

# Meena Jagadeesan

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## Summary

I am a 1st year Computer Science PhD student at UC Berkeley, where I am a member of the Berkeley AI Research Lab (BAIR) and the Theory Group. I work on research on the theoretical foundations of machine learning and algorithms.

## Education

### UC Berkeley

PHD IN COMPUTER SCIENCE

- Advised by Moritz Hardt, Michael I. Jordan, and Jacob Steinhardt
- Selected Honors: EECS Excellence Award

[Berkeley, CA, USA](#)

Aug. 2020 - Present

### Harvard University

S.M. IN COMPUTER SCIENCE

[Cambridge, MA, USA](#)

Sept. 2019- May 2020

### Harvard University

A.B. IN COMPUTER SCIENCE AND MATH, *summa cum laude*

- Secondary Field: Statistics
- Selected Honors: Phi Beta Kappa, Hoopes Prize, Detur Book Prize, Certificate of Distinction in Teaching

[Cambridge, MA, USA](#)

Sept. 2016- May 2020

### Phillips Exeter Academy

HIGH SCHOOL DIPLOMA

[Exeter, NH, USA](#)

Sept. 2012- June 2016

## Fellowships

**Open Philanthropy AI Fellowship** (2021-2025)

**Paul and Daisy Soros Fellowship for New Americans** (2020-2022)

**Berkeley Fellowship** (2020-2023)

**Siebel Scholarship** (2019-2020)

## Honors & Awards

**CRA Outstanding Undergraduate Researcher Award** (2020)

**Barry Goldwater Scholar** (2018)

**Intel Science Talent Search, 2nd Place in Basic Research** (2016)

**Davidson Fellow Laureate** (2016)

## Publications

(\* denotes equal contribution or alphabetical ordering)

### PREPRINTS:

- **Inductive Bias of Multi-Channel Linear Convolutional Networks with Bounded Weight Norm.** *Manuscript under submission.*  
Meena Jagadeesan, Ilya Razenshteyn, and Suriya Gunasekar.
- **Individual Fairness in Advertising Auctions through Inverse Proportionality.** *Manuscript under submission.*  
Shuchi Chawla\* and Meena Jagadeesan\*.

### CONFERENCE AND JOURNAL PAPERS:

- **Alternative Microfoundations for Strategic Classification.** *Proceedings of the 38th International Conference on Machine Learning (ICML), 2021 (to appear).*  
Meena Jagadeesan, Celestine Mendler-Dünner, and Moritz Hardt.
- **Multi-Category Fairness in Sponsored Search Auctions.** *Proceedings of the 3rd ACM Conference on Fairness, Accountability and Transparency (FAT\*), pp. 348–358, 2020.*  
Christina Ilvento\*, Meena Jagadeesan\*, and Shuchi Chawla.
- **Individual Fairness in Pipelines.** *Proceedings of the 1st Conference on Foundations of Responsible Computation (FORC), pp. 7:1–7:22, 2020.*  
Cynthia Dwork\*, Christina Ilvento\*, and Meena Jagadeesan\*.
- **Understanding Sparse JL for Feature Hashing.** *Proceedings of the 33rd Annual Conference on Neural Information Processing Systems (NeurIPS), pp. 15177–15187, 2019.* [NeurIPS 2019 Oral presentation \(given to 3% of accepted\)](#)

[papers](#)).

Meena Jagadeesan.

- **Simple Analysis of Sparse, Sign-Consistent JL.** *Proceedings of the 23rd International Conference on Randomization and Computation (RANDOM)*, pp. 61:1–61:20, 2019.  
Meena Jagadeesan.
- **Varying the Number of Signals in Matching Markets.** *Proceedings of the 14th International Conference on Web and Internet Economics (WINE)*, pp. 232–245, 2018.  
Meena Jagadeesan\* and Alexander Wei\*.
- **Dyson’s Partition Ranks and their Multiplicative Extensions.** *The Ramanujan Journal*, Vol. 45, Issue 3, pp. 817–839, April 2018.  
Elaine Hou\* and Meena Jagadeesan\*.
- **Mobius Polynomials of Face Posets of Convex Polytopes.** *Communications in Algebra*, Vol. 44, Issue 11, pp. 4945–4972, 2016.  
Meena Jagadeesan and Susan Durst.

## SHORT CONFERENCE PAPERS:

- **From Worst-Case to Average-Case Analysis: Accurate Latency Predictions for Key-Value Storage Engines.** *Proceedings of the ACM International Conference on Management of Data (SIGMOD)*, pp. 2853–3855, 2020. [1st Place at SIGMOD SRC](#).  
Meena Jagadeesan\* and Garrett Tanzer\*.

## Theses

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- **The Performance of Johnson-Lindenstrauss Transforms: Beyond the Classical Setting.** *Undergraduate Thesis*. [Awarded Hoopes Prize](#).  
Advised by Prof. Jelani Nelson.

## Talks

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- *Google Research Algorithms Seminar* (5/20/21): “Alternative Microfoundations for Strategic Classification”.
- *MIT Algorithms & Complexity Seminar* (4/7/21): “Inductive Bias of Multi-Channel Linear Convolutional Networks with Bounded Weight Norm”.
- *INFORMS Annual Meeting, Market Algorithms Session* (11/11/20): “Fairness in Advertising Auctions”.
- *Microsoft Research MLO Group Seminar* (6/24/20): “Understanding Sparse Johnson-Lindenstrauss Transforms for Feature Hashing”.
- *Algorithmic Game Theory Mentoring Workshop at ACM EC* (6/15/20): “Fairness in Advertising Auctions”.
- *ACM FAT\** (1/29/20): “Multi-Category Fairness in Sponsored Search Auctions”.
- *NeurIPS* (12/12/19): “Understanding Sparse JL for Feature Hashing”.
- *RANDOM* (9/21/19): “Simple Analysis of Sparse, Sign-Consistent JL”.
- *University of Wisconsin-Madison Theory Seminar* (5/17/19): “Analyzing Johnson-Lindenstrauss Transforms”.
- *WINE* (12/17/18): “Varying the Number of Signals in Matching Markets”.
- *Workshop on Frontiers of Market Design at ACM EC* (6/22/18): “Varying the Number of Signals in Matching Markets”.

## Industry Experience

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### Microsoft Research

UNDERGRADUATE RESEARCH INTERN

- Mentors: Suriya Gunasekar and Ilya Razenshteyn (Machine Learning and Optimization Group in MSR AI)

[Redmond, WA](#)

May 2020 - Aug. 2020

### Microsoft

SOFTWARE ENGINEER/PROGRAM MANAGER INTERN

[San Francisco, CA](#)

May 2018 - Aug. 2018

## Teaching and Service

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### Reviewer/Sub-Reviewer

2019-Present

- Reviewed submissions for ICML 2021, ACM FAccT 2021, STACS 2021, ITCS 2021, SOSA 2021, Management Science, and JAIR.

## Teaching Fellow for Harvard CS 61

*Sept. 2018 - Dec. 2018*

- CS 61 is Harvard's introductory systems programming class for computer science undergraduates, taught by Prof. Eddie Kohler. I led a biweekly discussion section and weekly Office Hours, helped design section materials, and graded problem sets. [Awarded a Certification of Distinction in Teaching.](#)