

Daniel Nolte

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MATHEMATICS AND ECONOMICS STUDIES AND ACTIVITIES

UNIVERSITY OF ROCHESTER

ROCHESTER, NY

Dual Degree in Mathematics (B.A.) and Economics (B.A.)

August 2013 – May 2017

- Cumulative GPA of 3.84/4.00 and Dean's List 8 of 8 semesters
- Honors: Phi Beta Kappa, *cum laude*, Omicron Delta Epsilon Honor Society (Economics), Distinction in Mathematics and Economics
- Selected as Provost's Circle Scholar, an award given to 8-10 student athletes each year for excellence in academics and athletics
- Selected Activities: University Writing Tutor (President); Varsity Cross Country and Track (Captain); Teaching Assistant for two economics courses: Principles of Economics and Econometrics
- Relevant Coursework: Multidimensional Calculus, Linear Algebra, Intro to Probability, Economic Statistics, Econometrics, Computational Intro to Statistics, Abstract Algebra

SELECTED WORK AND INTERNSHIP EXPERIENCE

SENSOR TOWER

SAN FRANCISCO, CA

Data Scientist / Junior Data Scientist / Data Analyst

April 2019 – Present

- Maintained a set of complex curve fitting algorithms using Theil-Sen estimation, Huber regression, and broken power law models to estimate downloads and revenue of all mobile apps ranked on the App Store
- Wrote, tested, and implemented production-ready Ruby code to modify internal systems for data ingestion, processing, and modeling to improve model performance and accuracy

EDGEWORTH ECONOMICS

SAN FRANCISCO, CA

Senior Consultant / Economic Consultant

July 2017 – March 2019

- Used Stata to implement Monte Carlo simulations to assign value to LTE patent portfolios of top U.S. phone manufacturers, and used subsequent results to calculate royalty rates submitted in expert testimony
- Cleaned and aggregated transactional data from several car parts manufacturers, and used two-stage OLS regression models to assess evidence that these firms were colluding to price in an anticompetitive manner
- Used SAS to calculate damages in a class action lawsuit by modeling the extent to which advertiser behavior was influenced by an error in the calculation of an analytical metric supplied by a large social media platform

THINK TANKS AND CIVIL SOCIETIES PROGRAM (UNIVERSITY OF PENNSYLVANIA)

PHILADELPHIA, PA

Africa Project Lead / Data Specialist

Summer 2016

- Led a team studying links between research and policymaking in Sub-Saharan Africa, and concluded that African think tanks suffer from poor communications and an inability to keep pace with technological trends
- Produced a comprehensive, 60-page literature review which was used to inform research published by University of Pennsylvania international relations scholars

STATISTICAL PROGRAMMING SKILLS AND EXPERIENCE

- Used Stata and SAS in a professional capacity to query, clean, manipulate, and analyze observational data for use in expert witness testimony submitted on behalf of corporate legal clients
- Experienced using MongoDB to efficiently access and store distributed data for use in machine learning applications
- Used R in both academic and professional settings to construct power plots, conduct non-parametric hypothesis testing, test statistical significance, and create dynamic visualizations using ggplot2
- Advanced: Ruby, Stata, SAS, R, Git, Bash, Excel | Proficient: Python, SQL, Latex, Mathematica