

Nitay Alon

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EDUCATION

Hebrew University, Jerusalem, IL

MPI for biological cybernetics, Tübingen, GER

- PhD in Computer Science Oct 2020 – Oct 2025
 - Dissertation: The role of Theory of Mind in multi-agent RL mixed-motive problems
 - Advisers: Prof. Jeff Rosenschein (HUJI), Prof. Peter Dayan (MPI)
 - Focus: Multi-Agent RL, Theory of Mind, deception

Tel Aviv University, Tel Aviv, IL

- M.Sc. in Statistics and Machine Learning Oct 2015 – Oct 2019
 - Thesis: The effect of drift on the Skorokhod-embedded distribution of stopped Brownian Motion. Hidden Markov applications to Finance
 - Adviser: Prof. Isaac Meilijson
 - Focus: Measure Theory, Embedding, Semi-parametric model.
 - Magna Cum Laude, Thesis final grade 98
- B.S. in Statistics and Operations Research Oct 2012 – Oct 2015
 - Seminar: Weiszfeld method
 - Prof. Marc Teboulle
 - Focus: Convex optimization
- B.A. in Economics Oct 2012 – Oct 2015
 - Seminar: Location Games
 - Prof. Eddie Dekel
 - Focus: Game Theory, Cascading information games, location games

SELECTED PUBLICATIONS

- A (dis-) information Theory of Revealed and Unrevealed Preferences: Emerging Deception and Skepticism via Theory of Mind Aug 2023
 - Authors: Nitay Alon, Lion Schulz, Jeffery S. Rosenschein, Peter Dayan
 - Journal: OpenMind
- Between prudence and paranoia: Theory of Mind gone right, and wrong Dec 2022
 - Authors: Nitay Alon, Lion Schulz, Peter Dayan, Joseph M. Barnby
 - Conference: ICML 2023, First Workshop on Theory of Mind in Communicating Agents
- A (dis-)information theory of revealed and unrevealed preferences Dec 2022
 - Authors: Nitay Alon, Lion Schulz, Jeffery S. Rosenschein, Peter Dayan
 - Conference: NeurIPS 2022, workshop on information-theoretic principles in cognitive systems

INDUSTRY

Optimove, Tel Aviv, IL

- Senior Data Scientist, Data Science Lab, Research & Development Division Sep 2016 – Sep 2019
 - Developing and deploying *Bayesian campaign analysis*
 - Developing and deploying *Recommendation-System*
 - Developing and deploying *MAB based algorithm for customer journeys optimization*

IBM, Petah Tikva, IL

- Data Scientist, GBS, Cyber and Real time team Sep 2015 – Sep 2016
 - Developing and deploying online event detection system

TEACHING

Tel Aviv University,

Coller School of Management

- Teacher 2016 – 2020
 - Class: Big Data Technologies
 - Focus: Data Engineering, Hadoop, Spark, Kafka

PROGRAMMING LANGUAGES **Python** : high level
 R: high level
 C#: intermediate level
 C++: intermediate level

FRAMEWORKS Spark, Shiny, Flask

LANGUAGES English: Fluent. Hebrew: Native language.

INTERESTS Outdoor Hiking, Organic farming, Functional training.