, E. J. *et al.* (incl. **APW**), *Many Elements Matter: Detailed Abundance Patterns Reveal Star Formation and Enrichment Differences among Milky Way Structural Components*, AJ, 169, 280, 2025

142 Widrow, L. M. *et al.* (incl. **APW**), *An Equilibrium Model of the Galaxy Determined by Element Abundance Gradients*, ApJ, 983, 134, 2025

141 Nibauer, J.; Bonaca, A.; Spergel, D. N.; **Price-Whelan, A. M.** *et al.*, *StreamSculptor: Hamiltonian Perturbation Theory for Stellar Streams in Flexible Potentials with Differentiable Simulations*, ApJ, 983, 68, 2025 (arXiv:2410.21174) [4 citations]

140 Starkman, N.; **Price-Whelan, A. M.**; Nibauer, J., *unxt: A Python package for unit-aware computing with JAX*, JOSS, 10, 7771, 2025

139 Lu, Y. *et al.* (incl. **APW**), *Evidence of Truly Young High-α Dwarf Stars*, AJ, 169, 168, 2025 (arXiv:2410.02962) [3 citations]

138 Starkman, N. *et al.* (incl. **APW**), *Stream Members Only: Data-driven Characterization of Stellar Streams with Mixture Density Networks*, ApJ, 980, 253, 2025 (arXiv:2311.16960) [7 citations]

137 **Price-Whelan, A. M.**; Hunt, J. A. S.; Horta, D.; Oeur, M. *et al.*, *Data-driven Dynamics with Orbital Torus Imaging: A Flexible Model of the Vertical Phase Space of the Galaxy*, ApJ, 979, 115, 2025 (arXiv:2401.07903) [4 citations]

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134 Wagg, T.; Breivik, K.; Renzo, M.; **Price-Whelan, A. M.**, *cogsworth: A Gala of COSMIC Proportions Combining Binary Stellar Evolution and Galactic Dynamics*, ApJS, 276, 16, 2025 (arXiv:2409.04543) [4 citations]

133 Brooks, R. A. N.; Garavito-Camargo, N.; Johnston, K. V.; **Price-Whelan, A. M.** *et al.*, *LMC Calls, Milky Way Halo Answers: Disentangling the Effects of the MW–LMC Interaction on Stellar Stream Populations*, ApJ, 978, 79, 2025 (arXiv:2410.02574) [4 citations]

132 Hackshaw, Z. *et al.* (incl. **APW**), *[X/Fe] Marks the Spot: Mapping Chemical Azimuthal Variations in the Galactic Disk with APOGEE*, ApJ, 977, 143, 2024 (arXiv:2405.18120) [15 citations]

131 Sagear, S.; **Price-Whelan, A. M.**; Ballard, S.; Lu, Y. (. *et al.*, *zoomies: A Tool to Infer Stellar Age from Vertical Action in Gaia Data*, ApJ, 977, 49, 2024 (arXiv:2403.09878) [3 citations]

130 Garavito-Camargo, N.; **Price-Whelan, A. M.**; Samuel, J.; Cunningham, E. C. *et al.*, *On the Corotation of Milky Way Satellites: LMC-mass Satellites Induce Apparent Motions in Outer Halo Tracers*, ApJ, 975, 100, 2024 (arXiv:2311.11359) [10 citations]

129 Foster, S. *et al.* (incl. **APW**), *Carbon enrichment in APOGEE disk stars as evidence of mass transfer in binaries*, A&A, 689, 2024 (arXiv:2407.18130) [3 citations]

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126 Gaia Collaboration *et al.* (incl. **APW**), *Discovery of a dormant 33 solar-mass black hole in pre-release Gaia astrometry*, A&A, 686, 2024 (arXiv:2404.10486) [88 citations]

