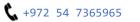
CV - DOLEV BASHI

School of physics and astronomy | Faculty of Exact Sciences | Tel Aviv University 6997801, Israel





dolevbashi@gmail.com @dolevbas 🔰 @BashiDolev





Personal website: https://dolevbas.github.io/ | Last update: 21-Nov-22

Research Interests

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

Education & Appointments

Research associate: School of Physics and Astronomy, Tel-Aviv	2022 - present
University (working with Prof. Tsevi Mazeh)	2022 - present
Ph.D.: School of Geosciences, Tel-Aviv University (Advisor: Prof.	2017 - 02 2022
Shay Zucker)	2017 QZ 2022
M.Sc. (summa cum laude): Department of Geophysics & Planetary	
Sciences, Tel Aviv University (Advisors: Prof. Ravit Helled, Prof.	2015 - 2017
Shay Zucker)	
B.Sc.: School of Physics and Astronomy, Tel Aviv University	2008 - 2011

Refereed Publications

First-author publications:	
[1] Bashi, D. , Shahaf, S., Mazeh, T., Faigler, S., Dong, S., El-Badry, K., Rix, H. W., Jorissen, A: Gaia Spectroscopic orbits validated with LAMOST and GALAH radial velocities	2022, MNRAS, 517, 3888
[2] Bashi, D., and Zucker, S.: Exoplanets in the Galactic context:	2022, MNRAS, 510, 3449
Planet occurrence rates in the thin disk, thick disk, and stellar	
halo of Kepler stars	
[3] Bashi, D., and Zucker, S.: Quantifying the similarity of	2021,A&A,651,A61
planetary system architectures	
[4] Bashi, D., Zucker, S., Adibekyan, V., Santos, N. C., Tal-Or, L.,	2020,A&A,643,A106
Trifonov, T., and Mazeh, T.: Occurrence rates of small planets form	
HARPS: Focus on the Galactic context	
[5] Bashi, D., and Zucker, S.: Small planets in the Galactic context:	<u>2019,AJ,158,2</u>
host star kinematics, iron and $\boldsymbol{\alpha}$ elements Enhancement	
[6] Bashi, D., Helled, R., and Zucker, S.: A Quantitative Comparison	2018, Geoscience, 8, 325
of Exoplanet Catalogs	
[7] Bashi, D., Helled, R., Zucker, S., and Mordasini, C.: Two	2017,A&A,604,A83

Empirical Regimes of the Planetary Mass-Radius Relation

Second- or third-author publications:

[8] Shahaf, S., Bashi, D. , Mazeh, T., Faigler, S., Arenou, F., El-Badry, K., Rix, H.: Triage of the Gaia astrometric orbits. I. A sample of binaries with probable compact companions	2022, MNRAS, accepted
[9] Mazeh, T., Faigler, S., Bashi, D. et al.: Probable Dormant Neutron Star in a Short-Period Binary System	2022, MNRAS, 517, 4005
Additional publications:	
[10] El-Badry, K. et al.: A Sun-like star orbiting a black hole	2022, MNRAS, accepted
[11] Eyer, L. et al.: Gaia Data Release 3. Summary of the variability processing and analysis	2022,A&A,accepted
[12] Gomel, R.; Mazeh, T.; Faigler, S.; Bashi, D. et al.: Gaia Data Release 3: Ellipsoidal Variables with Possible Black-Hole or Neutron Star secondaries	2022,A&A,accepted
<u>Employment</u>	
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	2021-present
demonstration of novel communication protocol + LED experiment to be	
observed from the ground	
TAU COTS-Capsule: an <u>integrator</u> of a radiation payload experiment sent	2021-2022
to the ISS	
TEVEL: mentoring eight high-school groups developing a 1U CubeSat,	2020-present (in space)
including retroreflector payloads	
TAUSAT-1: system-engineer and integrator of a 3U CubeSat (TAU first nanosatellite), including a radiation and space weather dedicated payload	2019-2022
<u>Talks and Posters</u>	
Talk: Gaia Spectroscopic Orbits Validation with external Radial	Sep 2022
Velocity Surveys (MW- <i>Gaia</i> WG2/1 Workshop, Naples)	
Talk: Exoplanets in the Galactic context: Planet occurrence rates in	Jan 2022
the thin disk, thick disk, and stellar halo of Kepler stars (Weizmann	Juli 2022
Institute of Science)	
<u>Poster</u> : Quantifying the similarity of planetary system architectures	Aug 2021
(TESS Science Conference II - virtual)	
$\underline{Talk} \colon Nanosatellites$ and the new space revolution (Technion, Haifa -	Feb 2021
virtual)	

Poster: Occurrence rates of small planets from HARPS: Focus on the	Aug 2020
Galactic context (Exoplanets III, Heidelberg - virtual)	
Talk: Small Planets in the galactic context- the era of Gaia (MW-Gaia	Nov 2019
WG3 Workshop, Porto)	
Talk: Small Planets in the galactic context (The Hebrew University of	Jun 2019
Jerusalem)	
\underline{Talk} : Two empirical regimes of the planetary mass-radius relation (the	Apr 2018
University of Zurich, University of Bern)	
Observing Experience	
LCO 10h using NRES	2022A
LCO 10h using NRES	2021B
<u>Scholarships</u> and <u>Honors</u>	2019
The Akiva Bar-Nun scholarship for excellence	2017
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 of all ages