Dan Haramati

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PhD candidate at Brown University studying generalization and transfer in sequential decision-making.

Education

Brown University — **Sep 2024 - May 2028 (anticipated)**
PhD in Computer Science
- Advised by Prof. **George Konidaris**

Technion - Israel Institute of Technology — **Oct 2022 - Aug 2024**
M.Sc. in Electrical and Computer Engineering – Summa Cum Laude — *GPA: 96.8/100*
- Advised by Prof. **Aviv Tamar**
- Thesis: *"Entity-Centric Reinforcement Learning for Object Manipulation from Pixels"*
- Supported by the Kenneth and Gloria Levy Excellence Scholarship

Technion - Israel Institute of Technology — **Oct 2017 - Mar 2022**
B.Sc. in Electrical Engineering and Physics — *GPA: 90.5/100*
- Supported by the Alfred and Anna Grey Excellence Scholarship

Publications

Hierarchical Entity-centric Reinforcement Learning with Factored Subgoal Diffusion
Dan Haramati, Carl Qi, Tal Daniel, Amy Zhang, Aviv Tamar, George Konidaris.
The Fourteenth International Conference on Learning Representations (ICLR 2026)
World Modeling Workshop at Mila 2026 Oral (top 7%)

Latent Particle World Models: Self-supervised Object-centric Stochastic Dynamics Modeling
Tal Daniel, Carl Qi, Dan Haramati, Amir Zadeh, Chuan Li, Aviv Tamar, Deepak Pathak, David Held.
The Fourteenth International Conference on Learning Representations (ICLR 2026) Oral
World Modeling Workshop at Mila 2026 Oral (top 7%)

EC-Diffuser: Multi-Object Manipulation via Entity-centric Behavior Generation
Carl Qi, Dan Haramati, Tal Daniel, Aviv Tamar, Amy Zhang.
The Thirteenth International Conference on Learning Representations (ICLR 2025)

Entity-centric Reinforcement Learning for Object Manipulation from Pixels
Dan Haramati, Tal Daniel, Aviv Tamar.
The Twelfth International Conference on Learning Representations (ICLR 2024) Spotlight (top 5%)
GCRL Workshop at NeurIPS 2023 Spotlight Talk

Workshop Papers

Why and How Auxiliary Tasks Improve JEPA Representations
Jiacan Yu, Siyi Chen, Mingrui Liu, Nono Horiuchi, Vladimir Braverman, Zicheng Xu, Dan Haramati, Randall Balestriero.
UniReps Workshop at NeurIPS 2025

Object-centric Generative Modeling for Decision Making with Deep Latent Particles
Tal Daniel*, Dan Haramati*, Aviv Tamar.
GenAI4DM Workshop at ICLR 2024 (* indicates equal contribution)

Professional Experience

RL^2 Lab, Technion — **Jun 2022 – Sep 2022**
Deep Reinforcement Learning and Robotics Research Internship
- Advised by Prof. **Aviv Tamar**
- Researched goal-conditioned exploration methods in a robotic object manipulation environment

Intel Corporation — **Nov 2020 – Mar 2022**
Core Logic Design Engineer — *Part-time*
- Hardware logic algorithm designer for the Intel Core
- Co-author of *"Priority Based Hardware Thread Selection – A High Performance Scalable Algorithm"*, DTTC 2022 (Intel Internal Conference)

Teaching

Unsupervised Learning and Data Analysis - Technion Course 046202   Oct 2022 – May 2024
Teaching Assistant to Prof. Ron Meir
- Advanced machine learning course (advanced undergraduate and graduate level)
- Wrote content and updated the course material on Variational Autoencoders and Graph Neural Networks

Honors and Awards

Kenneth and Gloria Levy Excellence Scholarship   *M.Sc. at Technion - Apr 2024*
Apple Excellence Award   *M.Sc. at Technion - Jan 2023*
Dean's Excellence Scholarship   *M.Sc. at Technion - Oct 2022*
Alfred and Anna Grey Excellence Scholarship   *B.Sc. at Technion - Oct 2017*

Academic Service

Reviewer
- ICLR 2025, 2026
- TMLR 2025

Volunteering

All Hands and Hearts (NGO)   **2015 - 2017**
Disaster Relief Volunteer   *Part-time*
- Volunteered in several disaster relief projects for rebuilding homes and public constructions in natural disaster struck areas: The Philippines Typhoon Relief, Nepal Earthquake Relief, Mexico Earthquake Relief, Peru Flood Relief.