

Jared Siegel

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Education

Princeton University	2027
PhD in Astrophysics	
University of Chicago	2022
BA in Physics	
BS in Astrophysics	

Publications

- First Author
12. **Siegel, J.**, Amon A., et al. *Joint X-ray, kinetic Sunyaev-Zeldovich, and weak lensing measurements: toward a consensus picture of efficient gas expulsion from groups and clusters*, Submitted to ApJ
 11. **Siegel, J.**, McCullough, J., Amon A., et al. *Intrinsic alignment demographics for next-generation lensing: Revealing galaxy property trends with DESI Y1 direct measurements*, Submitted to MNRAS
 10. **Siegel, J.**, & Melchior, P. *Spatially Resolved Galaxy-Dust Modeling with Coupled Data-Driven Priors*, ApJ, 986, 212 (2025)
 9. **Siegel, J.**, Setton, D., Greene, J., et al. *UNCOVER: Significant Reddening in Cosmic Noon Quiescent Galaxies*, ApJ, 985, 125 (2025)
 8. **Siegel, J.**, Halverson, S., Luhn, J., Zhao, L., Al Moulla, K., et al. *Quiet Please: Detrending Radial Velocity Variations from Stellar Activity with a Physically Motivated Spot Model*, AJ, 168, 158 (2024)
 7. **Siegel, J.**, Kiato, I., Kalogera, V., Berry, C., Maccarone, T., et al. *Investigating the Lower Mass Gap with Low Mass X-ray Binary Population Synthesis*, ApJ, 952, 212 (2023)
 6. **Siegel, J.**, Winn, J., Albrecht, S., *Ponderings on the Possible Preponderance of Perpendicular Planets*, ApJ Letters, 950, 1 (2023)
 5. **Siegel, J.**, & Rogers, L., *Mass Upper Bounds for Over 50 Kepler Planets Using Low-S/N Transit Timing Variations*, AJ, 164, 139 (2022)
 4. **Siegel, J.**, Rubenzahl, R., Halverson, S., & Howard, A., *Into the Depths: a new activity metric for high-precision radial velocity measurements based on line depth variations*, AJ, 163, 260 (2022)
 3. **Siegel, J.**, Dwarkadas, V. V., Frank, K. A., & Burrows, D. N., *Can the Fe K-alpha line reliably predict supernova remnant progenitors?*, ApJ, 922, 67 (2021)
 2. **Siegel, J.**, & Fabrycky, D., *Resonant Chains of Exoplanets: Libration Centers for Laplace Angles*, AJ, 161, 290 (2021)
 1. **Siegel, J.**, Dwarkadas, V. V., Frank, K., & Burrows, D. N., *Analysis of XMM-Newton Observations of Supernova Remnant W49B and Clues to the Progenitor*, ApJ, 904, 175 (2020)

Awards and Grants

National Science Foundation

NSF Graduate Research Fellowship 2022 to present

Princeton University

Centennial Fellowship 2022 to present

American Astronomical Society

Chambliss Astronomy Student Award Summer 2020

Teaching

Teaching assistant—Princeton University, Dept. of Astrophysical Sciences 2023—Present

AST 205 | Planets in the Universe

AST 207 | A Gateway to Science: Observational Astronomy in the James Webb Era

APC 524 | Software Engineering for Scientific Computing

Teaching assistant—University of Chicago, Dept. of A. & A. 2020—2021

ASTR 211 | Computational Techniques in Astrophysics

ASTR 205 | Intro. to Python Programming with Applications to Astro Statistics