Idan Mehalel

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Education

2018–Present **PhD in Computer Science candidate**,
The Henry and Marilyn Taub faculty of Computer Science, The Technion, Haifa, Israel.
Advisors: Prof. Yuval Filmus and Dr. Shay Moran.
Research interests: Combinatorics, Machine learning Theory and their intersection.
Studying in the *Direct Doctoral Track* for outstanding students.

2013–2018 **Bachelor of Computer Science**,
The Taub faculty of Computer Science, The Technion, Haifa, Israel.
Dean's honors (2016).

Teaching and Extracurriculars

2022–Present **Logic for Computer Science**, *TA*.
2019–2022 **Combinatorics for Computer Science**, *TA*.
2021 **Topics in Machine Learning Theory**, *TA*.
2021–Present **The Technion's Theory of Computer Science weekly seminar**, *Organizer*.

Industrial Experience

2016–2018 **Student Software Developer**, MELLANOX TECHNOLOGIES, INC.
Developed and maintained Software written in C,C++ and Python.
○ Worked on low-level libraries and high-level user interface GUI tools.
○ As a Bachelor student, received full ownership on entire parts of the product.

Awards

Spring 2023 **Technion Computer Science research excellence scholarship**.

Publications

- **Multiclass Online Learnability under Bandit Feedback**
Idan Mehalel, Ananth Raman, Vinod Raman, Unique Subedi and Ambuj Tewari
ALT 2024.

- **Optimal sets of questions for Twenty Questions**
Yuval Filmus and Idan Mehalel
SIAM Journal on Discrete Mathematics (SIDMA), to appear.
Resolves an open problem from COMBINATORICA, 39 (2019).

- **Optimal Prediction Using Expert Advice and Randomized Littlestone Dimension**
Yuval Filmus, Steve Hanneke, Idan Mehalel and Shay Moran
COLT 2023
Resolves several long standing open problems from the 90's

- **On Optimal Learning Under Targeted Data Poisoning**
Steve Hanneke, Amin Karbasi, Mohammad Mahmoody, Idan Mehalel and Shay Moran
NeurIPS 2022
Oral presentation
Resolves several open problems from UAI 2021

- **A Resilient Distributed Boosting Algorithm**
Yuval Filmus, Idan Mehalel and Shay Moran
ICML 2022