

# CV - DOLEV BASHI

Astrophysics group | Cavendish Laboratory | Cambridge University, UK

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@dolevbas



@BashiDolev

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## Research Interests

Exoplanets, Binary stars & compact objects, Galactic archaeology, Space exploration, Nanosatellites

## Academic Positions

<b>Blavatnik Cambridge Fellow</b> ; Advisor: Didier Queloz Astrophysics group, Cavendish Laboratory, Cambridge University	2023-Present
<b>Research associate</b> ; Advisor: Tsevi Mazeh School of Physics and Astronomy, Tel-Aviv University	2021 - 2023

## Education

<b>Ph.D.:</b> School of Geosciences, Tel-Aviv University; Advisor: Shay Zucke	2017 - 2022
<b>M.Sc.</b> (summa cum laude): Department of Geophysics & Planetary Sciences, Tel Aviv University; Advisors: Ravit Helled, Shay Zucker	2015 - 2017
<b>B.Sc.:</b> School of Physics and Astronomy, Tel Aviv University	2008 - 2011

## Refereed Publications

First-author publications: 10

Total publications: 25, full list at [ADS](#)

## Employment

System engineer, Nanosatellites and space science center, Tel-Aviv University	2018 - 2023
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## Space based projects

TAUSAT-2: <u>system-engineer and integrator</u> of a 2U CubeSat aimed for a demonstration of novel communication protocol + LED experiment to be observed from the ground.	2021-2023
TAU COTS-Capsule: an <u>integrator</u> of a radiation payload experiment sent to the ISS.	2021-2022
TEVEL-1: <u>mentoring</u> eight high-school groups developing a 1U CubeSat, including retroreflector payloads.	2020-2024
TAUSAT-1: <u>system-engineer and integrator</u> of a 3U CubeSat (TAU first nanosatellite), including a radiation and space weather dedicated payload.	2019-2022

## Talks and Posters

<u>Poster</u> : Different Planetary Eccentricity-period (PEP) Distributions of Small and Giant Planets (Exoplanets V, Leiden)	Jun 2024
<u>Talk</u> : Nanosatellites and the New Space revolution, Hills seminar series, Cambridge University, UK	Feb 2024
<u>Talk</u> : Exoplanets in the Galactic Context, ExoCam seminar, Cambridge University, UK	Nov 2023
<u>Talk</u> : Tidal circularization of main-sequence stars	Nov 2023
<u>Poster</u> : Searching for Exoplanets in Halo Stars (Blavatnik Cambridge Fellowships Reception, House of Lords, London, UK)	Mar 2023
<u>Talk</u> : Tidal circularization of main-sequence stars (Wise 50, Mitzpe-Ramon, Israel)	Mar 2023
<u>Talk</u> : Gaia Spectroscopic Orbits Validation with external Radial Velocity Surveys (MW-Gaia WG2/1 Workshop, Naples)	Sep 2022
<u>Talk</u> : Exoplanets in the Galactic context: Planet occurrence rates in the thin disk, thick disk, and stellar halo of Kepler stars (Weizmann Institute of Science)	Jan 2022
<u>Poster</u> : Quantifying the similarity of planetary system architectures (TESS Science Conference II - virtual)	Aug 2021
<u>Talk</u> : Nanosatellites and the new space revolution (Technion, Haifa - virtual)	Feb 2021
<u>Poster</u> : Occurrence rates of small planets from HARPS: Focus on the Galactic context (Exoplanets III, Heidelberg - virtual)	Aug 2020
<u>Talk</u> : Small Planets in the galactic context- the era of <i>Gaia</i> (MW-Gaia WG3 Workshop, Porto)	Nov 2019
<u>Talk</u> : Small Planets in the galactic context (The Hebrew University of Jerusalem)	Jun 2019
<u>Talk</u> : Two empirical regimes of the planetary mass-radius relation (the University of Zurich, University of Bern)	Apr 2018

## Observing Experience

LCO 10h using NRES	2022A
LCO 10h using NRES	2021B

## Scholarships and Honors

Blavatnik Cambridge Fellowship	2023
The Akiva Bar-Nun scholarship for excellence	2019
Dean's scholarship for academic excellence	2017

### Reviewer for Journals

Astronomy & Astrophysics (A&A)

Monthly Notices of the Royal Astronomical Society (MNRAS)

### MENTORING

Part III projects (2 X M.Sc. students), Cambridge University

2023-2024

### Teaching

Teaching assistance Space Engineering course, Tel-Aviv University

2022

### Outreach

Teaching coding and programming to a joint group of American and Israeli high-school students as part of the America-Israel Friendship League (AIFL)

Mentor of TEVEL ('students building satellites' - in Hebrew) project

Lecturing astronomy to school students of all ages

### Others

Committee member of the ExoCam (Cambridge university Exoplanet seminar series)

Amateur radio licenses 4X5RF