

Advik Shreekumar

Curriculum Vitae

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Education

Ph.D. Student in Economics (2019 – Current)

Massachusetts Institute of Technology (MIT), Cambridge, MA

A.B. Statistics, *summa cum laude* (2012 – 2016)

Harvard University, Cambridge, MA

Thesis: Gaussian process and hidden Markov models for student absences in a large school district.

Working Papers

1. **When Guidance Changes: Public Inference from Crisis Policy**, with Charlie Rafkin and Pierre-Luc Vautrey. [[Link](#)]

Research Grants

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| 2020 | Russell Sage Foundation Small Grant in Computational Social Sciences
with Charlie Rafkin and Pierre-Luc Vautrey |
| 2020 | George and Obie Shultz Fund at MIT
with Charlie Rafkin and Pierre-Luc Vautrey |
| 2013 | Program for Research in Science and Engineering |

Research Experience

- 2018-19 Profs. Sendhil Mullainathan, Jens Ludwig, and Jann Spiess
A machine learning approach for multiple hypothesis testing.
- 2018-19 Profs. Sendhil Mullainathan and Ziad Obermeyer
Behavioral biases in emergency room physician decisions.
- 2015 John Ternovski and Prof. Todd Rogers
Familial trends in student absences.
- 2013 Dr. Se Hoon Choi and Prof. Rudolph Tanzi
Antibiotic properties of the Alzheimer's-linked amyloid β protein.

Teaching

- 2016 Stat 111: Introduction to Theoretical Statistics
Derek Bok Certificate of Distinction in Teaching for Teaching Assistants
Section, office hours, grading
- 2015 Stat 110: Introduction to Probability
Group tutoring
- 2015 Stat 111: Introduction to Theoretical Statistics
Office hours, grading
- 2014 Stat 110: Introduction to Probability
Tutoring

Academic Honors

- 2019 National Science Foundation Graduate Research Fellowship
- 2016 Phi Beta Kappa
- 2015 John Harvard Scholar

Talks

- 2017 Modeling EITC and SNAP Participation Rates with ACS PUMS [[Link](#)]
ACS Data Users Conference, Washington, DC
with Ola Topczewska and Kelly Kreft
- 2017 Using Data to Close the SNAP and EITC Participation Gap in NYC [[Link](#)]
ChiHackNight, Chicago, IL
with Ola Topczewska and Kelly Kreft
- 2017 Fighting Poverty with Data Science
Princeton University Data@ Series, Princeton, NJ
with Scarlett Swerdlow

Industry Experience

2016–2018 Applied Data Scientist, Civis Analytics

Skills

Programming R, Stan, SQL, Python, bash, SAS
Software & Tools \LaTeX , Git, make, Tableau