

# CURRICULUM VITAE – DOLEV BASHI

Last update: 25-Nov-21

## Contact Information

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## Research Interests

Extrasolar planets in the Galactic context, Planetary system architectures, Space exploration & nanosatellites

## Education

Ph.D.: School of Geosciences, Tel-Aviv University (Advisor: Prof. Shay Zucker) 2017 – Q1 2022 (expected)  
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

[1] **Bashi, D.**, and Zucker, S.: Exoplanets in the Galactic context: Planet occurrence rates in the thin disk, thick disk, and stellar halo of Kepler stars 2021, MNRAS, Submitted  
[2] **Bashi, D.**, and Zucker, S.: Quantifying the similarity of planetary system architectures [2021, A&A, 651, A61](#)  
[3] **Bashi, D.**, Zucker, S., Adibekyan, V., Santos, N. C., Tal-Or, L., Trifonov, T., and Mazeh, T.: Occurrence rates of small planets form HARPS: Focus on the Galactic context [2020, A&A, 643, A106](#)  
[4] **Bashi, D.**, and Zucker, S.: Small planets in the Galactic context: host star kinematics, iron and  $\alpha$  elements Enhancement [2019, AJ, 158, 2](#)  
[5] **Bashi, D.**, Helled, R., and Zucker, S.: A Quantitative Comparison of Exoplanet Catalogs [2018, Geoscience, 8, 325](#)  
[6] **Bashi, D.**, Helled, R., Zucker, S., and Mordasini, C.: Two Empirical Regimes of the Planetary Mass-Radius Relation [2017, A&A, 604, A83](#)

## 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: system-engineer and integrator of a 2U CubeSat aimed for a demonstration of novel communication protocol + LED experiment to be observed from ground 2021-present  
COTS-Capsule: integrator of a radiation payload experiment sent to the ISS 2021-present (waiting for launch)

TEVEL: <u>mentor</u> of eight high-school groups developing a 1U CubeSat including retrorreflector payloads	2020-present (waiting for launch)
TAUSAT-1: <u>system-engineer and integrator</u> of a 3U CubeSat including a radiation and space weather dedicated payload	2019-present (in space)

## Talks and Posters

<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 Gaia, (Porto MW-Gaia WG3 Workshop)	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 (University of Zurich, University of Bern)	Apr 2018

## Observing Experience

Subaru Telescope 2h using HDS (service mode)	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

Teach coding and programming as part of the America-Israel Friendship League (AIFL)	2021- present
Mentor of TEVEL (students building satellites) project	2020
Lecturing astronomy to school students at all ages	