MEENA JAGADEESAN

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EDUCATION

Harvard University, **S.M. Computer Science** **Anticipated, 2020**

Harvard University [GPA: 3.975/4.0], **A.B. Computer Science/Math, Secondary in Statistics** **Anticipated, 2020**

- Senior Thesis: "Analyzing Johnson-Lindenstrauss Distributions" [in progress, Advisor: Prof. Jelani Nelson]
- *Phi Beta Kappa* and *Detur Book Prize* for academic achievement

Phillips Exeter Academy, High School Diploma 2016

- *Cox Medal* – awarded to the 5 students in the graduating class with the highest scholastic rank

SELECTED AWARDS

CRA Outstanding Undergraduate Researcher Award 2020
Siebel Scholar 2019-2020
Barry Goldwater Scholar 2018
Certificate of Distinction in Teaching, Derek Bok Center, Harvard University 2018
Intel Science Talent Search, 2nd Place in Basic Research 2016
Davidson Fellow Laureate 2016

PUBLICATIONS

(denotes alphabetical ordering)*

1. Christina Ilvento*, Meena Jagadeesan*, and Shuchi Chawla. "Multi-Category Fairness in Sponsored Search Auctions." *Proceedings of the 3rd ACM Conference on Fairness, Accountability and Transparency **(FAT*)**,* 2020, to appear.
2. Meena Jagadeesan. "Understanding Sparse JL for Feature Hashing." *Proceedings of the 33rd Annual Conference on Neural Information Processing Systems **(NeurIPS)**,* 2019, to appear. **Oral presentation (given to ~3% of accepted papers).**
3. 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.
4. Meena Jagadeesan* and Alexander Wei*. "Varying the Number of Signals in Matching Markets." *Proceedings of the 14th International Conference on Web and Internet Economics **(WINE)**,* pp. 232-245, 2018.
5. Elaine Hou* and Meena Jagadeesan*. "Dyson's Partition Ranks and their Multiplicative Extensions." ***The Ramanujan Journal**,* Vol. 45, Issue 3, April 2018, pp. 817–839.
6. Meena Jagadeesan and Susan Durst. "Mobius Polynomials of Face Posets of Convex Polytopes." ***Communications in Algebra**,* Vol. 44, Issue 11, 2016, pp. 4945-4972.

ONGOING RESEARCH / MANUSCRIPTS

1. "Individual Fairness in Pipelines" (with Cynthia Dwork and Christina Ilvento).
2. Project on browser extension security (with Alisha Ukani, Alexander Wei, and James Mickens).
3. Project on automating data structural design (with the Harvard Data Systems Laboratory (DASlab)).

SELECTED PRESENTATIONS

1. "Understanding Sparse JL for Feature Hashing" at NeurIPS, 12/12/2019 (Talk)
2. "Simple Analysis of Sparse, Sign-Consistent JL" at RANDOM, 9/21/2019 (Talk)
3. "Multi-Category Fairness in Sponsored Search Auctions" at Workshop on Mechanism Design for Social Good at ACM EC, 6/28/2019 (Poster)
4. "Analyzing Johnson-Lindenstrauss Transforms" at U. Wisconsin-Madison Theory Seminar, 5/17/2019 (Talk)
5. "Varying the Number of Signals in Matching Markets" at WINE, 12/17/2018 (Talk)
6. "Varying the Number of Signals in Matching Markets" at Workshop on Frontiers of Market Design at ACM EC, 6/22/2018 (Talk)

EMPLOYMENT

Harvard College Research Program Fellow	Summer 2019
Teaching Fellow, Harvard CS 61 (Systems Programming and Machine Organization)	Fall 2018
Software Engineer/Program Manager at Microsoft	Summer 2018
Harvard Herchel Smith & PRISE Fellow	Summer 2017
Emory Research Experience for Undergraduates	Summer 2016

PROFESSIONAL ACTIVITIES

Referee for *Journal of Artificial Intelligence Research (JAIR), Management Science*	
Participant in the Research Science Institute (RSI)	Summer 2015