

Ben Kim

btkim@uchicago.edu | [LinkedIn](#)

PROFESSIONAL SUMMARY

Quantitative researcher with experience in financial market analytics, econometrics, applied machine learning, large-scale data pipelines, and technical documentation. Currently a Research Assistant in the Finance Department at the Federal Reserve Bank of Chicago, where I build automated market-monitoring workflows and analyze municipal bond transaction costs, liquidity, yields, and stress indicators. Skilled in Python, R, STATA, SQL, statistical modeling, model evaluation, reproducible workflows, and communicating quantitative results to senior stakeholders.

Quantitative Methods: Econometrics, statistical modeling, causal inference, probability, optimization

Programming & Data: Python, R, STATA, SQL, SAS, ggplot2, Shiny, web scraping, LLM APIs, automation

EDUCATION

- | | |
|---|---------------------|
| University of Chicago Booth School of Business • Graduate-Student-at-Large | Chicago, IL |
| <ul style="list-style-type: none">Courses: PhD Econometrics, PhD Labor Economics, MBA Health Economics | Jan 2026 - Present |
| University of Virginia • Echols Scholar (Top 5% of College of Arts & Sciences) | Charlottesville, VA |
| <ul style="list-style-type: none">B.A. Economics (Highest Distinction)B.A. Mathematics (Distinction)Thesis: “The Impact of Automation Risk on Unions” (Highest Distinction) | 2021 – 2025 |

WORK EXPERIENCE

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| Federal Reserve Bank of Chicago • Research Assistant (Finance Department) | Chicago, IL |
| <ul style="list-style-type: none">Built and automated a municipal bond market monitoring pipeline by scraping daily bond market data and integrating internal and external datasets.Co-authoring the Municipal Market Tracker, analyzing transaction costs, liquidity, yield movements, and market stress indicators across the municipal bond market.Co-authored FOMC briefing on AI CAPEX leverage, synthesizing firm-level investment trends and financial risks for senior policy audiences.Co-authoring three forthcoming Chicago Fed Letters, documenting methodology and translating quantitative market analysis into clear written outputs. | Jul 2025 - Present |
| Berkeley Research Group • Summer Associate (Economics & Damages) | Washington, D.C. |
| <ul style="list-style-type: none">Programmed a Python application to automate RATS statistical sampling workflows, reducing manual sampling time by 90%.Built 100+ R heatmaps of firm-level U.S. sales data to identify geographic patterns in market concentration and support economic damages analysis.Synthesized quantitative findings into concise figures used in expert witness reports. | Jun – Jul 2024 |
| William & Mary Dept. of Mathematics • Machine Learning (ML) Research Assistant | Williamsburg, VA |
| <ul style="list-style-type: none">Applied Gaussian Process Regression to approximate complex simulation outputs, quantify uncertainty, and improve runtime by roughly 10x.Evaluated model accuracy, robustness, and performance tradeoffs, then presented findings to NASA researchers and W&M mathematics faculty. | Jun – Jul 2023 |
| UVA Economics Teaching Fellow • Principles of Micro & Macro | Charlottesville, VA |
| <ul style="list-style-type: none">Led weekly discussion sections for 40 students, translating economic models, market mechanisms, and quantitative concepts into clear, intuitive explanations for students. | Aug 2023 – 2025 |

AWARDS AND EXPERIENCES

Awards: Hill Award (Given to 1 Econ major with “strong potential”), UVA Alumni Award, Jihoon Rim Scholarship

Projects: SEED Effect Microfinance Data Challenge ([1st place](#)), College Federal Reserve Challenge ([3rd Place](#))