

Haggai Maron

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## Personal Statement

I am an Assistant Professor at the Technion's Faculty of Electrical and Computer Engineering. My research focuses on deep learning for structured data, particularly sets, graphs, point clouds, surfaces and other data with inherent symmetry structures. My work combines theoretical analysis and design of deep learning architectures with practical applications to real-world problems. My research resulted in 51 publications in top conferences and journals, garnering 5,782 citations (h-index: 27) and earning recognition through awards including the Outstanding Paper Award at ICML 2020, Best Paper Awards at ICML and NeurIPS workshops in 2024, and the Alon scholarship for the integration of outstanding faculty (Israel Council for Higher Education) also in 2024.

## Academic positions

2023-	<b>Assistant Professor, The Robert J. Shillman Fellow,</b> Faculty of Electrical and Computer Engineering, Technion, Israel.
2019-2023	<b>Senior Research Scientist</b> NVIDIA Research

## Education

2015-2019	<b>Ph.D., Computer Science and Mathematics</b> , Weizmann Institute of Science. Thesis title: "Deep and Convex Shape Analysis". Supervisor: Prof. Yaron Lipman.
2012-2014	<b>MSc, Computer Science and Mathematics</b> , Weizmann Institute of Science. Thesis title: "A Passive 8D Display: Light and Viewpoint Sensitive Display of 3D Content". Final grade: 97/100. Supervisor: Prof. Anat Levin.
2008-2011	<b>BSc, Computer Science and Mathematics</b> , The Hebrew University of Jerusalem. GPA: 96/100.

## Honors and awards

2024	Best paper award, Workshop on Symmetry and Geometry in Neural Representations, NeurIPS 2024.
2024	Alon scholarship for the integration of outstanding faculty (Israel Council for Higher Education).
2024	Best paper award, Workshop on High-dimensional Learning Dynamics, ICML 2024.

2023	The Robert J. Shillman Career Advancement Chair, Technion.
2020	Outstanding Paper award, ICML 2020.
2020	The Giora Yoel Yashinski Memorial Prize in recognition of academic excellence and scientific accomplishments during Ph.D. studies, Feinberg Graduate School.
2019	Participant in the SIGGRAPH 2019 Doctoral Consortium.
2015	The Feinberg Graduate School Dean's prize in recognition of academic excellence and scientific accomplishments.

### Professional activities

- Serves as a steering committee member and program chair, "Weight Space as New Modality" workshop, ICLR 2025.
- Co-organizer of the "Graph Learning Meets Theoretical Computer Science" workshop at the Simons Institute (<https://simons.berkeley.edu/workshops/graph-learning-meets-theoretical-computer-science> )
- I serve as an area chair for NeurIPS (2023,2024), ICML (2025), Learning on Graphs (LoG) (2022, 2023, 2024).
- Grant reviewer for ERC, ISF, NSF-BSF.
- I served as a reviewer for NeurIPS, ICML, ICLR and other top conferences and journals.
- I initiated and co-organized the Israeli Workshop on Geometric Deep Learning, IGD (2020, 2021,2024) (<https://gd-israel.github.io/>).

### Grants

- [1] Alon scholarship grant (2024), Israel Council for Higher Education. ~50k USD.
- [2] "Expressive, Efficient, and Domain-Agnostic Graph Learning with Subgraph-based Networks", (2023-2026), Israel Science Foundation (ISF) personal research grant no. 264/23. ~225K USD.
- [3] New faculty equipment grant (2023), Israel Science Foundation (ISF) no. 532/23. ~265K USD.

### Group and past students

Postdocs: Dr Fabrizio Frasca (2024-today)

Current Phd students: Yam Eitan (2024 - today), Guy Bar-Shalom (2023 - today, joint supervision with Ran El-Yaniv), Matan Ostrovsky (2023 - today), Yoav Gelberg (2024-today, joint supervision with Michael Bronstein).

MSc students: Ofir Haim (2023-2024, joint supervision with Shie Mannor), Ran Elbaz (2023-today), Yaniv Galron (2023-today, joint supervision with Eran Treister), Edan Kinderman (2023-2024, joint supervision with Daniel Soudry), Yuval Aidan (2023-2024, joint supervision with Ayellet Tal).

Past PhD student mentorship: Fabrizio Frasca (Imperial college, PhD, 2021-2023), Derek Lim (MIT, PhD, 2021-today), Beatrice Bevilacqua (Purdue, PhD, 2021-2024).