

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
7. **Siegel, J.**, Kiato, I., Kalogera, V., Berry, C., Maccarone, T., Breivik, K., et al. *Investigating the Lower Mass Gap with Low Mass X-ray Binary Population Synthesis*, submitted ApJ
 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, 63, 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)

Awards and Grants

National Science Foundation

NSF Graduate Research Fellowship 2022 to present

Princeton University

Centennial Fellowship 2022 to present

University of Chicago

Micro-Metcalf Grant	Spring 2020
Summer Action Grant	June 2019
University Scholar Award	2018—2022
Dean's list	2018—2022

American Astronomical Society

Chambliss Astronomy Student Award June 2020

Presentations

Talks

Midstates Consortium Research Symposium	Oct. 2021
California Institute of Technology Summer Seminar	Aug. 2021
University of Chicago Undergraduate Research Symposium	June 2020

Posters

University of Chicago Undergraduate Research Symposium	June 2021
236th American Astronomical Society Meeting	June 2020
Midstates Consortium for Math and Science	Nov. 2019
UCISTEM Undergraduate Research Symposium	Oct. 2019

Teaching

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	

Skills

Advanced knowledge of `python` programming
Proficient in `C`, `C++`, `stan`, `HTML`, `CSS`, and `Bash` programming
Extensive experience with cluster computing