

Adrian M. Price-Whelan — Publication List

Current position: Flatiron Research Fellow

Center for Computational Astrophysics, Flatiron Institute,
162 Fifth Ave., New York, NY 10010, USA

✉ adrianmpw@gmail.com  adrian.pw  github.com/adrn  [arXiv](https://arxiv.org)

Publications — *ADS search*

Refereed: 117 articles (19 first author)

Citations 40074

h-index: 50

(as of 2024-09-09)

Refereed

- 117 Horta, D. *et al.* (incl. **APW**), *Stellar Mergers or Truly Young? Intermediate-age Stars on Highly Radial Orbits in the Milky Way's Stellar Halo*, *ApJ*, **971**, 170, 2024 (arXiv:2403.09777) [5 citations]
- 116 Castro-Ginard, A. *et al.* (incl. **APW**), *Gaia DR3 detectability of unresolved binary systems*, *A&A*, **688**, 2024 (arXiv:2404.14127) [3 citations]
- 115 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) [33 citations]
- 114 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) [12 citations]
- 113 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) [3 citations]
- 112 Horta, D.; **Price-Whelan, A. M.**; Hogg, D. W.; Johnston, K. V. *et al.*, *Orbital Torus Imaging: Acceleration, Density, and Dark Matter in the Galactic Disk Measured with Element Abundance Gradients*, *ApJ*, **962**, 165, 2024 (arXiv:2312.07664) [4 citations]
- 111 Aganze, C. *et al.* (incl. **APW**), *Prospects for Detecting Gaps in Globular Cluster Stellar Streams in External Galaxies with the Nancy Grace Roman Space Telescope*, *ApJ*, **962**, 151, 2024 (arXiv:2305.12045) [6 citations]
- 110 Ji, A. P. *et al.* (incl. **APW**), *Spectacular Nucleosynthesis from Early Massive Stars*, *ApJ*, **961**, 2024 (arXiv:2401.02484) [9 citations]
- 109 Darragh-Ford, E.; Hunt, J. A. S.; **Price-Whelan, A. M.**; Johnston, K. V., *ESCARGOT: Mapping Vertical Phase Spiral Characteristics Throughout the Real and Simulated Milky Way*, *ApJ*, **955**, 74, 2023 (arXiv:2302.09086) [11 citations]
- 108 Yavetz, T. D.; Johnston, K. V.; Pearson, S.; **Price-Whelan, A. M.** *et al.*, *Stream Fanning and Bifurcations: Observable Signatures of Resonances in Stellar Stream Morphology*, *ApJ*, **954**, 215, 2023 (arXiv:2212.11006) [6 citations]

- 107 Castro-Ginard, A. *et al.* (incl. **APW**), *Estimating the selection function of Gaia DR3 subsamples*, *A&A*, **677**, 2023 (arXiv:2303.17738) [16 citations]
- 106 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) [18 citations]
- 105 Hawkins, K.; **Price-Whelan, A. M.**; Sheffield, A. A.; Subrahimovic, A. Z. *et al.*, *On the Hunt for the Origins of the Orphan-Chenab Stream: Detailed Element Abundances with APOGEE and Gaia*, *ApJ*, **948**, 123, 2023 (arXiv:2205.14218) [5 citations]
- 104 Lucey, M. *et al.* (incl. **APW**), *Dynamically constraining the length of the Milky way bar*, *MNRAS*, **520**, 4779, 2023 (arXiv:2206.01798) [20 citations]
- 103 Cantat-Gaudin, T. *et al.* (incl. **APW**), *An empirical model of the Gaia DR3 selection function*, *A&A*, **669**, 2023 (arXiv:2208.09335) [44 citations]
- 102 Chamberlain, K.; **Price-Whelan, A. M.**; Besla, G.; Cunningham, E. C. *et al.*, *Implications of the Milky Way Travel Velocity for Dynamical Mass Estimates of the Local Group*, *ApJ*, **942**, 18, 2023 (arXiv:2204.07173) [19 citations]
- 101 Rix, H.; Chandra, V.; Andrae, R.; **Price-Whelan, A. M.** *et al.*, *The Poor Old Heart of the Milky Way*, *ApJ*, **941**, 45, 2022 (arXiv:2209.02722) [79 citations]
- 100 Pearson, S.; **Price-Whelan, A. M.**; Hogg, D. W.; Seth, A. C. *et al.*, *Mapping Dark Matter with Extragalactic Stellar Streams: The Case of Centaurus A*, *ApJ*, **941**, 19, 2022 (arXiv:2205.12277) [19 citations]
- 99 Hunt, J. A. S.; **Price-Whelan, A. M.**; Johnston, K. V.; Darragh-Ford, E., *Multiple phase spirals suggest multiple origins in Gaia DR3*, *MNRAS*, **516**, 2022 (arXiv:2206.06125) [33 citations]
- 98 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) [19 citations]
- 97 Anguiano, B. *et al.* (incl. **APW**), *White Dwarf Binaries across the H-R Diagram*, *AJ*, **164**, 126, 2022 (arXiv:2207.13992) [8 citations]
- 96 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)
- 95 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) [30 citations]
- 94 Astropy Collaboration; **Price-Whelan, A. M.**; Lim, P. L.; Earl, N. *et al.*, *The Astropy Project: Sustaining and Growing a Community-oriented Open-source Project and the Latest Major Release (v5.0) of the Core Package*, *ApJ*, **935**, 167, 2022 (arXiv:2206.14220) [1854 citations]
- 93 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) [2 citations]
- 92 El-Badry, K. *et al.* (incl. **APW**), *Unicorns and giraffes in the binary zoo: stripped giants with subgiant companions*, *MNRAS*, **512**, 5620, 2022 (arXiv:2203.06348) [42 citations]
- 91 Abdurro'uf *et al.* (incl. **APW**), *The Seventeenth Data Release of the Sloan Digital Sky Surveys: Complete Release of MaNGA, MaStar, and APOGEE-2 Data*, *ApJS*, **259**, 35, 2022

