

Ben Cassese

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EDUCATION

Ph.D. (in progress) , Astronomy, Columbia University	2021-
M.Phil. (in progress) , Astronomy, Columbia University	2021-
M.A. (in progress) , Astronomy, Columbia University	2021-
B.S. Planetary Science and History, California Institute of Technology	2016-2020
History Thesis: <i>No Special Genius: Modern Federal Litigation of Partisan Gerrymandering</i>	

PUBLICATIONS

As First Author:

1. (In review) **Cassese, B.** & Kipping, D. (2022) “[Kepler-1708 b-i is likely undetectable with HST](#)”, *Monthly Notices of the Royal Astronomical Society*, **XXX**, **XXX**

CONFERENCE TALKS

- Cassese, B.** & Kipping, D. (2022), “[Detectability of Galilean Moon Analogs with JWST](#)”, Exoplanets IV, Las Vegas, NV, 105.01
- Cassese, B.** & Stevenson, D. (2018) “[Feasibility of in-situ water production during fast-accreting super-earth formation](#)”, 50th AAS DPS Meeting, Knoxville, TN, 101.01

AWARDS

Fritz B. Burns Prize, Division of Geological and Planetary Sciences, Caltech	2019
Beckman Political Science Award, California Institute of Technology	2019
Perpall Speaking Competition Winner, California Institute of Technology	2019
Gee Family Poster Competition Winner, California Institute of Technology	2018
George W. Housner Student Discovery Fund, California Institute of Technology	2018
Perpall Speaking Competition Finalist, California Institute of Technology	2018

TEACHING

As Instructor:

ASTR 1904: Astronomy Lab II, Columbia	Fall 2022
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As Teaching Assistant:

ASTR 1610: Theories of the Universe, from Babylon to Big Bang, Columbia	Spring 2022
ASTR 1404: Stars, Galaxies, and Cosmology, Columbia	Fall 2021
Ge/Ay 103: Introduction to Planetary Science, Caltech (4.89/5 review)	Spring 2020
Ge 1: Earth and Environment, Caltech (4.9/5 review)	Spring 2018

Training:

Teaching Development Program Foundational Track Columbia Center for Teaching and Learning	2021-2022
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TELESCOPE TIME

As PI:

MDM Hiltner 2.4m Telescope:

Cassese, B. 2022b, “Attempted Recovery of a Distant Trans-Neptunian Object”, 5 nights

As Co-I:

MDM McGraw-Hill 1.3m Telescope:

Yahalomi, D., **Cassese, B.**, Sayeed, M., Hattori, & S. 2022b, “Photometric Confirmation and Ephemeris Refinement of TESS Planet Candidates”, 5 nights

CHEOPS Mission:

Edwards, B., **Cassese, B.**, & 3 others. 2022 DDT, “Catching the Transit of a Long Period Planet to Support Future Atmospheric Characterization”, 14 orbits

PROFESSIONAL ENGAGEMENT

Author, Astrobites Collaboration	2022-2024
Lloyd V. Berkner Space Policy Intern, National Academy of Science	2019
<i>Staff member on the Astro2020 Decadal Survey</i>	
AAS Division of Planetary Science Federal Relations Subcommittee, Undergraduate Member	2018-2020

SCIENCE COMMUNICATION

With Astrobites:

[Star light, lamp bright](#) (5/2022)

[Teamwork Across Timezones: The Transit of TOI-2180 b](#) (4/2022)

[The bigger they are, the smaller their moons?](#) (2/2022)

OUTREACH

Mentor, Independent Inquiry Project, Inspired Teaching Demonstration School	2021-2022
<i>Mentored an 8th grade project on exoplanets</i>	

OTHER PRESENTATIONS

At Home Institution:

Columbia Astro “Friends of the Department” Meeting, Columbia Astronomy Dept.	Jun. 2022
Pizza Lunch, Columbia Astronomy Dept.	Nov. 2021
Small Council Donors Meeting, Cool Worlds Lab	Nov. 2021

At Other Institutions:

GothamFest, Flatiron Institute Center for Computational Astrophysics	Dec. 2021
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