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Education _

Stanford University

Stanford, CA Incoming, Sep 2019

M.S. STATISTICS

Middlebury, VT

Middlebury College B.A. MATHEMATICS AND ECONOMICS (DOUBLE MAJOR), GPA: 3.83/4.00

Sep 2014 - May 2018

Skills_

Areas Tools Machine Learning, Causal Inference, Probability and Statistics Theory, Linear Algebra, Data Structures

Python with NumPy, pandas, and scikit-learn, R with data.frame, dplyr, and ggplot2, SQL, QGIS

Experience ____

Quantitative Analyst

Boston, MA

ANALYSIS GROUP

May - Jun 2017, Sep 2018 - May 2019 (11 months)

- · Assembled first-of-its-kind dataset on treatment of a rare disease using electronic medical records; automated data extraction, cleaning, and analysis which sped up pipeline by 80% for creating frequent and iterative deliverables
- Built the survival analysis component with cox regression models and interactive graphics for an internal RShiny app for comparing drugs; it is now being used on multiple cases to provide quick and reliable insights to clients
- Parsed and cleaned large unstructured trading logs to identify spoofing in financial markets
- Trained 150 analysts across 6 offices on data analysis with pandas and natural language processing in Python; created and led **algorithm design workshop** for all healthcare analysts in Boston

Research Assistant Middlebury, VT

MIDDLEBURY COLLEGE ECONOMICS DEPARTMENT

Mar 2017 - May 2018 (1 year)

- · Analyzed the effect of deforestation on malaria prevalence and economic outcomes in Nigeria such as children's mortality, nutrition, and education using GIS and difference-in-differences estimation
- · Consolidated and cleaned multiple survey and geographic datasets; read and summarized health literature to propose estimation strategies

Teaching Assistant and Tutor

Middlebury, VT

STATISTICS, ECONOMICS, GIS

Mar 2016 - May 2018 (2.5 years)

- Led tutoring sessions for Introduction to Statistics, Regression Analysis, and Introduction to GIS; graded and proofread solutions for assignments
- Explained data analysis and visualization concepts to students in R, STATA, and ArcGIS

Projects _____

Independent Study on Causal Inference

https://github.com/trishasingh/regression-and-matching

- · Compared the performance of different non-parametric regression and propensity score matching methods for causal effect estimation; used **parallel processing** to conduct Monte Carlo simulations in R
- Awarded \$5,000 by Math department to attend StatHorizons seminar
- Invited to present research at Smith College

Enegry Demand Forecasting

https://github.com/trishasingh/energy-consumption-forecasting

• Trained a convolutional neural network to predict energy consumption of a building with NumPy and keras in Python

Honors & Awards

2016 - 2018	BOLD Scholar , \$25,000 p.a. scholarship awarded for academic excellence	National
Apr 2016	Winner, Best Visualization , American Statistical Association DataFest Vermont	Regional
2014 - 2018	F.C. Dirks Prize in Economics, Highest Honors in Economics, Top 10%	Middlebury College
2014 - 2018	High Honors in Mathematics, Top 10%	Middlebury College