- (arXiv:2112.02026) [674 citations]
- 90 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) [16 citations]
- 89 Eilers, A. et al. (incl. **APW**), *Stellar Abundance Maps of the Milky Way Disk*, ApJ, **928**, 23, 2022 (arXiv:2112.03295) [35 citations]
- 88 Hedges, C. et al. (incl. **APW**), *Erratum: "TOI-2076 and TOI-1807: Two Young, Comoving Planetary Systems within 50 pc Identified by TESS that are Ideal Candidates for Further Follow Up" (2021, AJ, 162, 54)*, AJ, **163**, 143, 2022 [2 citations]
- 87 Ness, M. K. et al. (incl. **APW**), *The Homogeneity of the Star-forming Environment of the Milky Way Disk over Time*, ApJ, **926**, 144, 2022 (arXiv:2109.05722) [28 citations]
- 86 Hedges, C. et al. (incl. **APW**), *Erratum: "TOI-2076 and TOI-1807: Two young, Comoving Planetary Systems within 50 pc Identified by TESS that are Ideal Candidates for Further Follow Up" (2021, AJ, 162, 54)*, AJ, **162**, 305, 2021
- 85 Hasselquist, S. et al. (incl. **APW**), *APOGEE Chemical Abundance Patterns of the Massive Milky Way Satellites*, ApJ, **923**, 172, 2021 (arXiv:2109.05130) [99 citations]
- 84 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) [28 citations]
- 83 Santana, F. A. et al. (incl. **APW**), *Final Targeting Strategy for the SDSS-IV APOGEE-2S Survey*, AJ, **162**, 303, 2021 (arXiv:2108.11908) [63 citations]
- 82 Beaton, R. L. et al. (incl. **APW**), *Final Targeting Strategy for the Sloan Digital Sky Survey IV Apache Point Observatory Galactic Evolution Experiment 2 North Survey*, AJ, **162**, 302, 2021 (arXiv:2108.11907) [65 citations]
- 81 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) [53 citations]
- 80 Garavito-Camargo, N.; Besla, G.; Laporte, C. F. P.; **Price-Whelan, A. M.** et al., *Quantifying the Impact of the Large Magellanic Cloud on the Structure of the Milky Way's Dark Matter Halo Using Basis Function Expansions*, ApJ, **919**, 109, 2021 (arXiv:2010.00816) [88 citations]
- 79 Rix, H. et al. (incl. **APW**), *Selection Functions in Astronomical Data Modeling, with the Space Density of White Dwarfs as a Worked Example*, AJ, **162**, 142, 2021 (arXiv:2106.07653) [27 citations]
- 78 Grunblatt, S. K.; Zinn, J. C.; **Price-Whelan, A. M.**; Angus, R. et al., *Age-dating Red Giant Stars Associated with Galactic Disk and Halo Substructures*, ApJ, **916**, 88, 2021 (arXiv:2105.10505) [28 citations]
- 77 Hedges, C. et al. (incl. **APW**), *TOI-2076 and TOI-1807: Two Young, Comoving Planetary Systems within 50 pc Identified by TESS that are Ideal Candidates for Further Follow Up*, AJ, **162**, 54, 2021 (arXiv:2111.01311) [34 citations]
- 76 Foreman-Mackey, D. et al. (incl. **APW**), *exoplanet: Gradient-based probabilistic inference for exoplanet data & other astronomical time series*, JOSS, **6**, 3285, 2021

