

Curriculum Vitae

Personal Details

Full Name Saar Cohen
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Education and Academic Achievements

2021 – present – Bar-Ilan University – Ph.D. candidate in Computer Science

“Coalition Formation in Sequential Decision-Making under Uncertainty”, under the supervision of Prof. Noa Agmon.

2018 – 2021 – Bar-Ilan University – M.Sc. in Computer Science

“Spatial Consensus Prevention in Robotic Swarms”, under the supervision of Prof. Noa Agmon. Thesis grade: 98.

2013 – 2017 – Tel-Aviv University – B.Sc. in Mathematics

I have initiated my B.Sc. studies in Mathematics with specialization in Computer Science at Tel-Aviv University.

Teaching Experience

2023 – present – Teaching Assistant – Department of Computer Science, Bar-Ilan University, Israel

- "Discrete Structures" course (Fall 2023 and Fall 2024)
 - Responsible for preparing presentations for all recitations.
 - In Fall 2024, I served as the lead teaching assistant.
- "Machine Learning" course (Spring 2024 and Spring 2025)
 - In Spring 2025, I served as the lead teaching assistant.

Publications

Conferences

Saar Cohen and Noa Agmon. *Decentralized Online Learning by Selfish Agents in Coalition Formation*. In IJCAI'25: Proceedings of the 34th International Joint Conference on Artificial Intelligence, 2025. **(To Appear)**

Saar Cohen and Noa Agmon. *Egalitarianism in Online Coalition Formation* (Extended Abstract). AAMAS'25: Proceedings of the 24th International Conference on Autonomous Agents and Multiagent Systems, 2025. **(To Appear)**

Saar Cohen and Noa Agmon. *Online Learning of Coalition Structures by Selfish Agents*. AAI'25: Proceedings of the 39th AAAI Conference on Artificial Intelligence, 2025.

Saar Cohen and Noa Agmon. *Online Friends Partitioning under Uncertainty*. In ECAI'24: Proceedings of the 27th European Conference on Artificial Intelligence, 2024.

Saar Cohen and Noa Agmon. *Online Learning of Partitions in Additively Separable Hedonic Games*. In IJCAI'24: Proceedings of the 33rd International Joint Conference on Artificial Intelligence, 2024.

Saar Cohen and Noa Agmon. *Near-Optimal Online Resource Allocation in the Random-Order Model* (Extended Abstract). In AAMAS'24: Proceedings of the 23rd International Conference on Autonomous Agents and Multiagent Systems, 2024.

Saar Cohen and Noa Agmon. *Online Coalitional Skill Formation*. In AAMAS'23: Proceedings of the 22nd International Conference on Autonomous Agents and Multiagent Systems, 2023.

Saar Cohen and Noa Agmon. *Complexity of Probabilistic Inference in Reliability Dichotomous Hedonic Games*. In AAAI'23: Proceedings of the 37th AAAI Conference on Artificial Intelligence, 2023.

Saar Cohen and Noa Agmon. *Optimizing Multi-Agent Coordination via Hierarchical Graph Probabilistic Recursive Reasoning*. In AAMAS'22: Proceedings of the 21st International Conference on Autonomous Agents and Multiagent Systems, 2022.

Saar Cohen and Noa Agmon. *Convexified Graph Neural Networks for Distributed Control in Robotic Swarms*. In IJCAI'21: Proceedings of the international Joint Conference on Artificial Intelligence, 2021.

Saar Cohen and Noa Agmon. *On The (Im)possibility of Leading a Swarm to a Desired Consensus in Static and Dynamic Settings*. In DARS/SWARM'21: Proceedings of the 4th International Symposium on Swarm Behavior and Bio-Inspired Robotics, 2021.

Saar Cohen and Noa Agmon. *Spatial Consensus-Prevention in Robotic Swarms*. In AAMAS'21: Proceedings of the 20th International Conference on Autonomous Agents and Multiagent Systems, 2021.

Reviews

Saar Cohen and Noa Agmon. *Recent Advances in Formations of Multiple Robots*. Current Robotics Reports 2, 159–175, 2021.

Scholarships

2024 – CS@BIU Nadav Scholarship for Excellent PhD students

2023 – The President's Scholarship Program for Outstanding Doctoral Fellows:
On behalf of Bar-Ilan University's president.

2022 – CS@BIU Nadav Scholarship for Excellent M.Sc. students

Reviewing Activities

2025 (Program Committee Member) – AAAI'25, AAMAS'25 (Distinguished), IJCAI'25.

2024 (Reviewer) – ECAI'24.

2024 (Program Committee Member) – AAAI'24, IJCAI'24.

2023 (Program Committee Member) – AAAI'23, IJCAI'23 (Distinguished).

2023 (Reviewer) – ICRA'23, ECAI'23.

2022 (Reviewer) – AAMAS'22, IEEE Transactions on Robotics (T-RO).

Military Service

2017 – 2023 – Network and Security engineer at Ofek Unit:
My job consisted of both research and engineering.

Languages

- Hebrew
- English