





# DAN HARAMATI

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*PhD student at Brown University studying structure in sequential decision-making for generalization.*

## Education

### Brown University

Sep 2024 - Present

*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*

*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

### EC-Diffuser: Multi-Object Manipulation via Entity-Centric Behavior Generation

*Carl Qi, Dan Haramati, Tal Daniel, Aviv Tamar, Amy Zhang. ICLR 2025*

### Entity-Centric Reinforcement Learning for Object Manipulation from Pixels

*Dan Haramati, Tal Daniel, Aviv Tamar. ICLR 2024 - **Spotlight (top 5%)***

*GCRL Workshop at NeurIPS 2023 - **Spotlight Talk***

## Workshop Papers

### 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

### 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*

## 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.