Yahav Bechavod

https://yahavbe.github.io/   yahav@seas.upenn.edu

RESEARCH INTERESTS	Machine Learning, Algorithmic Fairness, Algorithmic Game Theory, Online Learning, Incentive-Aware ML	

EDUCATION

Postdoctoral Researcher, University of Pennsylvania   2023-present
School of Engineering and Applied Science
Advisors: Prof. Aaron Roth, Prof. Michael Kearns

PhD   **Hebrew University,** Computer Science   2022
Dissertation: "Socially Aware Algorithms: Learning, Fairness, and Incentive Awareness"
Dissertation Committee: Prof. Amit Daniely, Prof. Aaron Roth, Prof. Guy Rothblum

MS   **Hebrew University,** Computer Science   2018
Graduated **Summa Cum Laude**
Thesis: "Algorithms for Fairness in Binary Classification"
Advisor: Prof. Katrina Ligett

BS   **Hebrew University**   2015
Mathematics and Computer Science, double major

GRANTS & FUNDING

Apple Seed Grant   2024
Awarded for "Learning Fine-Grained Notions of Algorithmic Fairness"

FELLOWSHIPS & AWARDS

Penn Arts & Sciences AI x Science Fellow   2024-2025

Israeli Council for Higher Education Postdoctoral Fellowship   2023-2024
90,000 USD, one of 3 recipients in Israel

Apple Scholars in AI/ML PhD Fellowship   2020-2022
130,000 USD, one of 12 recipients worldwide

Charles Clore Foundation PhD Fellowship (declined)   2020-2023
95,000 USD, one of 12 recipients in Israel

KLA Outstanding Doctoral Research Award   2021

RESEARCH EXPERIENCE

Visiting Student Researcher, University of Pennsylvania   Aug 2019-Dec 2019
Host: Prof. Aaron Roth

Visiting Scholar, Simons Institute, UC Berkeley   May 2019-July 2019
Summer Cluster: Algorithmic Fairness

Visiting Student Researcher, University of Pennsylvania   July 2017-Oct 2017
Hosts: Prof. Aaron Roth & Prof. Michael Kearns

TEACHING

Teaching Assistant, Hebrew University School of Engineering and Computer Science
- Algorithms (CS67504). Fall 2015, 2016
- Introduction to Machine Learning (CS67577). Spring 2016, 2017

SERVICE & LEADERSHIP	**Journal Refereeing:** Journal of Machine Learning Research (JMLR) **Conference Reviewer:** ICML 2022, 2023, 2024, NeurIPS 2021, 2022, 2023, ACM FAccT 2021 **Ethical Reviewer:** NeurIPS 2021, 2022, 2023, 2024 **Conference Auxiliary Reviewer:** AIES 2019 **Co-Organizer:** NeurIPS 2021 Workshop on Learning and Decision-Making with Strategic Feedback
WORKING PAPERS	**Oracle-Efficient Adaptive Learning with Long-Term Constraints** Yahav Bechavod, Aaron Roth **Learning Under Strategic Participation** Yahav Bechavod, Varun Gupta, Mirah Shi
REFEREED CONFERENCE PUBLICATIONS	**Monotone Individual Fairness** Yahav Bechavod **ICML 2024** **Individually Fair Learning with One-Sided Feedback** Yahav Bechavod, Aaron Roth **ICML 2023** **Information Discrepancy in Strategic Learning** Yahav Bechavod, Chara Podimata, Steven Wu, Juba Ziani **ICML 2022** **Gaming Helps! Learning from Strategic Interactions in Natural Dynamics** Yahav Bechavod, Katrina Ligett, Steven Wu, Juba Ziani **AISTATS 2021** **Metric-Free Individual Fairness in Online Learning** Yahav Bechavod, Christopher Jung, Steven Wu **NeurIPS 2020** **Selected for Oral Presentation (Top 1.1% of submissions)** **Equal Opportunity in Online Classification with Partial Feedback** Yahav Bechavod, Katrina Ligett, Aaron Roth, Bo Waggoner, Steven Wu **NeurIPS 2019**
REFEREED WORKSHOP PUBLICATIONS	**Penalizing Unfairness in Binary Classification** Yahav Bechavod, Katrina Ligett. In Fairness, Accountability and Transparency (**FAT/ML 2017**)
SELECTED INVITED & CONTRIBUTED TALKS	**Individual Fairness in Online Classification** University of Pennsylvania Computer Science Theory Seminar February 2023 Theory of Computation for Fairness (TOC4Fairness) Online Seminar Feb 2023 **Information Discrepancy in Strategic Learning** ICML Spotlight Presentation July 2022 **Metric-Free Individual Fairness in Online Learning** KLA PhD Awards Ceremony July 2021 Apple Machine Learning Speaker Series June 2021 Symposium on the Foundations of Responsible Computing (FORC) June 2021

December 2020
Hebrew University Advanced Seminar in Machine Learning   November 2020
Equal Opportunity in Online Classification with Partial Feedback
Simons Institute Workshop on Developments in Research on Fairness   July 2019
An Introduction to Algorithmic Fairness
Hebrew University Federmann Center for the Study of Rationality   February 2020
Google's APM Program   June 2018

NeurIPS   Oral
Presentation