Wolf Cukier wcukier@princeton.edu +1 (914) 525-2614

EDUCATION

Princeton University, Princeton, NJ **Class of 2024**

A.B, Astrophysical Sciences
Certificates: Planets and Life, Applications of Computing, Applied and Computational Mathematics
GPA: 3.9
Select Coursework by Summer 2022: Classical Mechanics, Quantum Mechanics, E+M, Algorithms, Computer Systems, Cosmology, ODEs, Complex + Functional Analysis

PUBLICATIONS

TOI-1338: TESS' First Transiting Circumbinary Planet

Veselin B. Kostov, Jerome A. Orosz, Adina D. Feinstein, William F. Welsh, **Wolf Cukier**, et al., Astrophysical Journal, 159, 253 (2020). arXiv:1911.02983

Habitable Zone Boundaries for Circumbinary Planets

Wolf Cukier, Ravi kumar Kopparapu, Stephen R. Kane, William Welsh, Eric Wolf, Veselin Kostov and Jacob Haqq-Misra, Publications of the Astronomical Society of the Pacific, 131, 124402 (2019). arXiv:2004.07783

RESEARCH EXPERIENCE

Princeton University, Princeton, NJ

Undergraduate Researcher, Advisor: Jamey Szalay **Jun 2021 - Present**

- Created a model of the Geminids Meteoroid Stream
- Compared model output with PSP and DESTINY+ spacecraft
- Paper in preparation

Junior Paper, Advisor: Chris Chyba **Beginning Jan 2022**

- Estimating Chances of Microbial Transfer via Meteorites Between Early Venus and Earth

NASA Goddard Space Flight Center, Greenbelt, MD **Jun - Aug 2019, Jul 2018**

Research Intern, Advisors: Ravi Kopparapu, Veselin Kostov

- Examined TESS lightcurves looking for transits of circumbinary planets
- Performed preliminary data validation for suspected transits
- Updated climate model to perform habitability calculations for circumbinary planets

OTHER WORK EXPERIENCE

Princeton University, Princeton, NJ **Sept 2021 - Present**

Tutor: General Physics I, Advanced Physics (Mechanics)
Grader: Algorithms and Data Structures

PUBLICITY

Kostov et al. 2020

Washington Post: *"Teen Found First Planet With Two Stars"* Jan 10. 2020.
Also reported by: New York Times, NPR, BBC, CNN, and many others

Programming Languages: C, Java, Python, ARM64