

# DOLEV BASHI

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## Research Interests

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

## Education & Appointments

Research associate: School of Physics and Astronomy, Tel-Aviv University (working with Prof. Tsevi Mazeh)	2022 - present
Ph.D.: School of Geosciences, Tel-Aviv University (Advisor: Prof. Shay Zucker)	2017 - Q2 2022
M.Sc. (summa cum laude): Department of Geophysics & Planetary Sciences, Tel Aviv University (Advisors: Prof. Ravit Helled, Prof. Shay Zucker)	2015 - 2017
B.Sc.: School of Physics and Astronomy, Tel Aviv University	2008 - 2011

## Refereed publications

Total: 8 (+ 3 submitted), full list at [ADS](#)  
First-author publications: 6 (+ 1 submitted)  
Second- or third-author publications: 2 (+ 1 submitted)

## Employment

System engineer, Nanosatellites and space science center, Tel-Aviv University	2018 - present
Military Service, unit 81 (IDF Intelligence Technological unit), team-leader, rank: Captain	2011 - 2017

## 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 ground	2021-present
TAU COTS-Capsule: <u>integrator</u> of a radiation payload experiment sent to the ISS	2021-present (in space)
TEVEL: <u>mentoring</u> eight high-school groups developing a 1U CubeSat including retroreflector payloads	2020-present (in space)
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>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
	Aug 2021

<u>Poster</u> : Quantifying the similarity of planetary system architectures (TESS Science Conference II - virtual)	Feb 2021
<u>Talk</u> : Nanosatellites and the new space revolution (Technion, Haifa - virtual)	Aug 2020
<u>Poster</u> : Occurrence rates of small planets from HARPS: Focus on the Galactic context (Exoplanets III, Heidelberg - virtual)	Nov 2019
<u>Talk</u> : Small Planets in the galactic context- the era of Gaia, (Porto MW-Gaia WG3 Workshop)	Jun 2019
<u>Talk</u> : Small Planets in the galactic context (The Hebrew University of Jerusalem)	Apr 2018
<u>Talk</u> : Two empirical regimes of the planetary mass-radius relation (University of Zurich, University of Bern)	

### Observing Experience

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

### Scholarships and Honors

The Akiva Bar-Nun scholarship for excellence	2019
Dean's scholarship for academic excellence	2017

### 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 at all ages