- (arXiv:2105.01994) [153 citations]
- 75 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) [100 citations]
- 74 Sheffield, A. A. et al. (incl. **APW**), *Chemodynamically Characterizing the Jhelum Stellar Stream with APOGEE-2*, ApJ, **913**, 39, 2021 (arXiv:2103.07488) [5 citations]
- 73 Valluri, M.; **Price-Whelan, A. M.**; Snyder, S. J., *Detecting the Figure Rotation of Dark Matter Halos with Tidal Streams*, ApJ, **910**, 150, 2021 (arXiv:2009.09004) [14 citations]
- 72 Miller, A. et al. (incl. **APW**), *Orbital and Stellar Parameters for 2M06464003+0109157: A Double-lined Eclipsing Binary of Spotted, Sub-solar Twins*, PASP, **133**, 44201, 2021 (arXiv:2103.10488) [4 citations]
- 71 **Price-Whelan, A. M.**; Hogg, D. W.; Johnston, K. V.; Ness, M. K. et al., *Orbital Torus Imaging: Using Element Abundances to Map Orbits and Mass in the Milky Way*, ApJ, **910**, 17, 2021 (arXiv:2012.00015) [16 citations]
- 70 Yavetz, T. D.; Johnston, K. V.; Pearson, S.; **Price-Whelan, A. M.** et al., *Separatrix divergence of stellar streams in galactic potentials*, MNRAS, **501**, 1791, 2021 (arXiv:2011.11919) [18 citations]
- 69 Mazzola, C. N. et al. (incl. **APW**), *The close binary fraction as a function of stellar parameters in APOGEE: a strong anticorrelation with α abundances*, MNRAS, **499**, 1607, 2020 (arXiv:2007.09059) [39 citations]
- 68 Shipp, N.; **Price-Whelan, A. M.**; Tavangar, K.; Mateu, C. et al., *Discovery of Extended Tidal Tails around the Globular Cluster Palomar 13*, AJ, **160**, 244, 2020 (arXiv:2006.12501) [23 citations]
- 67 Angus, R.; Beane, A.; **Price-Whelan, A. M.**; Newton, E. et al., *Exploring the Evolution of Stellar Rotation Using Galactic Kinematics*, AJ, **160**, 90, 2020 (arXiv:2005.09387) [40 citations]
- 66 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) [1057 citations]
- 65 Caldwell, N.; Bonaca, A.; **Price-Whelan, A. M.**; Sesar, B. et al., *A Larger Extent for the Ophiuchus Stream*, AJ, **159**, 287, 2020 (arXiv:2004.14350) [11 citations]
- 64 **Price-Whelan, A. M.**; Hogg, D. W.; Rix, H.; Beaton, R. L. et al., *Close Binary Companions to APOGEE DR16 Stars: 20,000 Binary-star Systems Across the Color-Magnitude Diagram*, ApJ, **895**, 2, 2020 (arXiv:2002.00014) [94 citations]
- 63 Bonaca, A. et al. (incl. **APW**), *High-resolution Spectroscopy of the GD-1 Stellar Stream Localizes the Perturber near the Orbital Plane of Sagittarius*, ApJ, **892**, 2020 (arXiv:2001.07215) [49 citations]
- 62 Pope, B. J. S. et al. (incl. **APW**), *No Massive Companion to the Coherent Radio-emitting M Dwarf GJ 1151*, ApJ, **890**, 2020 (arXiv:2002.07850) [14 citations]
- 61 Mumford, S. et al. (incl. **APW**), *SunPy: A Python package for Solar Physics*, JOSS, **5**, 1832, 2020 [27 citations]
- 60 Hayes, C. R. et al. (incl. **APW**), *Metallicity and α -Element Abundance Gradients along the Sagittarius Stream as Seen by APOGEE*, ApJ, **889**, 63, 2020 (arXiv:1912.06707) [58 citations]

