

Jared Siegel

Princeton University, Department of Astrophysical Sciences — Princeton, NJ 08544

✉ siegeljc@princeton.edu

🌐 jaredcsiegel.github.io

🆔 0000-0002-9337-0902

Education

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

Publications

- First Author
10. **Siegel, J.**, Setton, D., Greene, J., et al. *UNCOVER: Significant Reddening in Cosmic Noon Quiescent Galaxies*, Submitted to ApJ
 9. **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,
 8. **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)
 7. **Siegel, J.**, Winn, J., Albrecht, S., *Ponderings on the Possible Preponderance of Perpendicular Planets*, ApJ Letters, 950, 1 (2023)
 6. **Siegel, J.**, & Rogers, L., *Mass Upper Bounds for Over 50 Kepler Planets Using Low-S/N Transit Timing Variations*, AJ, 164, 139 (2022)
 5. **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)
 4. **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)
 3. **Siegel, J.**, & Fabrycky, D., *Resonant Chains of Exoplanets: Libration Centers for Laplace Angles*, AJ, 161, 290 (2021)
 2. **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)
 1. **Siegel, J.**, Dwarkadas, V. V., Frank, K., Burrows, D. N., & Panfichi, A., *Smoothed particle inference analysis and abundance calculations of DEM L71, and comparison to SN explosion models*, Astronomische Nachrichten, 341, 163, (2020)
- Contributing Author
1. Burrows, A., Halverson, S., **Siegel, J.**, ..., *The Death of Vulcan: NEID Reveals That the Planet Candidate Orbiting HD 26965 Is Stellar Activity*, AJ, 167, 243, (2024)

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

Presentations

Physically motivated stellar activity mitigation | EPRV RCN (invited) Fall 2023

Ponderings on the Possible Preponderance of Perpendicular Planets | ERES Summer 2023

Mitigating stellar noise by mapping RV activity signals | EPRV 5 Spring 2023

Teaching

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

AST 205 | Planets in the Universe

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