Daniel Nolte

dnolte220@gmail.com | 203-586-8173 | [LinkedIn](#) | [GitHub](#)

EDUCATION

HARVARD UNIVERSITY — **BOSTON, MA**
M.S. in Biostatistics — *August 2021 – May 2023*
- Cumulative GPA of 3.94/4.00
- Relevant Coursework: Data Science & Machine Learning, Statistical Methods & Inference, Applied Regression, Bayesian Inference, Epidemiology, Survival Analysis, Longitudinal Analysis

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 Activities: University Writing Tutor (President); Varsity Cross Country and Track (Captain)

FULL-TIME WORK EXPERIENCE

SENSOR TOWER — **SAN FRANCISCO, CA**
Data Scientist | Junior Data Scientist | Data Analyst — *April 2019 – May 2021*
- Wrote, tested, reviewed, and merged production-ready Ruby code to modify internal systems for data ingestion, processing, and modeling to improve model performance and accuracy.
- 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.

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.

RECENT HEALTH-RELATED INTERNSHIP EXPERIENCE

EXACT SCIENCES — **CAMBRIDGE, MA**
Machine Learning Intern — *Summer 2022*
- Leveraged an electronic medical records database to construct a retrospective, longitudinal study analyzing protein biomarker concentrations in the lead-up to cancer diagnosis.
- Found that modeling the rate of change of Alpha-fetaprotein (AFP) in patients allowed for more accurate cancer predictions via a Multi-Cancer Early Detection (MCED) blood test.

MGH BIOSTATISTICS — **BOSTON, MA**
Data Analyst — *February 2022– January 2023 (Part-Time)*
- Wrote an R package, [longdrop2](#), which systematically evaluates the sensitivity of mixed model results to missingness due to drop-out in the longitudinal setting.
- Used longitudinal methods to analyze the impact of mindfulness-based cognitive therapy on wellness and depression outcomes, as well as the mediating effect of mindfulness on well-being.

PROGRAMMING/SOFTWARE

- Advanced (Used heavily in a professional setting): *Python, R, Stata, Ruby, Git, MongoDB, Excel*
- Experienced (Used in school/lightly in a professional setting): *SQL, SAS, Mathematica*