

CURRICULUM VITAE – DOLEV BASHI

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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 α 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

Teaching coding and programming to a joint group of American and Israeli high-school students 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	