

# 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 BAIR and the Theory Group. I work on research in algorithms and machine learning, with a focus on theoretical foundations and societal impact.

## Education

### UC Berkeley

PHD IN COMPUTER SCIENCE

- Selected Honors: EECS Excellence Award

*Berkeley, CA, USA*

2020 - Ongoing

### Harvard University

S.M. IN COMPUTER SCIENCE

*Cambridge, MA, USA*

2019-2020

### 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*

2019-2020

### Phillips Exeter Academy

HIGH SCHOOL DIPLOMA

*Exeter, NH, USA*

2016-2020

## Fellowships

**Paul and Daisy Soros Fellowship for New Americans** (2020-2024).

**Berkeley Fellowship** (2020-2024).

**Siebel Scholarship** (2019-2020).

**Barry Goldwater Scholarship** (2018-2020).

## Honors & Awards

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

**NeurIPS Oral Presentation** (2019).

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

**Davidson Fellow Laureate** (2016).

## Publications

(\* denotes equal contribution or alphabetical ordering)

### CONFERENCE AND JOURNAL PAPERS:

- **Multi-Category Fairness in Sponsored Search Auctions.** *Proceedings of the 3rd ACM Conference on Fairness, Accountability and Transparency (FAT\*)*, 2020, pp. 348–358.  
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)*, 2019, pp. 15177-15187. [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.
- **Dyson's Partition Ranks and their Multiplicative Extensions.** *The Ramanujan Journal*, Vol. 45, Issue 3, April 2018, pp. 817–839.  
Elaine Hou\* and Meena Jagadeesan\*.
- **Mobius Polynomials of Face Posets of Convex Polytopes.** *Communications in Algebra*, Vol. 44, Issue 11, 2016, pp. 4945-4972.

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), 2020, pp. 2853-3855. [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 the Hoopes Prize](#)*  
Advised by Prof. Jelani Nelson.

## Talks

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- *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: Ilya Razenshteyn and Suriya Gunasekar
- Worked on the theory of convolutional neural networks (manuscript in progress).

[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 ITCS, SOSA, Management Science, and JAIR.

### Mentor for BAIR Undergraduate Mentorship Program.

Sept. 2020 - Present

- Mentored undergraduate students from underrepresented groups who are interested in pursuing AI research.

### Teaching Fellow for Harvard CS 61

Sept. 2018 - Dec. 2018

- CS 61 is the Harvard's introductory systems programming class for computer science undergraduates. I led a biweekly discussion section and weekly Office Hours, helped design section materials, and graded problem sets.