

DAN HARAMATI

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

Education

Brown University <i>PhD in Computer Science</i>	Sep 2024 - Present
Technion - Israel Institute of Technology <i>M.Sc. in Electrical and Computer Engineering – Summa Cum Laude</i>	Oct 2022 - Aug 2024 <i>GPA: 96.8/100</i>
<ul style="list-style-type: none">Advised by Prof. George KonidarisThesis: <i>"Entity-Centric Reinforcement Learning for Object Manipulation from Pixels"</i>Supported by the Kenneth and Gloria Levy Excellence Scholarship	

Technion - Israel Institute of Technology <i>B.Sc. in Electrical Engineering and Physics</i>	Oct 2017 - Mar 2022 <i>GPA: 90.5/100</i>
<ul style="list-style-type: none">Supported by the Alfred and Anna Grey Excellence Scholarship	

Publications

Hierarchical Entity-centric Reinforcement Learning with Factored Subgoal Diffusion <i>Dan Haramati, Carl Qi, Tal Daniel, Amy Zhang, Aviv Tamar, George Konidaris.</i> In submission
Latent Particle World Models: Self-supervised Object-centric Stochastic Dynamics Modeling <i>Tal Daniel, Carl Qi, Dan Haramati, Amir Zadeh, Chuan Li, Aviv Tamar, Deepak Pathak, David Held.</i> In submission
EC-Diffuser: Multi-Object Manipulation via Entity-centric Behavior Generation <i>Carl Qi, Dan Haramati, Tal Daniel, Aviv Tamar, Amy Zhang.</i> ICLR 2025
Entity-centric Reinforcement Learning for Object Manipulation from Pixels <i>Dan Haramati, Tal Daniel, Aviv Tamar.</i> ICLR 2024 - Spotlight (top 5%) GCRL Workshop at NeurIPS 2023 - Spotlight Talk

Workshop Papers

Why and How Auxiliary Tasks Improve JEPA Representations <i>Jiacan Yu, Siyi Chen, Mingrui Liu, Nono Horiuchi, Vladimir Braverman, Zicheng Xu, Dan Haramati, Randall Balestriero.</i> UniReps Workshop at NeurIPS 2025
Object-centric Generative Modeling for Decision Making with Deep Latent Particles <i>Tal Daniel*, Dan Haramati*, Aviv Tamar.</i> GenAI4DM Workshop at ICLR 2024 (* indicates equal contribution)

Professional Experience

RL² Lab, Technion <i>Deep Reinforcement Learning and Robotics Research Internship</i>	Jun 2022 – Sep 2022
<ul style="list-style-type: none">Advised by Prof. Aviv TamarResearched goal-conditioned exploration methods in a robotic object manipulation environment	
Intel Corporation <i>Core Logic Design Engineer</i>	Nov 2020 – Mar 2022 <i>Part-time</i>

<ul style="list-style-type: none">Hardware logic algorithm designer for the Intel CoreCo-author of “Priority Based Hardware Thread Selection – A High Performance Scalable Algorithm”, DTTC 2022 (Intel Internal Conference)	
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Teaching

Unsupervised Learning and Data Analysis - Technion Course 046202 <i>Teaching Assistant to Prof. Ron Meir</i>	Oct 2022 – May 2024
<ul style="list-style-type: none">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.