

Kevin Charles Schlaufman

JHU P&A, 3400 N Charles St, Baltimore, MD 21218 · (410) 516-3295 · kschlaufman@jhu.edu · www.kevinschlaufman.com

Peer-reviewed First-author Publications

Advisee authors are underlined.

16. **Schlaufman, K. C.** & Halpern, N. D. 2021, "The Occurrence-weighted Median Planets Discovered by Transit Surveys Orbiting Solar-type Stars and Their Implications for Planet Formation and Evolution", *Astrophysical Journal*, 921, 24
15. **Schlaufman, K. C.**, Thompson, I. B., & Casey, A. R. 2018, "An Ultra Metal-poor Star Near the Hydrogen-burning Limit", *Astrophysical Journal*, 867, 98
14. **Schlaufman, K. C.** 2018, "Evidence of an Upper Bound on the Masses of Planets and Its Implications for Giant Planet Formation", *Astrophysical Journal*, 853, 37
13. **Schlaufman, K. C.** & Winn J. N. 2016, "The Occurrence of Additional Giant Planets Inside the Water-Ice Line in Systems with Hot Jupiters: Evidence Against High-Eccentricity Migration", *Astrophysical Journal*, 825, 62
12. **Schlaufman, K. C.** 2015, "A Continuum of Planet Formation between 1 and 4 Earth Radii", *Astrophysical Journal Letters*, 799, L26
11. **Schlaufman, K. C.** & Casey, A. R. 2014, "The Best and Brightest Metal-poor Stars", *Astrophysical Journal*, 797, 13
10. **Schlaufman, K. C.** 2014, "Tests of in situ Formation Scenarios for Compact Multiplanet Systems", *Astrophysical Journal*, 790, 91
9. **Schlaufman, K. C.** & Winn, J. N. 2013, "Evidence for the Tidal Destruction of Hot Jupiters by Subgiant Stars", *Astrophysical Journal*, 772, 143
8. **Schlaufman, K. C.**, Rockosi, C. M., Lee, Y. S., et al. 2012, "Insight Into the Formation of the Milky Way through Cold Halo Substructure. III. Statistical Chemical Tagging in the Smooth Halo", *Astrophysical Journal*, 749, 77
7. **Schlaufman, K. C.** & Laughlin, G. 2011, "Kepler Exoplanet Candidate Host Stars Are Preferentially Metal Rich", *Astrophysical Journal*, 738, 177
6. **Schlaufman, K.C.**, Rockosi, C. M., Lee, Y. S., Beers, T. C., & Allende Prieto, C. 2011, "Insight into the Formation of the Milky Way through Cold Halo Substructure. II. The Elemental Abundances of ECHOS", *Astrophysical Journal*, 734, 49
5. **Schlaufman, K. C.**, Lin, D. N. C., & Ida, S. 2010, "A Population of Very Hot Super-Earths in Multiple-planet Systems Should be Uncovered by Kepler", *Astrophysical Journal Letters*, 724, L53
4. **Schlaufman, K. C.** & Laughlin, G. 2010, "A physically-motivated photometric calibration of M Dwarf metallicity", *Astronomy & Astrophysics*, 519, A105
3. **Schlaufman, K. C.** 2010, "Evidence of Possible Spin-orbit Misalignment Along the Line of Sight in Transiting Exoplanet Systems", *Astrophysical Journal*, 719, 602
2. **Schlaufman, K. C.**, Rockosi, C. M., Allende Prieto, C., et al. 2009, "Insight into the Formation of the Milky Way Through Cold Halo Substructure. I. The ECHOS of Milky Way Formation", *Astrophysical Journal*, 703, 2177
1. **Schlaufman, K. C.**, Lin, D. N. C., & Ida, S. 2009, "The Signature of the Ice Line and Modest Type I Migration in the Observed Exoplanet Mass-Semimajor Axis Distribution", *Astrophysical Journal*, 691, 1321

Peer-reviewed Second-author Publications

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20. Cheng, S., **Schlaufman, K. C.**, & Caiazzo, I. 2025, "A Candidate Giant Planet Companion to the Massive, Young White Dwarf GALEX J071816.4+373139 Informs the Occurrence of Giant Planets Orbiting B Stars", *AAS Journals*, submitted
19. Rustamkulov, Z., **Schlaufman, K. C.**, Sing, D. K., et al. 2025, "The Transit Age: Precise Exoplanet System Ages in the Era of Gaia and JWST", *AAS Journals*, submitted

