Benjamin Henly Wittenbrink

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EDUCATION

Stanford University
- Expected M.S. in Computer Science with concentration in Artificial Intelligence, Class of 2023, GPA: **3.98/4.00**
- B.A.H in Economics (with Honors) and B.S. in Mathematics, Class of 2022, GPA: **4.00/4.00**
- **Coursework**: **Econ**: Micro, Macro, Econometrics, Honors Market Design, Honors Game Theory, Political Economy, Financial Markets; **Math**: Linear Algebra, Real Analysis, Multivariate Calculus, ODEs, PDEs, Matrix Theory, Graph Theory, Combinatorics, Stochastic Processes, Time Series; **CS**: Machine Learning, Deep Learning, Natural Language Processing, Computer Vision, Optimization, Algorithms, Systems, Blockchain, Computation Theory

University of Chicago Laboratory High School, Class of 2017, Unweighted GPA: 3.96/4.00

RESEARCH & WORK EXPERIENCE

Prof. Matthew Gentzkow, Stanford Dept. of Economics, *Research Assistant,* **July 2022 – present**

QuantCo, *Quantitative Research Intern,* **Oct. 2020 – Aug. 2021**
- Design choice model, statistical algorithm to optimize claims network steering, balance global cost with local volume objectives; oversee project from initial development to deployment; estimate cost, treatment effect models; assist in data migration to GCP

Profs. Gopi Goda & Mark Duggan, National Bureau of Economic Research, *Research Assistant,* **June – Oct. 2020**
- Estimate fixed effects panel regressions, statistical models; generate LaTeX tables; prepare paper (co-author) for publication

New York Federal Reserve Research & Statistics, *Summer Analyst,* **June 2020 – Aug. 2020**
- Conduct geospatial analysis on whether banks, mortgage lending accurately price in systematic climate disaster risk

Prof. Mark Duggan, Stanford Dept. of Economics, *Research Assistant,* **Sept. 2018 – June 2020**
- Analyze effect of minimum wage increases on SSI/OASDI enrollment, applications using border-county variation; evaluate spatial allocation of DoD contracts during budget sequester; maintain data pipeline

QuantCo, *Data Science Intern,* **June – Sept. 2019**
- Develop, implement causal statistical models, machine learning algorithms to improve efficiency of claims handling at major insurer; build monitoring dashboard using Dash, Flask; read pertinent econometrics, statistics, ML literature

CollegeVine, *Applications Consultant,* **May 2017 – June 2018**

Research Assistant, **2016 – 2019**
- **Stanford:** Prof. Rebecca Diamond (GSB), Sept. 2018 – Feb. 2019; Prof. Jonathan Rodden (Political Science), Jan. – June 2018
- **University of Chicago:** Prof. John List (Economics) and Prof. Howard Nusbaum (Psychology), both June – Sept. 2018; Prof. Eric Oliver (Political Science), Summer 2016, 2017

PAPERS & PUBLICATIONS

The Effects of Facebook and Instagram on the 2020 Election, with Matthew Gentzkow et al. *In progress.*

Analyzing Candidates' Ideological Messaging Throughout the Electoral Cycle. *Stanford Department of Economics Honors Theses.* 2022. Received the 2022 *Anna Laura Myers Prize for Outstanding Honors Thesis.*

The Minimum Wage and Social Security Disability Insurance, with Mark Duggan and Gopi Goda. *In progress.*

George Mortimer Pullman. *The Concord Review, 27/2/W16.* 2016.

ACTIVITIES & HONORS

Stanford Economics Major Peer Advisor, 2019 - 2022

Staff Writer, Stanford Daily Data Team, 2020 – 2021: *Best Data Visualization Article of Volume 257*

Stanford in Government: Director of Analytics, 2019 – 2020; Fellowships and Public Policy Forum, 2018 - 2019

1st Place, 2019 Stanford Institute of Economic Research Policy Hackathon 2019 (2nd Place in 2018)

High School Senior Class Vice President, 2016 - 2017

High School Yearbook Journalism, 2015 – 2017: *Editor-in-Chief; Best in Illinois 2015, 2016; NSPA Honor Roll 2016, 2017*

Helen and Louise Gardner Prize, Full Scholarship for German Exchange, 2015

SKILLS

Computer: Python, R, C++, C, Stata, LaTeX, Git, Java, Excel, PowerPoint, Photoshop, InDesign

Languages: English (native), German (full professional proficiency)