Guy Bar-Shalom

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🌐 https://barsguy.github.io/
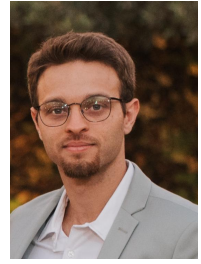
Education

2022 – 2026 — **PhD Computer Science.**
Technion - Israel Institute of Technology.
Advisors Prof. Ran El-Yaniv, and Prof. Haggai Maron.
Graph Neural Networks.

2020 – 2022 — **MSc Computer Science.**
Advisor Prof. Ran El-Yaniv.
Technion - Israel Institute of Technology.
Uncertainty Estimation in Deep Learning Models.

2016 – 2020 — **BSc Computer science and Physics.**
Technion - Israel Institute of Technology.

Employment History

2023 — **Google-Verily.**
Research Intern
Video analysis (published at WACV)

2018 – present — **Teaching assistant (Technion).**
Algorithms 1.
Partial differential equations and Fourier series.
Introduction to Computer Science - C.

Selected publications (* indicates equal contribution)

2024 — A Flexible, Equivariant Framework for Subgraph GNNs via Graph Products and Graph Coarsening
Guy Bar-Shalom*, Yam Eitan*, Fabrizio Frasca, Haggai Maron
(NeurIPS 2024)

Subgraphormer: Unifying Subgraph GNNs and Graph Transformers via Graph Products
Guy Bar-Shalom, Beatrice Bevilacqua, Haggai Maron
(ICML 2024)

Weakly-supervised Representation Learning for Video Alignment and Analysis
Guy Bar-Shalom, George Leifman, Michael Elad
(WACV 2024)

2023 — Window-Based Distribution Shift Detection for Deep Neural Networks
Guy Bar-Shalom, Yonatan Geifman, Ran El-Yaniv
(NeurIPS 2023)

Subgraphormer: Subgraph GNNs meet Graph Transformers
Guy Bar-Shalom, Beatrice Bevilacqua, Haggai Maron
(NeurIPS 2023 Workshop: New Frontiers in Graph Learning)

Selected publications (* indicates equal contribution) (continued)

2022   📕 TransBoost: Improving the Best ImageNet Performance using Deep Transduction
Omer Belhasin*, **Guy Bar-Shalom***, Ran El-Yaniv
(NeurIPS 2022)

Awards

2024   📕 VATAT Prize for Academic Excellence, Technion

2018 – present   📕 Teaching Assistant Excellence award (4 times).

Professional service

2024   📕 Organizer of iGDL: Israeli Geometric Deep Learning workshop

2022-present   📕 Reviewer at NeurIPS, ICML, ICLR

Teaching experience

2018 – present   📕 Teaching Assistant at the Technion (department of Mathematics)
Course: *Partial Differential Equations and Fourier Series*
Average teaching score: 4.5/5.

2021 – present   📕 Teaching Assistant at the Technion (department of Computer Science)
Course: *Algorithms 1*
Average teaching score: 4.6/5.

2021   📕 Teaching Assistant at the Technion (department of Computer Science)
Course: *Introduction to Computer Science*
Average teaching score: 4.4/5.

Other

2012   📕 Played in the NCAA basketball league (USA), at Mercyhurst University (Erie, PA)

2012 – present   📕 Semi-pro basketball player in Israel

2013-2016   📕 Israel Defense Forces (IDF), Staff Sergeant