

# 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 .....
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, 6, 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
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### *Princeton University*

Centennial Fellowship	Spring 2022
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### *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
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## 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	

## Student Mentorship

Harper Learmonth—University of Chicago undergraduate	Summer 2022
Project: <i>inferring the joint mass-radius-period distribution of the K2 sample with hierarchical Bayesian mixture models</i>	

## Skills

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