

DAN HARAMATI

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

Education

Brown University

PhD in Computer Science

Sep 2024 - May 2028 (anticipated)

- Advised by Prof. **George Konidaris**

Technion - Israel Institute of Technology

M.Sc. in Electrical and Computer Engineering – Summa Cum Laude

Oct 2022 - Aug 2024

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

B.Sc. in Electrical Engineering and Physics

Oct 2017 - Mar 2022

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)

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 JEPAs 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

RL² 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.