ITAY SEGEV

Haifa, Israel · 058-5111097
Itaysegev11@gmail.com

EDUCATION

2024 - CURRENT

M.Sc. COMPUTER SCIENCE, TECHNION

Focused on developing a novel multi-objective deep RL algorithm designed to tackle complex estimation tasks, with a primary application in Smart Energy Networks.

GPA: 98

2019 - 2023

B.Sc. COMPUTER ENGINEERING, TECHNION

Received the Presidential Excellence award in 2 semesters.
Received the Dean Excellence award in 5 semesters.
Received the Excellence Award for outstanding performance on the final project.

GPA: 88.5

2012-2015

STUDENT, ENGINEERING SCIENCE MAJOR, TEL MOND HIGH SCHOOL

Designed life-saving technologically enhanced gear for combat soldiers.
Received Excellence Award for Young Engineering.

RELEVANT EXPERIENCE

2023 - 2024

RESEARCH ASSISTANT, CLAIR LAB, TECHNION

Developed multi-agent environments for Smart Energy. Applied deep learning techniques to optimize AI agent performance in multi-agent systems.

2021 - 2023

CAD ENGINEER STUDENT, APPLE

Processed and analyzed large-scale engineering data using Python and SQL. Developed and maintained data processing pipelines for PD engineers. Implemented automated data aggregation and manipulation tools.

TEACHING EXPERIENCE

2024 – CURRENT

HEAD TA, SEQUENTIAL DECISION MAKING AND REINFORCEMENT LEARNING, TECHNION

Developed and implemented entire course curriculum, including tutorials, programming assignments, and final projects covering fundamental RL concepts.

TECHNICAL SKILLS

- **Programming Languages**: Python (advanced), C++, C, SQL
- **Machine Learning**: PyTorch, Deep Learning, Reinforcement Learning, Time Series Analysis.
- **Data Science**: Data Processing, Statistical Analysis

PUBLICATIONS

- **Itay Segev** and S. Keren, "Multi Perspective Actor Critic: Risk-Aware Value Decomposition for Robust and Safe Reinforcement Learning," RLC 2025 Conference, submitted for publication.
- E. Ganz, **Itay Segev**, A. Balabanov, et al., "Reinforcement learning model-based and model-free paradigms for optimal control problems in power systems: Comprehensive review and future directions," Energies, 17, 21, 2024.
- E. Ganz, **Itay Segev**, D. Baimel, L. Santosh, J. Belikov, Y. Levron, and S. Keren, "A comparative study of traditional and reinforcement-learning-based energy storage control methods," Electric Power Systems Research, 2025, submitted for publication.

ACTIVITIES

2019 - 2022 TRAINING SEEING EYE PUPPIES - TEACHING HOUSE MANNERS AND HOW TO BE CALM AND CONFIDENT IN A WIDE VARIETY OF PUBLIC SETTINGS.

2023 – 2024 COMPLETED OVER 150 DAYS OF ACTIVE MILITARY RESERVE DUTY AS A COMBAT SOLDIER.