

Wolf Cukier

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EDUCATION	University of Chicago , Chicago, Illinois, USA PhD Student, Department of Astronomy and Astrophysics	Sep 2024 – Present
	Princeton University , Princeton, New Jersey, USA AB in Astrophysical Sciences. May 2024. <i>Summa Cum Laude</i> Certificates in Applied and Computational Mathematics, Applications of Computing, and Planets and Life	Aug 2020 – May 2024
PUBLICATIONS	<ol style="list-style-type: none">[1] W. Cukier and T. Daylan, “Dynamical stability of double planets in multiplanetary systems,” <i>in prep.</i>[2] W. Cukier and J. Szalay, “Formation, Structure, and Detectability of the Geminids Meteoroid Stream,” <i>PSJ</i> 4:109, 2023. https://doi.org/10.3847/PSJ/acd538[3] V. Kostov, J. Orosz, A. Feinstein, W. Welsh, W. Cukier et al., “TOI-1338: TESS’ First Transiting Circumbinary Planet,” <i>AJ</i> 159:253, 2020. https://doi.org/10.3847/1538-3881/ab8a48[4] W. Cukier et al., “Habitable Zone Boundaries for Circumbinary Planets,” <i>PASP</i> 131:124402, 2019. https://doi.org/10.1088/1538-3873/ab50cb	
RESEARCH EXPERIENCE	Graduate Student University of Chicago, Department of Astronomy and Astrophysics	Sep 2024 – Present
	Undergraduate Researcher Princeton University, Department of Astrophysical Sciences	Jun 2021 – May 2024
	NASA Summer Intern NASA Goddard Space Flight Center, Science Mission Directorate	Jun 2018 – Aug 2019
TALKS & POSTERS	<ul style="list-style-type: none">▪ <i>Natural Transport of Microbes from Early Venus to Archean Earth</i> Contributed Talk, Planets and Life Certificate Symposium, Princeton University▪ <i>Stellar Systems Far and Near: Finding Tautooine-like Planets and Determining the Origins of the Geminids Meteor Shower</i> Invited Talk, Astronomical Society of Kansas City▪ <i>Dynamical Stability of Binary Planets in Compact Multi-Planetary Systems</i> Contributed Talk, Applied and Computational Mathematics Certificate Symposium, Princeton University▪ <i>Reflection Spectra, Albedos, and Phase Curves from a δ-Spherical Harmonics Mie Scattering Model</i> Contributed Poster, AAS 243 Winter▪ <i>Albedos and Phase Curves for Arbitrary Scattering in Semi-Infinite Atmospheres</i> Contributed Talk, Astrophysics Summer Research Symposium, Princeton University▪ <i>Formation, Structure, and Detectability of the Geminids Meteoroid Stream</i> Invited Talk, Parker Solar Probe SWG Telecon▪ <i>Polarized Raytracing of Black Hole Mangetospheres</i> Contributed Talk, TICUP/PSPS/NSBP JP Symposium, Princeton University▪ <i>Formation, Structure, and Detectability of the Geminids Meteoroid Stream</i> Invited Talk, Princeton&IAS Bahcall Lunch, Princeton University▪ <i>Formation, Structure, and Detectability of the Geminids Meteoroid Stream</i> Contributed Poster, AAS 241 Winter▪ <i>Polarized Raytracing of Black Hole Mangetospheres</i> Contributed Talk, Astrophysics Summer Research Symposium, Princeton University	May 2024 May 2024 Apr 2024 Jan 2024 Jul 2023 Jul 2023 Mar 2023 Feb 2023 Jan 2023 Jul 2022
AWARDS & HONORS	<ul style="list-style-type: none">▪ NSF GRFP Honorable Mention▪ Chambliss Astronomy Achievement Student Award Honorable Mention	Apr 2024 Jan 2023
TEACHING EXPERIENCE	<ul style="list-style-type: none">▪ ASTR 12700 Stars, TA, UChicago	Sep 2024–Dec 2024

- PHY 105 (Mechanics) / PHY 106 (E&M) Tutor, Princeton University Sep 2021–May 2022
 - COS 217 (Systems) / COS 226 (Algorithms) Grader, Princeton University Sep 2021–May 2022
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**CAMPUS
ACTIVITIES**

Service and Outreach

- Princeton Astrophysics Climate Committee – *Undergrad Representative* Sep 2023 – May 2024
- Princeton Astrophysics LGBTQ+ Affinity Group – *Co-Lead* Mar 2023 – May 2024
- Princeton Astronomy Club – *Treasurer* Sep 2022 – Jan 2024
- Princeton University Science Olympiad – *Event Supervisor* Sep 2020 – Apr 2023

PROGRAMMING

Python, Julia, C, Java, ARM64, Unix Shell, LSF Clusters, HPC Clusters
numpy, pyplot, rebound, matplotlib

**SELECTED
MEDIA
APPEARANCES**

- [A violent collision likely created the Geminids meteor shower](#). CNN, 2023.
- [Discovery of TESS Mission’s First Circumbinary Planet](#). Centauri Dreams, 2020.
- [A teenager discovered a new planet on the third day of his NASA internship](#). Washington Post, 2020.
- [NASA Intern Discovers New Planet](#). NPR, 2020.

[CV compiled on 2024-10-12]