125 Cunningham, E. C.; Hunt, J. A. S.; **Price-Whelan, A. M.**; Johnston, K. V. *et al.*, *Chemical Cartography of the Sagittarius Stream with Gaia*, ApJ, 963, 95, 2024 (arXiv:2307.08730) [16 citations]

124 Hunt, J. A. S.; **Price-Whelan, A. M.**; Johnston, K. V.; McClure, R. L. *et al.*, *Radial phase spirals in the Solar neighbourhood*, MNRAS, 527, 11393, 2024 (arXiv:2401.08748) [9 citations]

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117 Lucey, M. *et al.* (incl. **APW**), *Carbon-enhanced metal-poor star candidates from BP/RP spectra in Gaia DR3*, MNRAS, 523, 4049, 2023 (arXiv:2206.08299) [24 citations]

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108 Dillamore, A. M.; Belokurov, V.; Evans, N. W.; **Price-Whelan, A. M.**, *The impact of a massive Sagittarius dSph on GD-1-like streams*, MNRAS, 516, 1685, 2022 (arXiv:2205.13547) [20 citations]

107 Anguiano, B. *et al.* (incl. **APW**), *White Dwarf Binaries across the H-R Diagram*, AJ, 164, 126, 2022 (arXiv:2207.13992) [9 citations]

106 Yoshida, S.; Grunblatt, S.; **Price-Whelan, A. M.**, *Constraining the Planet Occurrence Rate around Halo Stars of Potentially Extragalactic Origin*, AJ, 164, 119, 2022 (arXiv:2206.13556)

105 Myers, N. *et al.* (incl. **APW**), *The Open Cluster Chemical Abundances and Mapping Survey. VI. Galactic Chemical Gradient Analysis from APOGEE DR17*, AJ, 164, 85, 2022 (arXiv:2206.13650) [39 citations]

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103 Angus, R.; **Price-Whelan, A. M.**; Zinn, J. C.; Bedell, M. *et al.*, *The 3D Galactocentric Velocities of Kepler Stars: Marginalizing Over Missing Radial Velocities*, AJ, 164, 25, 2022 (arXiv:2205.08901) [3 citations]

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subgiant companions, MNRAS, 512, 5620, 2022 (arXiv:2203.06348) [55 citations]

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100 Gandhi, S. S.; Johnston, K. V.; Hunt, J. A. S.; **Price-Whelan, A. M.** *et al.*, *Snails across Scales: Local and Global Phase-mixing Structures as Probes of the Past and Future Milky Way*, ApJ, 928, 80, 2022 (arXiv:2107.03562) [20 citations]

99 Eilers, A. *et al.* (incl. **APW**), *Stellar Abundance Maps of the Milky Way Disk*, ApJ, 928, 23, 2022 (arXiv:2112.03295) [42 citations]

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94 Garavito-Camargo, N.; Patel, E.; Besla, G.; **Price-Whelan, A. M.** *et al.*, *The Clustering of Orbital Poles Induced by the LMC: Hints for the Origin of Planes of Satellites*, ApJ, 923, 140, 2021 (arXiv:2108.07321) [32 citations]

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91 Kounkel, M.; Covey, K. R.; Stassun, K. G.; **Price-Whelan, A. M.** *et al.*, *Double-lined Spectroscopic Binaries in the APOGEE DR16 and DR17 Data*, AJ, 162, 184, 2021 (arXiv:2107.10860) [64 citations]

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85 Putman, M. E.; Zheng, Y.; **Price-Whelan, A. M.**; Grcevich, J. *et al.*, *The Gas Content and Stripping of Local Group Dwarf Galaxies*, ApJ, 913, 53, 2021 (arXiv:2101.07809) [115 citations]

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76 Ahumada, R. *et al.* (incl. **APW**), *The 16th Data Release of the Sloan Digital Sky Surveys: First Release from the APOGEE-2 Southern Survey and Full Release of eBOSS Spectra*, ApJS, 249, 3, 2020 (arXiv:1912.02905) [1206 citations]

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