

# Shraddha Anand

## Software Engineer

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### EDUCATION

#### **WELLESLEY COLLEGE**

Bachelor of Arts: Double major in Mathematics (Honors) and Economics

#### **MASSACHUSETTS INSTITUTE OF TECHNOLOGY (MIT)**

Cross-registered student in Economics Department

#### **GENERAL ASSEMBLY SOFTWARE ENGINEERING IMMERSIVE PROGRAM**

An intensive, 12-week, 400+ hour full-stack software engineering training program.

Wellesley, MA

Sept. 2017 - May 2021

Cambridge, MA

Sept. 2019 - May 2020

Boston, MA

May 2022 - August 2022

### TECHNICAL SKILLS

**Languages and Software:** React, Node, HTML, JavaScript, CSS, SQL, Python, R, Stata, Latex, AWS, API, AJAX, Git, GitHub

**Coursework:** Probability Theory and Statistics, Complex Analysis, Topology, Causal Inference, Statistical Modeling

### PROJECTS

#### **Senior Thesis: The Power Advantage of Correctly Analyzing Rerandomized Experiments**

Feb. 2019 – present

(*Cassandra Pattanayak (QAI, Wellesley College)*)

- Designed experiments in R to quantify the power advantage of using the rerandomization test as opposed to the t-test to analyze rerandomization. By varying functional forms, I studied conditions where this power advantage is most prevalent. I extend the field of rerandomization by studying criteria other than the Mahalanobis distance to balance samples and analyze power advantages then

[Paper](#)

#### **TravelTips, a web application designed to use 3<sup>rd</sup> party APIs to aid trip planning**

June 2022

- I design a website using React, JavaScript, HTML, CSS, and 3<sup>rd</sup> party APIs where a user can enter their travel destination and get information about the weather, local news, and hotels and restaurants in the area.

[Website](#) | [Code](#)

### WORK EXPERIENCE

#### **HARVARD BUSINESS SCHOOL, STRATEGY UNIT**

Cambridge, MA

*Research Assistant (Hong Luo & Juan Alcacer)*

July 2021 – present

- Researched techniques to categorize Twitter users into occupation sectors using profile information. Aim to study whether the #MeToo movement affected the business strategies of various sectors differently.
- Created graphs used by an entire cohort of MBA students in a required, quantitative graduate course at HBS.
- Took graduate economics courses at Harvard Graduate School Arts and Sciences (GSAS)

#### **WELLESLEY COLLEGE**

Wellesley, MA

*Research Assistant (Baafra Abeberese).*

June 2018 – Sept. 2020

- Used STATA to clean and analyze firm-level data from World Bank's Enterprise Survey.

*Supplemental instructor & tutor (Mathematics and Economics Department)*

Jan. 2018 – May 2019

- Held review sessions and office hours weekly for sections of 25-30 students for the following courses: Multivariable Calculus, Linear Algebra, Introductory and Intermediate Microeconomics.
- Graded problem sets for 25 students/section for the following courses: Applied Data Analysis and Statistical Inference, Math for Economics and Finance, Introductory Microeconomics.

#### **MASSACHUSETTS INSTITUTE OF TECHNOLOGY, ECONOMICS DEPARTMENT**

Cambridge, MA

*Research Assistant (MIT JPAL, MIT MEDSL)*

June 2019 - Oct. 2021

- Led code review process of STATA files, generated tables for paper, and led the transition from Dropbox to GitHub
- Cleaned, and merged USA precinct-level 2016 election datasets into a mature, open-source code repository

#### **INTERNATIONAL MONETARY FUND**

Washington, DC

*Research Assistant (Sonali Das)*

Feb 2020 - Oct. 2021

- Wrote a paper which disentangles the relationship between public and private investment at the state level for the first time in India. I created a novel state-level investment dataset using the CapEX-CMIE database

[Presentation](#) | [Code](#)