Trisha Singh
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SUMMARY I studied and conducted research in Math and Economics at Middlebury College and am starting my MS in Statistics from Stanford University. Post college, I worked at Analysis Group, where I built apps and conducted statistical analysis to solve unique litigation and healthcare problems.

WORK INTERESTS Machine learning, natural language processing, causal inference

EDUCATION

Stanford University — Stanford, California
M.S., Statistics — (incoming September 2019)
Middlebury College — Middlebury, Vermont
B.A., Double major: Economics and Mathematics — (September 2014 to May 2018)

- Cumulative GPA: 3.8/4.0, Economics GPA: 4.0/4.0, Math GPA: 3.8/4.0
- Relevant coursework: Machine Learning, Stochastic Processes, Theory of Statistics, Data Structures, Data Science, Probability, Linear Algebra & Differential Equations

RELEVANT WORK EXPERIENCE

Analysis Group — **Boston, MA**
Analyst | Litigation and Biostatistics Research — *May-June 2017, September 2018-May 2019 (11 months)*

- Litigation: conducted profit-loss analyses on mortgage backed security loans; sped up data cleaning by 80 percent using Python's NLTK library to clean securities data and track sales
- Healthcare: created cost effectiveness analysis app in R Shiny for leading pharmaceutical companies; analyzed drug trial data for publication
- Leadership: Trained 150 analysts across 6 offices in data analysis and natural language processing in Python; created and led algorithm design workshop for all healthcare analysts in Boston

Middlebury College — **Middlebury, VT**
Research Assistant | Economics Department — *March 2017-May 2018 (1 year)*

- Analyzed the effect of deforestation on malaria prevalence and economic outcomes in Nigeria
- Created a tool in ArcPy (ArcGIS and Python) to help economists summarize geographic data

Evidence for Policy Design, Harvard Kennedy School — **New Delhi, India**
Research Intern — *May-August 2016 (3 months)*

- Worked with a team of development economists to formulate, implement, and then analyze a randomized controlled trial in rural parts of India in three different states

Center for Teaching, Learning, and Research — **Middlebury, VT**
Quantitative Tutor and Teacher's Assistant | Statistics and Economics — *March 2015-May 2016 (1.5 years)*

- Explained data visualization and inference to students across disciplines using R and STATA

SELECTED INDEPENDENT PROJECTS

Machine Learning Project
Predicting Energy Consumption using Time Series Data

- Trained a convolutional neural network to predict energy consumption of a building for the next week using historical consumption data, predicted consumption with only a 5% error on the test set

Statistics Research Paper
Causal Teamwork: Regression and Matching as Supplements in the estimation of Causal Effects

- Studied graduate level causal analysis concepts to compare the performance of non-parametric regression techniques using Monte Carlo simulations
- Awarded $5000 by Math department to attend professional epidemiology seminar by StatHorizons

RELEVANT SKILLS AND INTERESTS

- Languages/technologies: Proficient in Python, R, SAS, STATA, QGIS; familiar with Java, MATLAB.

- Organizations: Student Government Association (served in leadership roles for 4 years), Volunteer at Charter House Coalition (non-profit food and shelter house), Volunteer Services Organization

AWARDS AND HONORS

- **Summa Cum Laude**
- **Highest Honors in Economics, F.C. Dirks Prize in Economics, High Honors in Mathematics**
- **College Scholar**: Highest academic honor for semester GPA above 3.6 *March 2015-May 2018*
- **BOLD Scholar:** $25,000 p.a. scholarship for academic excellence *September 2016-May 2018*