

CURRICULUM VITAE – DOLEV BASHI

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Contact Information

dolevbashi@gmail.com
<https://dolevbas.github.io/>
Twitter: [@BashiDolev](https://twitter.com/BashiDolev)

School of Geosciences, Faculty of Exact Sciences, Tel Aviv University,
Tel Aviv, 6997801, Israel

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 [2022,MNRAS,510,3449](#)
- [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 (in space)

TEVEL: <u>mentor</u> of eight high-school groups developing a 1U CubeSat including retrorreflector payloads	2020-present (in space)
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TAUSAT-1: <u>system-engineer and integrator</u> of a 3U CubeSat including a radiation and space weather dedicated payload	2019-present (in space)
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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)	Dec 2021
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<u>Poster</u> : Quantifying the similarity of planetary system architectures (TESS Science Conference II - virtual)	Aug 2021
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<u>Talk</u> : Nanosatellites and the new space revolution (Technion, Haifa - virtual)	Feb 2021
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<u>Poster</u> : Occurrence rates of small planets from HARPS: Focus on the Galactic context (Exoplanets III, Heidelberg - virtual)	Aug 2020
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<u>Talk</u> : Small Planets in the galactic context- the era of Gaia, (Porto MW-Gaia WG3 Workshop)	Nov 2019
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<u>Talk</u> : Small Planets in the galactic context (The Hebrew University of Jerusalem)	Jun 2019
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<u>Talk</u> : Two empirical regimes of the planetary mass-radius relation (University of Zurich, University of Bern)	Apr 2018
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Observing Experience

LCO 10h using NRES	2022A
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LCO 10h using NRES	2021B
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Scholarships and Honors

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

Lecturing astronomy to school students at all ages