

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

- 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

Berkeley Fellowship (2022-2024)

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

Siebel Scholarship (2019-2020)

Honors & Awards

CRA Outstanding Undergraduate Researcher Award (2020)

NeurIPS Oral Presentation (2019)

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.
- **Fairness in ad auctions through inverse proportionality.** *Manuscript under submission.*
Shuchi Chawla* and Meena Jagadeesan*.

CONFERENCE AND JOURNAL PAPERS:

- **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

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

Talks

- *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

Microsoft Research

UNDERGRADUATE RESEARCH INTERN

[Redmond, WA](#)

May 2020 - Aug. 2020

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

Microsoft

SOFTWARE ENGINEER/PROGRAM MANAGER INTERN

[San Francisco, CA](#)

May 2018 - Aug. 2018

Teaching and Service

Reviewer/Sub-Reviewer

2019-Present

- Reviewed submissions for ACM FAccT, STACS, 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 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. [Awarded a Certification of Distinction in Teaching.](#)