

Nimrod De La Vega

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Education

Mila Institute / Polytechnique Montréal

August 2025 – Ongoing

PhD in Computer Engineering (Reinforcement Learning)

- Affiliated with Mila (Quebec Artificial Intelligence Institute), focusing on reinforcement learning research.
- Supervised by Prof. Amir Massoud Farahmand.

Tel-Aviv University

2021 - 2023

Master of Computer Science

- Graduated magna cum laude with a GPA of 95/100.
- Co-first author of a spotlight NeurIPS 2023 paper on theoretical deep learning as part of my thesis.
- Awarded a research scholarship for full-time study at the Foundations of Deep Learning Lab.

Tel-Aviv University

2018 - 2022

Bachelor of Computer Science and Electrical Engineering

- Graduated magna cum laude with a GPA of 90/100.
- Selected to the Dean's List in the third year.
- Awarded the 'Initial Steps in Research Program' scholarship, which included a waiver of tuition fees for two semesters, recognizing outstanding young researchers.
- Awarded a \$5,000 USD scholarship from the 'Institute for Smart Transportation at Tel-Aviv University for research on object detection using machine learning.
- Finalist in the university-wide competition for workshop projects in the third year, with a project on image compression using deep neural networks.

Employment History

Teaching Assistant, Tel-Aviv University

2021 - 2023

Tel-Aviv, Israel

As a teaching assistant, I helped instruct classes and labs and guided student projects. Courses I was involved in:

- Deep Learning Workshop
- Foundations of Deep Learning course
- Introduction to Machine Learning course

Publications

- Y. Alexander,* N. De La Vega,* N. Razin, N. Cohen. What Makes Data Suitable for a Locally Connected Neural Network? A Necessary and Sufficient Condition Based on Quantum Entanglement. In the conference on Neural Information Processing Systems (NeurIPS). *Equal contribution by the first two authors.

Languages

English, French, Hebrew

Skills

Python, SQL, C, Matlab, Java, PyTorch, TensorFlow, Julia, SciPy, LaTeX