18. Nataf, D. M., **Schlaufman, K. C.**, Reggiani, R., & Hahn, I. 2024, "Accurate, Precise, and Physically Self-consistent Ages and Metallicities for 400,000 Solar Neighborhood Subgiant Branch Stars", *Astrophysical Journal*, 976, 87
17. Schmidt, S. P., **Schlaufman, K. C.**, & Hamer, J. H. 2024, "Resonant and Ultra-short-period Planet Systems are at Opposite Ends of the Exoplanet Age Distribution", *Astronomical Journal*, 168, 109
16. Hamer, J. H. & **Schlaufman, K. C.** 2024, "Kepler-discovered Multiple-planet Systems Near Period Ratios Suggestive of Mean-motion Resonances are Young", *Astronomical Journal*, 167, 55
15. Schmidt, S. P., **Schlaufman, K. C.**, Ding, K., et al. 2023, "Verification of Gaia DR3 Single-lined Spectroscopic Binary Solutions With Three Transiting Low-mass Secondaries", *Astronomical Journal*, 166, 225
14. Reggiani, H., **Schlaufman, K. C.**, & Casey, A. R. 2023, "Iron-rich Metal-poor Stars and the Astrophysics of Thermonuclear Events Observationally Classified as Type Ia Supernovae. I. Establishing the Connection", *Astronomical Journal*, 166, 128
13. Reeves, Z., **Schlaufman, K. C.**, & Reggiani, H. 2023, "The Dependence of Iron-rich Metal-poor Star Occurrence on Galactic Environment Supports an Origin in Thermonuclear Supernova Nucleosynthesis", *Astronomical Journal*, 166, 127
12. Dai, F., **Schlaufman, K. C.**, Reggiani, H., et al. 2023, "A Mini-Neptune Orbiting the Metal-poor K Dwarf BD+29 2654", *Astronomical Journal*, 166, 49
11. Hamer, J. H. & **Schlaufman, K. C.** 2022, "Evidence for the Late Arrival of Hot Jupiters in Systems with High Host-star Obliquities", *Astronomical Journal*, 164, 26
10. Reggiani, H., **Schlaufman, K. C.**, Healy, B. F., Lothringer, J. D., & Sing, D. K. 2022, "Evidence that the Hot Jupiter WASP-77 A b Formed Beyond Its Parent Protoplanetary Disk's H₂O Ice Line", *Astronomical Journal*, 163, 159
9. Reggiani, H., **Schlaufman, K. C.**, Casey, A. R., Simon, J. D., & Ji, A. P. 2021, "The Most Metal-poor Stars in the Magellanic Clouds are *r*-process Enhanced", *Astronomical Journal*, 162, 229
8. Woody, T. & **Schlaufman, K. C.** 2021, "The Age–Metallicity–Specific Orbital Energy Relation for the Milky Way's Globular Cluster System Confirms the Importance of Accretion for Its Formation", *Astronomical Journal*, 162, 42
7. Chandra, V. & **Schlaufman, K. C.** 2021, "Searching for Low-mass Population III Stars Disguised as White Dwarfs", *Astronomical Journal*, 161, 197
6. Lu, C. X., **Schlaufman, K. C.**, & Cheng, S. 2020, "An Increase in Small Planet Occurrence with Metallicity for Late-type Dwarf Stars in the Kepler Field and Its Implications for Planet Formation", *Astronomical Journal*, 160, 253
5. Reggiani, H., **Schlaufman, K. C.**, Casey, A. R., & Ji, A. P. 2020, "The Most Metal-poor Stars in the Inner Bulge", *Astronomical Journal*, 160, 173
4. Hamer, J. H. & **Schlaufman, K. C.** 2020, "Ultra-short-period Planets are Stable Against Tidal Inspiral", *Astronomical Journal*, 160, 138
3. Hamer, J. H. & **Schlaufman, K. C.** 2019, "Hot Jupiters are Destroyed by Tides While Their Host Stars Are on the Main Sequence", *Astronomical Journal*, 158, 190
2. Casey, A. R. & **Schlaufman, K. C.** 2017, "The Universality of the Rapid Neutron-capture Process Revealed by a Possible Disrupted Dwarf Galaxy Star", *Astrophysical Journal*, 850, 179
1. Casey, A. R. & **Schlaufman, K. C.** 2015, "Chemistry of the Most Metal-poor Stars in the Bulge and the $z \geq 10$ Universe", *Astrophysical Journal*, 809, 110