- 59 Bonaca, A.; Pearson, S.; **Price-Whelan, A. M.**; Dey, A. *et al.*, *Variations in the Width, Density, and Direction of the Palomar 5 Tidal Tails*, *ApJ*, **889**, 70, 2020 (arXiv:1910.00592) [51 citations]
- 58 Nidever, D. L.; **Price-Whelan, A. M.**; Choi, Y.; Beaton, R. L. *et al.*, *Spectroscopy of the Young Stellar Association Price-Whelan 1: Origin in the Magellanic Leading Arm and Constraints on the Milky Way Hot Halo*, *ApJ*, **887**, 115, 2019 (arXiv:1910.05360) [20 citations]
- 57 **Price-Whelan, A. M.**; Nidever, D. L.; Choi, Y.; Schlafly, E. F. *et al.*, *Discovery of a Disrupting Open Cluster Far into the Milky Way Halo: A Recent Star Formation Event in the Leading Arm of the Magellanic Stream?*, *ApJ*, **887**, 19, 2019 (arXiv:1811.05991) [28 citations]
- 56 **Price-Whelan, A. M.**; Mateu, C.; Iorio, G.; Pearson, S. *et al.*, *Kinematics of the Palomar 5 Stellar Stream from RR Lyrae Stars*, *AJ*, **158**, 223, 2019 (arXiv:1910.00595) [33 citations]
- 55 Chakrabarti, S.; Chang, P.; **Price-Whelan, A. M.**; Read, J. *et al.*, *Antlia 2's Role in Driving the Ripples in the Outer Gas Disk of the Galaxy*, *ApJ*, **886**, 67, 2019 (arXiv:1906.04203) [17 citations]
- 54 Koppelman, H. H.; Helmi, A.; Massari, D.; **Price-Whelan, A. M.** *et al.*, *Multiple retrograde substructures in the Galactic halo: A shattered view of Galactic history*, *A&A*, **631**, 2019 (arXiv:1909.08924) [187 citations]
- 53 Bonaca, A.; Conroy, C.; **Price-Whelan, A. M.**; Hogg, D. W., *Multiple Components of the Jhelum Stellar Stream*, *ApJ*, **881**, 2019 (arXiv:1906.02748) [38 citations]
- 52 Casey, A. R. *et al.* (incl. **APW**), *Tidal Interactions between Binary Stars Can Drive Lithium Production in Low-mass Red Giants*, *ApJ*, **880**, 125, 2019 (arXiv:1902.04102) [79 citations]
- 51 Erkal, D. *et al.* (incl. **APW**), *The total mass of the Large Magellanic Cloud from its perturbation on the Orphan stream*, *MNRAS*, **487**, 2685, 2019 (arXiv:1812.08192) [265 citations]
- 50 Bonaca, A.; Hogg, D. W.; **Price-Whelan, A. M.**; Conroy, C., *The Spur and the Gap in GD-1: Dynamical Evidence for a Dark Substructure in the Milky Way Halo*, *ApJ*, **880**, 38, 2019 (arXiv:1811.03631) [169 citations]
- 49 Rasskazov, A. *et al.* (incl. **APW**), *Hypervelocity Stars from a Supermassive Black Hole-Intermediate-mass Black Hole Binary*, *ApJ*, **878**, 17, 2019 (arXiv:1810.12354) [27 citations]
- 48 Koposov, S. E. *et al.* (incl. **APW**), *Piercing the Milky Way: an all-sky view of the Orphan Stream*, *MNRAS*, **485**, 4726, 2019 (arXiv:1812.08172) [100 citations]
- 47 **Price-Whelan, A. M.**; Goodman, J., *Binary Companions of Evolved Stars in APOGEE DR14: Orbital Circularization*, *ApJ*, **867**, 5, 2018 (arXiv:1804.06841) [26 citations]
- 46 De Rosa, G. *et al.* (incl. **APW**), *Velocity-resolved Reverberation Mapping of Five Bright Seyfert 1 Galaxies*, *ApJ*, **866**, 133, 2018 (arXiv:1807.04784) [74 citations]
- 45 Kado-Fong, E.; Greene, J. E.; Hendel, D.; **Price-Whelan, A. M.** *et al.*, *Tidal Features at 0.05 z 0.45 in the Hyper Suprime-Cam Subaru Strategic Program: Properties and Formation Channels*, *ApJ*, **866**, 103, 2018 (arXiv:1805.05970) [53 citations]
- 44 Anderson, L.; Hogg, D. W.; Leistedt, B.; **Price-Whelan, A. M.** *et al.*, *Improving Gaia Parallax Precision with a Data-driven Model of Stars*, *AJ*, **156**, 145, 2018 (arXiv:1706.05055) [30 citations]
- 43 Astropy Collaboration; **Price-Whelan, A. M.**; Sipócz, B. M.; Günther, H. M. *et al.*, *The As-*

