

Daniel Nolte

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EDUCATION

HARVARD UNIVERSITY

BOSTON, MA

M.S. in Biostatistics; GPA 3.95/4.00

August 2021 – May 2023

- 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.); GPA 3.84/4.00

August 2013 – May 2017

- Honors: Phi Beta Kappa, *cum laude*, ODE Honor Society (Economics), Distinction in Math and Economics
- Selected Activities: University Writing Tutor (President); Varsity Cross Country and Track (Captain)

FULL-TIME WORK EXPERIENCE

FELLOW HEALTH

CAMBRIDGE, MA

Clinical Research Data Scientist

November 2023 – May 2024

- As lead statistician, analyzed propriety customer-provided survey data to support the submission of 10+ abstracts and manuscripts to academic conferences pertaining to male reproductive health.
- This role was eliminated in May 2024 as a result of company-wide budget cuts affecting 10% of staff.

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 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.
- 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.

PART-TIME AND 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-fetoprotein (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, SQL, R, Stata, Ruby, Git, MongoDB, Excel*
- Experienced (Used in school/lightly in a professional setting): *SAS, Mathematica*