Peer-reviewed Nth-author Publications

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45. Plotnykov, M., Valencia, D., Ross, A., Reggiani, H., & **Schlaufman, K. C.** 2025 "Evidence of 1:1 Correlations between Rocky Super-Earths and Their Host Stars", *AAS Journals*, submitted
44. Ross, A., Reggiani, H., **Schlaufman, K. C.**, Plotnykov, M., & Valencia, D. 2025 "Terrestrial Exoplanet Internal Structure Constraints Enabled by Comprehensive Host Star Characterization Reveal that Terrestrial Planets in Mean-motion Resonances are Water Rich", *AAS Journals*, submitted

43. Wang, G., Balmer, W. O., Pueyo, L., et al. 2025, "A Revised Density Estimate for the Largest Known Exoplanet HAT-P-67 b", *Astronomical Journal*, in press
42. Lothringer, J. D., Bennett, K. A., Sing, D. K., et al. 2025, "Refractory and Volatile Species in the UV-to-IR Transmission Spectrum of the Ultra-hot Jupiter WASP-178 b with HST and JWST", *Astronomical Journal*, in press
41. Saunders, N., Grunblatt, S. K., Huber, D., et al. 2025, "TESS Giants Transiting Giants. VII. A Hot Saturn Orbiting an Oscillating Red Giant", *Astronomical Journal*, 169, 75
40. Sing, D. K., Evans-Soma, T. M., Rustamkulov, Z., et al. 2024, "An Absolute Mass, Precise Age, and Hints of Planetary Winds for WASP-121 A and b from a JWST NIRSpec Phase Curve", *Astronomical Journal*, 168, 231
39. Marcussen, M. L., Albrecht, S. H., Winn, J. N., et al. 2024, "The BANANA Project. VII. High Eccentricity Predicts Spin-Orbit Misalignment in Binaries", *Astrophysical Journal*, 975, 149
38. Yana Galarza, J., Reggiani, H., Ferreira, T., et al. 2024, "Detailed Abundances of the Planet-hosting TOI-1173 A/B System: Possible Evidence of Planet Engulfment in a Very Wide Binary", *Astrophysical Journal*, 974, 122
37. Grunblatt, S. K., Saunders, N., Huber, D., et al. 2024, "TESS Giants Transiting Giants. IV. A Low-density Hot Neptune Orbiting a Red Giant Star", *Astronomical Journal*, 168, 1
36. Ji, A. J., Curtis, S., Storm, N., et al. 2024, "Spectacular Nucleosynthesis from Early Massive Stars", *Astrophysical Journal Letters*, 961, L41
35. Reggiani, H., Yana Galarza, J., Schlafman, K. C., et al. 2024, "Insight into the Formation of β Pic b through the Composition of Its Parent Protoplanetary Disk as Revealed by the β Pic Moving Group Member HD 181327", *Astronomical Journal*, 167, 45
34. Almeida, A., Anderson, S. F., Argudo-Fernández, M., et al. 2023, "The Eighteenth Data Release of the Sloan Digital Sky Surveys: Targeting and First Spectra from SDSS-V", *Astrophysical Journal Supplement Series*, 267, 44
33. Healy, B. F., McCullough, P. R., Schlafman, K. C., & Kovacs, G. 2023, "A Study of Stellar Spins in 15 Open Clusters", *Astrophysical Journal*, 944, 39
32. Reggiani, H., Ji, A. P., Schlafman, K. C., et al. 2022, "The Chemical Composition of Extreme-velocity Stars", *Astronomical Journal*, 163, 252
31. Shank, D., Beers, T. C., Placco, V. M., et al. 2022, "Dynamically Tagged Groups of Metal-Poor Stars from the Best & Brightest Survey", *Astrophysical Journal*, 926, 26
30. Healy, B. F., McCullough, P. R., & Schlafman, K. C. 2021, "Stellar Spins in the Pleiades, Praesepe and M35 Open Clusters", *Astrophysical Journal*, 923, 23
29. Santana, F. A., Beaton, R. L., Covey, K. R., et al. 2021, "Final Targeting Strategy for the SDSS-IV APOGEE-2S Survey", *Astronomical Journal*, 162, 303
28. Yana Galarza, J., López-Valdivia, R., Lorenzo-Oliveira, D., et al. 2021, "Searching for new solar twins: The Inti survey for the Northern Sky", *Monthly Notices of the Royal Astronomical Society*, 504, 1873
27. Lothringer, J. D., Rustamkulov, Z., Sing, D. K., et al. 2021, "A New Window into Planet Formation and Migration: Refractory-to-Volatile Elemental Ratios in Ultra-hot Jupiters", *Astrophysical Journal*, 914, 12
26. Limberg, G., Santucci, R. M., Rossi, S., et al. 2021, "Targeting Bright Metal-poor Stars in the Disk and Halo Systems of the Galaxy", *Astrophysical Journal*, 913, 11
25. Hwang, H.-C., Ting, Y.-S., Schlafman, K. C., Zakamska, N. L., & Wyse, R. F. G. 2021, "The non-monotonic, strong metallicity dependence of the wide-binary fraction", *Monthly Notices of the Royal Astronomical Society*, 501, 4329
24. Hwang, H.-C., Hamer, J. H., Zakamska, N. L., & Schlafman, K. C. 2020, "Very wide companion fraction from Gaia DR2: A weak or no enhancement for hot Jupiter hosts, and a strong enhancement for contact binaries", *Monthly Notices of the Royal Astronomical Society*, 497, 2250
23. Dai, F., Winn, J. N., Schlafman, K., et al. 2020, "CKS IX: Revisiting the Minimum-Mass Extrasolar Nebula with Precise Stellar Parameters", *Astronomical Journal*, 159, 247
22. Norfolk, B. J., Casey, A. R., Karakas, A. I., et al. 2019, "Discovery of s-process enhanced stars in the LAMOST survey", *Monthly Notices of the Royal Astronomical Society*, 490, 2219