- tropy Project: Building an Open-science Project and Status of the v2.0 Core Package*, AJ, **156**, 123, 2018 (arXiv:1801.02634) [7011 citations]
- 42 Hendel, D. et al. (incl. **APW**), *SMHASH: anatomy of the Orphan Stream using RR Lyrae stars*, MNRAS, **479**, 570, 2018 (arXiv:1711.04663) [20 citations]
- 41 **Price-Whelan, A. M.**; Bonaca, A., *Off the Beaten Path: Gaia Reveals GD-1 Stars outside of the Main Stream*, ApJ, **863**, 2018 (arXiv:1805.00425) [111 citations]
- 40 **Price-Whelan, A. M.**; Hogg, D. W.; Rix, H.; De Lee, N. et al., *Binary Companions of Evolved Stars in APOGEE DR14: Search Method and Catalog of ~5000 Companions*, AJ, **156**, 18, 2018 (arXiv:1804.04662) [884 citations]
- 39 Hayes, C. R. et al. (incl. **APW**), *Disk-like Chemistry of the Triangulum-Andromeda Overdensity as Seen by APOGEE*, ApJ, **859**, 2018 (arXiv:1805.03706) [24 citations]
- 38 Bergemann, M. et al. (incl. **APW**), *Two chemically similar stellar overdensities on opposite sides of the plane of the Galactic disk*, Nature, **555**, 334, 2018 (arXiv:1803.00563) [61 citations]
- 37 Morris, B. M. et al. (incl. **APW**), *astroplan: An Open Source Observation Planning Package in Python*, AJ, **155**, 128, 2018 (arXiv:1712.09631) [59 citations]
- 36 Oh, S.; **Price-Whelan, A. M.**; Brewer, J. M.; Hogg, D. W. et al., *Kronos and Krios: Evidence for Accretion of a Massive, Rocky Planetary System in a Comoving Pair of Solar-type Stars*, ApJ, **854**, 138, 2018 (arXiv:1709.05344) [73 citations]
- 35 Sheffield, A. A.; **Price-Whelan, A. M.**; Tzanidakis, A.; Johnston, K. V. et al., *A Disk Origin for the Monoceros Ring and A13 Stellar Overdensities*, ApJ, **854**, 47, 2018 (arXiv:1801.01171) [36 citations]
- 34 Greco, J. P.; Greene, J. E.; **Price-Whelan, A. M.**; Leauthaud, A. et al., *Sumo Puff: Tidal debris or disturbed ultra-diffuse galaxy?*, PASJ, **70**, 2018 (arXiv:1704.06681) [18 citations]
- 33 Goulding, A. D. et al. (incl. **APW**), *Galaxy interactions trigger rapid black hole growth: An unprecedented view from the Hyper Suprime-Cam survey*, PASJ, **70**, 2018 (arXiv:1706.07436) [156 citations]
- 32 **Price-Whelan, A. M.**, *Gala: A Python package for galactic dynamics*, JOSS, **2**, 388, 2017 [222 citations]
- 31 Alam, S. et al. (incl. **APW**), *The clustering of galaxies in the completed SDSS-III Baryon Oscillation Spectroscopic Survey: cosmological analysis of the DR12 galaxy sample*, MNRAS, **470**, 2617, 2017 (arXiv:1607.03155) [2459 citations]
- 30 **Price-Whelan, A. M.**; Foreman-Mackey, D., *schwimmbad: A uniform interface to parallel processing pools in Python*, JOSS, **2**, 357, 2017 [26 citations]
- 29 Pearson, S.; **Price-Whelan, A. M.**; Johnston, K. V., *Gaps and length asymmetry in the stellar stream Palomar 5 as effects of Galactic bar rotation*, Nature Astronomy, **1**, 633, 2017 (arXiv:1703.04627) [102 citations]
- 28 Johnston, K. V.; **Price-Whelan, A. M.**; Bergemann, M.; Laporte, C. et al., *Disk Heating, Galactoseismology, and the Formation of Stellar Halos*, MDPI: galaxies, **5**, 44, 2017 (arXiv:1709.00491) [10 citations]
- 27 Li, T. S. et al. (incl. **APW**), *Exploring Halo Substructure with Giant Stars. XV. Discovery of a Connection between the Monoceros Ring and the Triangulum-Andromeda Overdensity?*, ApJ,

