

# 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)

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<sup>2</sup> 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

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### 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

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**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

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**Reviewer**

- ICLR 2025, 2026
- TMLR 2025

## Volunteering

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**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.