21. Casey, A. R., Ho, A. Y. Q., Ness, M., et al. 2019, "Tidal Interactions between Binary Stars Can Drive Lithium Production in Low-mass Red Giants", *Astrophysical Journal*, 880, 125
20. Kemp, A. J., Casey, A. R., Miles, M. T., et al. 2018, "On the discovery of K-enhanced and possibly Mg-depleted stars throughout the Milky Way", *Monthly Notices of the Royal Astronomical Society*, 480, 1384
19. Casey, A. R., Kennedy, G. M., Hartle, T. R., & **Schlaufman, K. C.** 2018, "Infrared colours and inferred masses of metal-poor giant stars in the Kepler field", *Monthly Notices of the Royal Astronomical Society*, 478, 2812
18. Winn, J. N., Petigura, E. A., Morton, T. D., et al. 2017, "Constraints on Obliquities of Kepler Planet-hosting Stars", *Astronomical Journal*, 154, 270
17. Winn, J. N., Sanchis-Ojeda, R., Rogers, L., et al. 2017, "Absence of a Metallicity Effect for Ultra-short-period Planets", *Astronomical Journal*, 154, 60
16. Casey, A. R., Keller, S. C., Alves-Brito, A., et al. 2014, "The Aquarius comoving group is not a disrupted classical globular cluster", *Monthly Notices of the Royal Astronomical Society*, 443, 828
15. Abbott, B., Abbott, R., Adhikari, R., et al. 2006, "Joint LIGO and TAMA300 search for gravitational waves from inspiralling neutron star binaries", *Physical Review D*, 73, 102002
14. Abbott, B., Abbott, R., Adhikari, R., et al. 2006, "Search for gravitational waves from binary black hole inspirals in LIGO data", 2006, *Physical Review D*, 73, 062001
13. Abbott, B., Abbott, R., Adhikari, R., et al. 2005, "Upper limits from the LIGO and TAMA detectors on the rate of gravitational-wave bursts", *Physical Review D*, 72, 102004
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8. Abbott, B., Abbott, R., Adhikari, R., et al. 2005, "Search for gravitational waves associated with the gamma ray burst GRB030329 using the LIGO detectors" *Physical Review D*, 72, 042001
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4. Abbott, B., Abbott, R., Adhikari, R., et al. 2004, "First upper limits from LIGO on gravitational wave bursts", *Physical Review D*, 69, 102001
3. Abbott, B., Abbott, R., Adhikari, R., et al. 2004, "Setting upper limits on the strength of periodic gravitational waves from PSR J1939+2134 using the first science data from the GEO 600 and LIGO detectors", *Physical Review D*, 69, 082004
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