

BRAD CHATTERGOON

Department of Industrial Engineering & Operations Research, University of California, Berkeley
Berkeley, CA · bradchattergoon@berkeley.edu · bradchattergoon.online · [Google Scholar](#) · [GitHub](#)

EDUCATION

- 2025– Ph.D., Industrial Engineering and Operations Research, University of California, Berkeley
M.S., Industrial Engineering and Operations Research, awarded 2026 (conferred en route to the Ph.D., upon completion of the first year)
- 2025 S.M., Data Science, Harvard University, School of Engineering and Applied Sciences
Thesis: Bayesian NLP model examining the impact of inventors' degree of specialization on innovation outcomes
Coursework: Causal Inference, Economics, Algorithms & Data Structures
- 2018 M.B.A., Yale School of Management (Silver Scholar)
- 2015 B.S., Applied and Computational Mathematics (Honors), California Institute of Technology
- 2015 B.S., Business, Economics, and Management (Honors), California Institute of Technology

RESEARCH INTERESTS

Economics of innovation; text analysis (topic modeling, large language models); Bayesian statistics and variational inference; causal inference (regression discontinuity, differences-in-differences); law & economics; financial economics.

PUBLICATIONS

Chattergoon, B., and W. R. Kerr. 2022. “Winner Takes All? Tech Clusters, Population Centers, and the Spatial Transformation of U.S. Invention.” *Research Policy* 51(2): 104418.
Also circulated as NBER Working Paper No. 29456.

WORKING PAPERS

“*Inventor Specialization and Innovation Outcomes: A Bayesian NLP Approach*” (based on M.S. thesis, Harvard University)

RESEARCH EXPERIENCE

- 2019–2021 Economics Research Associate, Harvard Business School
Advisor: Prof. William (Bill) Kerr. Built a BERT language model leveraging patent descriptions to classify software patents (precision 85%, recall 88%); used in Chattergoon and Kerr (2022), Research Policy. Contributed to research on the geography and economics of innovation.
- 2018–2019 Economics Research Statistician, Yale School of Management
Advisor: Prof. Fiona Scott Morton. Studied the economic impact of within-industry stock ownership by similar investors, using stock price, 13-F ownership, and CAPM data.
- 2023 Summer Research Associate, MIT Sloan School of Management
Advisor: Prof. John Horton (administered through Upwork, half-time). Studied following relationships and community structure on Twitter.

TEACHING EXPERIENCE

2016–2018 Teaching Assistant, Yale School of Management
Healthcare Economics; Business Ethics

OTHER SCHOLARLY ACTIVITY

Math Boot Camp Notes: teaching notes covering the mathematical foundations (real analysis, linear algebra, probability) for first-year Optimization and Stochastic Processes sequences in Operations Research Ph.D. programs. github.com/bradchattergoon/math-boot-camp-notes

OTHER PROFESSIONAL EXPERIENCE

2024 Quantitative Research Intern, Quantbot Technologies
Developed systematic statistical arbitrage strategies for equities using machine learning in Python.

2021–2022 Data Analyst/Engineer, Quantitative Strategies (Associate), Pretium Partners LLC
Built ETL pipelines automating data flows across business units using DBT, AWS, Snowflake, and Airflow; developed dashboards and reporting on risk, operations, and KPIs using SQL, Python, and Looker.

HONORS AND AWARDS

2018 Silver Scholar, Yale School of Management M.B.A.

2018 Anonymous Peer Nomination (classmate who contributed most to cohort learning), Yale SOM

2009 1st Place, Trinidad and Tobago Mathematics Olympiad; invited to IMO team

ACADEMIC SERVICE

2024–2025 Co-Chair, SEAS Graduate Advisory Council, Harvard University

TECHNICAL SKILLS

Python, R, SQL, Jupyter, Pandas, Tidymverse; data visualization with ggplot, Plotly, Seaborn, Looker.