

# 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 .....
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)
- Collaboration Paper .....
2. Polanski et al., *The TESS-Keck Survey. XX. 15 New TESS Planets and a Uniform RV Analysis of All Survey Targets*, Astrophysical Journal Supplement Series, 272, 32, (2024)
  1. Setton et al., *UNCOVER NIRSpec/PRISM Spectroscopy Unveils Evidence of Early Core Formation in a Massive, Centrally Dusty Quiescent Galaxy at  $z_{\text{spec}} = 3.97$* , ApJ, submitted

## 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