# Jade Ngoc Nguyen

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## Education

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| Ph.D. in Economics, Boston College. *Fields: Applied Micro, Development, Labor* | May 2023 |
| M.A. in Economics, Boston College | Dec 2017 |
| B.A. in Economics (Honors), Brown University | May 2014 |

## Professional Experience

**Lightcast**, *Senior Consultant* — Jul 2023-current
- Perform quantitative analysis by leveraging various data sources to explore, model, and recommend talent strategies
- Communicate results to high-profile clients and stakeholders via presentations and written reports
- Utilize NLP to analyze unstructured data and automate processes in generating custom actionable insights for clients

**Erdős Institute**, *Data Science Boot Camp Fellow* — Sep-Dec 2023
- Led a team to deliver a top-ranked project, which involved building an engine to recommend wines from flavor notes
- Developed NLP and classification models to classify wines based on text embeddings of wine reviews
- Built a pipeline utilizing Large Language Model to systematically evaluate the outputs from various modelling architectures

**Charles River Associates**, *Senior Associate Intern* — Apr-Aug 2021
- Conducted statistical analyses to support antitrust litigation in automobiles, agriculture, pharmaceuticals, retail
- Tasks included: natural experiment, event study, market definition, new competitor detection, customer churning

**Boston College**, *Doctoral Researcher and Instructor* — 2018-2022
- Utilized game theory, Nonparametric Regression, and Panel Data to detect income misreporting and uncover a novel mechanism that improves the screening process of welfare programs in developing countries
- Employed Diff-In-Diff to estimate the impact of tariff cuts on female labor supply and fertility decision
- Research Assistant for Prof. Anant Nyshadham and conducted econometric analyses for the paper "Expectations, Wage Hikes, and Worker Voice: Evidence from a Field Experiment" (The Economic Journal, Jul 2022)
- Taught undergraduate courses in Microeconomic Theory; TA-ed in Statistics Lab, Principles of Economics, Econometrics

**Mahindra Finance**, *Deputy Manager* — 2014-2016
- Built credit default predictive models with Logistic Regression and Time-to-Event Analysis to screen default risks
- Created a web application with R Shiny to host these credit default models, serving ∼1M borrowers in housing market

## Research papers

"Bunching and Learning in Targeting Poverty: Evidence from Vietnam"

"Why does the sex ratio at birth rise? Evidence from Vietnam" (with Yale Ph.D. candidate Nghiem Huynh)

## Other writings

"Should tech companies hire more *"people"* managers?"

## Skills

**Programming:** Python (scikit-learn, numpy, pandas, matplotlib, plotly, BeautifulSoup), SQL, Stata, R, GIS
**Machine Learning**: Regression, Classification, Ensemble Methods (XGBoost, Random Forest), NLP (spacy, sentence-transformers, Faiss, LangChain, RAG), Unsupervised Learning (Principal Component Analysis, KNN clustering)
**Econometrics:** A/B Testing, Natural Experiment, Diff-In-Diff, Panel Data, Longitudinal Analysis, Synthetic Control, Propensity-score Matching, Event Study, Regression Discontinuity, Nonparametric Regression

## Awards and Scholarships

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| Donald J. White Teaching Excellence Award for Graduate Teaching Assistants, Boston College | 2022 |
| Hayek Fund for Scholars from the Institute of Human Studies, George Mason University | 2020 |
| Shelby Davis Full Scholarship, Brown University | 2010-2014 |
| Omicron Delta Epsilon, Economics Department, Brown University | 2014 |