- 844, 74, 2017 (arXiv:1703.05384) [34 citations]
- 26 Oh, S.; **Price-Whelan, A. M.**; Hogg, D. W.; Morton, T. D. et al., *Comoving Stars in Gaia DR1: An Abundance of Very Wide Separation Comoving Pairs*, AJ, **153**, 257, 2017 (arXiv:1612.02440) [155 citations]
- 25 Sesar, B.; Fouesneau, M.; **Price-Whelan, A. M.**; Bailer-Jones, C. A. L. et al., *A Probabilistic Approach to Fitting Period-luminosity Relations and Validating Gaia Parallaxes*, ApJ, **838**, 107, 2017 (arXiv:1611.07035) [48 citations]
- 24 **Price-Whelan, A. M.**; Hogg, D. W.; Foreman-Mackey, D.; Rix, H., *The Joker: A Custom Monte Carlo Sampler for Binary-star and Exoplanet Radial Velocity Data*, ApJ, **837**, 20, 2017 (arXiv:1610.07602) [112 citations]
- 23 Charisi, M.; Bartos, I.; Haiman, Z.; **Price-Whelan, A. M.** et al., *A population of short-period variable quasars from PTF as supermassive black hole binary candidates*, MNRAS, **463**, 2145, 2016 (arXiv:1604.01020) [207 citations]
- 22 **Price-Whelan, A. M.**; Sesar, B.; Johnston, K. V.; Rix, H., *Spending Too Much Time at the Galactic Bar: Chaotic Fanning of the Ophiuchus Stream*, ApJ, **824**, 104, 2016 (arXiv:1601.06790) [48 citations]
- 21 Sesar, B.; **Price-Whelan, A. M.**; Cohen, J. G.; Rix, H. et al., *Evidence of Fanning in the Ophiuchus Stream*, ApJ, **816**, 2016 (arXiv:1512.00469) [11 citations]
- 20 **Price-Whelan, A. M.**; Johnston, K. V.; Valluri, M.; Pearson, S. et al., *Chaotic dispersal of tidal debris*, MNRAS, **455**, 1079, 2016 (arXiv:1507.08662) [65 citations]
- 19 Charisi, M.; Bartos, I.; Haiman, Z.; **Price-Whelan, A. M.** et al., *Multiple periods in the variability of the supermassive black hole binary candidate quasar PG1302-102?*, MNRAS, **454**, 2015 (arXiv:1502.03113) [24 citations]
- 18 **Price-Whelan, A. M.**; Johnston, K. V.; Sheffield, A. A.; Laporte, C. F. P. et al., *A reinterpretation of the Triangulum-Andromeda stellar clouds: a population of halo stars kicked out of the Galactic disc*, MNRAS, **452**, 676, 2015 (arXiv:1503.08780) [94 citations]
- 17 Sesar, B. et al. (incl. **APW**), *The Nature and Orbit of the Ophiuchus Stream*, ApJ, **809**, 59, 2015 (arXiv:1501.00581) [30 citations]
- 16 Alam, S. et al. (incl. **APW**), *The Eleventh and Twelfth Data Releases of the Sloan Digital Sky Survey: Final Data from SDSS-III*, ApJS, **219**, 12, 2015 (arXiv:1501.00963) [2130 citations]
- 15 Pearson, S.; Küpper, A. H. W.; Johnston, K. V.; **Price-Whelan, A. M.**, *Tidal Stream Morphology as an Indicator of Dark Matter Halo Geometry: The Case of Palomar 5*, ApJ, **799**, 28, 2015 (arXiv:1410.3477) [70 citations]
- 14 Andrews, J. J.; **Price-Whelan, A. M.**; Agüeros, M. A., *The Mass Distribution of Companions to Low-mass White Dwarfs*, ApJ, **797**, 2014 (arXiv:1412.0114) [19 citations]
- 13 **Price-Whelan, A. M.**; Hogg, D. W.; Johnston, K. V.; Hendel, D., *Inferring the Gravitational Potential of the Milky Way with a Few Precisely Measured Stars*, ApJ, **794**, 4, 2014 (arXiv:1405.6721) [50 citations]
- 12 Anderson, L. et al. (incl. **APW**), *The clustering of galaxies in the SDSS-III Baryon Oscillation Spectroscopic Survey: baryon acoustic oscillations in the Data Releases 10 and 11 Galaxy samples*, MNRAS, **441**, 24, 2014 (arXiv:1312.4877) [1319 citations]

