# Thu Pham

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## Education

**Harvard College**                                                                                               CAMBRIDGE, MA
BA in Statistics and Computer Science                                                              May 2023

*Relevant coursework*: Probability$^†$, Causal Inference$^†$, Linear Models, Data Science, Machine Learning, Programming Languages, Algorithms, Economic Development, Microeconomics, Linear Algebra, Multivariable Calculus.

*Awards*: Graduated **cum laude** and with **high departmental honors**. Received Certificate of Distinction in Teaching, Presidential Public Service Fellowship, Lisa Schnitzer and Marshall Tankard Prizes, Spirit of Phillips Brooks House Association Award, John Harvard Scholar designation.

Note. $†$ indicates graduate coursework.

## Technical Skills

`C, C++, CSS, Haver/DLX, HTML, Java, JavaScript, OCaml, Python (Pandas, sklearn), R, Stata, SQL.`

## Experience

**Federal Reserve Bank of New York** | Research Analyst                                 JUL 2024 - PRESENT
- Equitable Growth Studies, under Household and Public Policy in Research and Statistics.
- Assist economists Natalia Emanuel, Rajashri Chakrabarti, and Maxim Pinkovsky with a variety of applied microeconomics research projects on topics including labor, educational outcomes, and household debt.
- Am the main Research Analyst responsible for maintenance and analysis of the Equitable Growth Indicators, which measures macroeconomic disparities across different demographic groups.
- Efficiently analyze a diverse selection of data sets using R, Stata, and Python.
- Clearly communicate quantitative results to economists and larger bank-wide audiences.

**US Fulbright Program** | English Teaching Assistant                                      SEP 2023 - JUN 2024
- Designed and taught English lessons to ten different grade levels (around 500 students).
- Provided homework help and academic enrichment for Romani students as part of a community engagement project to better understand social dynamics in La Rioja, Spain.
- Currently serve as a mentor for Fulbright Lotus, an Asian diversity initiative for Fulbright grantees.

**Harvard College** | Teaching Fellow and Course Assistant                              AUG 2020 - MAY 2023
- Assisted in Introduction to Computer Science, Calculus, Introduction to Probability, and Statistical Computing.
- Co-led section to review material for 10+ students. Helped design short coding exercises to check understanding.
- Held weekly office hours for 20+ students, provided feedback on problem sets.

**Capital One** | Software Engineering Intern                                                       JUN - AUG 2022
- Collaborated with team to create a Python library to track lifecycles of millions of credit bureau data records.
- Assisted in building necessary infrastructure (AWS, BogieFiles, Jenkins CI/CD, DockerFiles) and writing unit tests.

**Summer Urban Program** | Co-Director, Senior Counselor                            MAY 2019 - FEB 2022
- Led 20+ staff in running first-ever hybrid summer programming for 70+ low-income immigrant and refugee youth.
- Fundraised a budget of $40k+, designed COVID-19 models, trained staff, and coordinated camp-side field trips.
- Created hands-on, engaging remote curriculum for students of diverse English levels.

## Research

**Harvard College** | Undergraduate Thesis | Dr. Kelly McConville, Professor Luke Miratrix      AUG 2022 - MAR 2023
- Thesis title: The Importance of Random Effects in Variable Selection.
- Created a multifactor simulation in R to demonstrate the performance of multilevel variable selection methods.
- Used results to draw conclusion about the prevalence of clustering in a large, complex early childhood dataset.
- Wrote 85+ page thesis thesis and presented results to lab group. Received High Honors.

**Harvard College** | Right to Counsel Research | Professor Winnie van Dijk             FEB - DEC 2021
- Research project title: Effects of Eviction and Tenant Protection Policies on Low-Income Households.
- Used R, Stata to analyze case-level data of eviction trials. Used methods such as propensity score matching.
- Read policy briefs to check that assumptions for the model were met.

## Leadership and Activities

**Harvard Square Homeless Shelter** | Supplies Director, Shift Supervisor, Resource Advocate      AUG 2019 - MAY 2023
- Managed master inventory for 25+ guests with a $15k+ budget.
- Co-led weekly evening and overnight shifts of 10+ volunteers.
- Worked with guests to find resources in permanent housing, jobs, food security, and education.

**Harvard Vietnamese Association** | Co-President and Treasurer                       AUG 2019 - APR 2021
- Co-founded Harvard's Southeast Asian Visibility Week across 5+ organizations, with 50+ participants.
- Applied for grants to secure funding for member events.