

Yahav Bechavod

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RESEARCH INTERESTS	Machine Learning, Algorithmic Fairness, Algorithmic Game Theory, Online Algorithms, Incentive-Aware ML	
EDUCATION	Postdoctoral Researcher, University of Pennsylvania School of Engineering and Applied Science Hosts: Prof. Aaron Roth, Prof. Michael Kearns	2023-present
	PhD Hebrew University , Computer Science Dissertation: "Socially Aware Algorithms: Learning, Fairness, and Incentive Awareness" Dissertation Committee: Prof. Amit Daniely, Prof. Aaron Roth, Prof. Guy Rothblum	2022
	MS Hebrew University , Computer Science Graduated Summa Cum Laude Thesis: "Algorithms for Fairness in Binary Classification" Advisor: Prof. Katrina Ligett	2018
	BS Hebrew University Mathematics and Computer Science, double major	2015
GRANTS & FUNDING	Apple Seed Grant Awarded for "Learning Fine-Grained Notions of Algorithmic Fairness"	2024
FELLOWSHIPS & AWARDS	Penn Arts & Sciences AI x Science Fellow	2024-2025
	Israeli Council for Higher Education Postdoctoral Fellowship 90,000 USD, one of 3 recipients in Israel	2023-2024
	Apple Scholars in AI/ML PhD Fellowship 130,000 USD, one of 12 recipients worldwide	2020-2022
	Charles Clore Foundation PhD Fellowship (declined) 95,000 USD, one of 12 recipients in Israel	2020-2023
	KLA Outstanding Doctoral Research Award	2021
RESEARCH EXPERIENCE	Visiting Student Researcher , University of Pennsylvania Host: Prof. Aaron Roth	Aug 2019-Dec 2019
	Visiting Scholar , Simons Institute, UC Berkeley Summer Cluster: Algorithmic Fairness	May 2019-July 2019
	Visiting Student Researcher , University of Pennsylvania Hosts: Prof. Aaron Roth & Prof. Michael Kearns	July 2017-Oct 2017
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	<p>Journal Refereeing: Journal of Machine Learning Research (JMLR)</p> <p>Conference Reviewer: ICML 2022, 2023, 2024, NeurIPS 2021, 2022, 2023, ACM FAccT 2021</p> <p>Ethical Reviewer: NeurIPS 2021, 2022, 2023, 2024</p> <p>Conference Auxiliary Reviewer: AIES 2019</p> <p>Co-Organizer: NeurIPS 2021 Workshop on Learning and Decision-Making with Strategic Feedback</p>
WORKING PAPERS	<p>Oracle-Efficient Adaptive Learning with Long-Term Constraints Yahav Bechavod, Aaron Roth</p> <p>Learning Under Strategic Participation Yahav Bechavod, Varun Gupta, Mirah Shi</p>
REFEREED CONFERENCE PUBLICATIONS	<p>Monotone Individual Fairness Yahav Bechavod ICML 2024</p> <p>Individually Fair Learning with One-Sided Feedback Yahav Bechavod, Aaron Roth ICML 2023</p> <p>Information Discrepancy in Strategic Learning Yahav Bechavod, Chara Podimata, Steven Wu, Juba Ziani ICML 2022</p> <p>Gaming Helps! Learning from Strategic Interactions in Natural Dynamics Yahav Bechavod, Katrina Ligett, Steven Wu, Juba Ziani AISTATS 2021</p> <p>Metric-Free Individual Fairness in Online Learning Yahav Bechavod, Christopher Jung, Steven Wu NeurIPS 2020 Selected for Oral Presentation (Top 1.1% of submissions)</p> <p>Equal Opportunity in Online Classification with Partial Feedback Yahav Bechavod, Katrina Ligett, Aaron Roth, Bo Waggoner, Steven Wu NeurIPS 2019</p>
REFEREED WORKSHOP PUBLICATIONS	<p>Penalizing Unfairness in Binary Classification Yahav Bechavod, Katrina Ligett. In Fairness, Accountability and Transparency (FAT/ML 2017)</p>
SELECTED INVITED & CONTRIBUTED TALKS	<p>Individual Fairness in Online Classification University of Pennsylvania Computer Science Theory Seminar February 2023</p> <p>Theory of Computation for Fairness (TOC4Fairness) Online Seminar Feb 2023</p> <p>Information Discrepancy in Strategic Learning ICML Spotlight Presentation July 2022</p> <p>Metric-Free Individual Fairness in Online Learning KLA PhD Awards Ceremony July 2021</p> <p>Apple Machine Learning Speaker Series June 2021</p> <p>Symposium on the Foundations of Responsible Computing (FORC) June 2021</p>

NeurIPS Oral Presentation 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

REFERENCES

1. **Aaron Roth**
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2. **Michael Kearns**
Professor, Computer and Information Science, University of Pennsylvania
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3. **Katrina Ligett**
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4. **Cynthia Dwork**
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5. **Steven Wu**
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