- 11 Ahn, C. P. et al. (incl. **APW**), *The Tenth Data Release of the Sloan Digital Sky Survey: First Spectroscopic Data from the SDSS-III Apache Point Observatory Galactic Evolution Experiment*, *ApJS*, **211**, 17, 2014 (arXiv:1307.7735) [905 citations]
- 10 **Price-Whelan, A. M.**; Agüeros, M. A.; Fournier, A. P.; Street, R. et al., *Statistical Searches for Microlensing Events in Large, Non-uniformly Sampled Time-Domain Surveys: A Test Using Palomar Transient Factory Data*, *ApJ*, **781**, 35, 2014 (arXiv:1311.3683) [13 citations]
- 9 **Price-Whelan, A. M.**; Johnston, K. V., *Spitzer, Gaia, and the Potential of the Milky Way*, *ApJ*, **778**, 2013 (arXiv:1308.2670) [29 citations]
- 8 Astropy Collaboration et al. (incl. **APW**), *Astropy: A community Python package for astronomy*, *A&A*, **558**, 2013 (arXiv:1307.6212) [10044 citations]
- 7 Dawson, K. S. et al. (incl. **APW**), *The Baryon Oscillation Spectroscopic Survey of SDSS-III*, *AJ*, **145**, 10, 2013 (arXiv:1208.0022) [1799 citations]
- 6 Ahn, C. P. et al. (incl. **APW**), *The Ninth Data Release of the Sloan Digital Sky Survey: First Spectroscopic Data from the SDSS-III Baryon Oscillation Spectroscopic Survey*, *ApJS*, **203**, 21, 2012 (arXiv:1207.7137) [1277 citations]
- 5 Eisenstein, D. J. et al. (incl. **APW**), *SDSS-III: Massive Spectroscopic Surveys of the Distant Universe, the Milky Way, and Extra-Solar Planetary Systems*, *AJ*, **142**, 72, 2011 (arXiv:1101.1529) [1903 citations]
- 4 Aihara, H. et al. (incl. **APW**), *Erratum: "The Eighth Data Release of the Sloan Digital Sky Survey: First Data from SDSS-III"* (2011, *ApJS*, 193, 29), *ApJS*, **195**, 26, 2011 [57 citations]
- 3 Blanton, M. R. et al. (incl. **APW**), *Improved Background Subtraction for the Sloan Digital Sky Survey Images*, *AJ*, **142**, 31, 2011 (arXiv:1105.1960) [439 citations]
- 2 Aihara, H. et al. (incl. **APW**), *The Eighth Data Release of the Sloan Digital Sky Survey: First Data from SDSS-III*, *ApJS*, **193**, 29, 2011 (arXiv:1101.1559) [1259 citations]
- 1 **Price-Whelan, A. M.**; Hogg, D. W., *What Bandwidth Do I Need for My Image?*, *PASP*, **122**, 207, 2010 (arXiv:0910.2375) [4 citations]

Preprints & other

- 25 Foote, H. R. et al. (incl. **APW**), *Segue 2 Recently Collided with the Cetus-Palca Stream: New Opportunities to Constrain Dark Matter in an Ultra-Faint Dwarf*, 2024 (arXiv:2408.06415)
- 24 Foster, S. et al. (incl. **APW**), *Carbon enrichment in APOGEE disk stars as evidence of mass transfer in binaries*, 2024 (arXiv:2407.18130)
- 23 Frankel, N.; Hogg, D. W.; Tremaine, S.; **Price-Whelan, A. M.** et al., *Iron Snails: non-equilibrium dynamics and spiral abundance patterns*, 2024 (arXiv:2407.07149)
- 22 Bonaca, A.; **Price-Whelan, A. M.**, *Stellar Streams in the Gaia Era*, 2024 (arXiv:2405.19410) [6 citations]
- 21 Hackshaw, Z. et al. (incl. **APW**), *[X/Fe] Marks the Spot: Mapping Chemical Azimuthal Variations in the Galactic Disk with APOGEE*, 2024 (arXiv:2405.18120)
- 20 Sagar, S.; **Price-Whelan, A. M.**; Ballard, S.; Yuxi et al., *zoomies: A tool to infer stellar age from vertical action in Gaia data*, 2024 (arXiv:2403.09878)

