

# 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.

## Research Grants

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|------|--|
| 2020 | Russell Sage Foundation Small Grant in Computational Social Sciences<br>with Charlie Rafkin and Pierre-Luc Vautrey |
| 2020 | George and Obie Shultz Fund at MIT<br>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  $\beta$  protein.

## Teaching

- 2016     Stat 111: Introduction to Theoretical Statistics  
Teaching Assistant: section, office hours, grading  
Derek Bok Certificate of Distinction in Teaching
- 2015     Stat 110: Introduction to Probability  
Group tutoring
- 2015     Stat 111: Introduction to Theoretical Statistics  
Course Assistant: 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

2016–18     Applied Data Scientist, Civis Analytics

## Skills

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