- 19 **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*, 2024 (arXiv:2401.07903) [2 citations]
- 18 Starkman, N. et al. (incl. **APW**), *Stream Members Only: Data-Driven Characterization of Stellar Streams with Mixture Density Networks*, 2023 (arXiv:2311.16960)
- 17 Garavito-Camargo, N.; **Price-Whelan, A. M.**; Samuel, J.; Cunningham, E. C. et al., *On the co-rotation of Milky Way satellites: LMC-mass satellites induce apparent motions in outer halo tracers*, 2023 (arXiv:2311.11359) [6 citations]
- 16 Blanton, M. R. et al. (incl. **APW**), *The Future of Astronomical Data Infrastructure: Meeting Report*, 2023 (arXiv:2311.04272)
- 15 Dey, A. et al. (incl. **APW**), *RomAndromeda: The Roman Survey of the Andromeda Halo*, 2023 (arXiv:2306.12302) [2 citations]
- 14 Han, J. J.; Dey, A.; **Price-Whelan, A. M.**; Najita, J. et al., *NANCY: Next-generation All-sky Near-infrared Community survey*, 2023 (arXiv:2306.11784) [3 citations]
- 13 Grunblatt, S. K. et al. (incl. **APW**), *Roman CCS White Paper: Adding Fields Hosting Globular Clusters To The Galactic Bulge Time Domain Survey*, 2023 (arXiv:2306.10647) [3 citations]
- 12 Breivik, K. et al. (incl. **APW**), *From Data to Software to Science with the Rubin Observatory LSST*, 2022 (arXiv:2208.02781) [8 citations]
- 11 Chance, Q. et al. (incl. **APW**), *paired: A Statistical Framework for Determining Stellar Binarity with Gaia RVs. I. Planet Hosting Binaries*, 2022 (arXiv:2206.11275) [5 citations]
- 10 Bechtol, K. et al. (incl. **APW**), *Snowmass2021 Cosmic Frontier White Paper: Dark Matter Physics from Halo Measurements*, 2022 (arXiv:2203.07354) [48 citations]
- 9 Katz, D. S. et al. (incl. **APW**), *Software Sustainability & High Energy Physics*, 2020 (arXiv:2010.05102) [2 citations]
- 8 Oladosu, A. et al. (incl. **APW**), *Meta-Learning for One-Class Classification with Few Examples using Order-Equivariant Network*, 2020 (arXiv:2007.04459) [4 citations]
- 7 Hogg, D. W.; **Price-Whelan, A. M.**; Leistedt, B., *Data Analysis Recipes: Products of multivariate Gaussians in Bayesian inferences*, 2020 (arXiv:2005.14199) [6 citations]
- 6 Ness, M. et al. (incl. **APW**), *In Pursuit of Galactic Archaeology: Astro2020 Science White Paper*, 2019 (arXiv:1907.05422)
- 5 Buckley, M. R.; Hogg, D. W.; **Price-Whelan, A. M.**, *Applying Liouville's Theorem to Gaia Data*, 2019 (arXiv:1907.00987) [4 citations]
- 4 The MSE Science Team et al. (incl. **APW**), *The Detailed Science Case for the Maunakea Spectroscopic Explorer, 2019 edition*, 2019 (arXiv:1904.04907) [73 citations]
- 3 Breivik, K.; **Price-Whelan, A. M.**; D'Orazio, D. J.; Hogg, D. W. et al., *Stellar multiplicity: an interdisciplinary nexus*, 2019 (arXiv:1903.05094) [2 citations]
- 2 Bergemann, M. et al. (incl. **APW**), *Stellar Astrophysics and Exoplanet Science with the Maunakea Spectroscopic Explorer (MSE)*, 2019 (arXiv:1903.03157) [2 citations]
- 1 **Price-Whelan, A. M.**; Oh, S.; Spergel, D. N., *Spectroscopic confirmation of very-wide stellar binaries and large-separation comoving pairs from Gaia DR1*, 2017 (arXiv:1709.03532) [17 citations]