

# Thu Pham

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Personal Website  
817-709-8293

## Education

### Harvard College

BA in Statistics and Computer Science | GPA: 3.87/4.00

CAMBRIDGE, MA  
May 2023

*Relevant coursework:* Probability<sup>†</sup>, Causal Inference<sup>†</sup>, Linear Models, Data Science, Machine Learning, Programming Languages, Algorithms, Equity in Education, 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, John Harvard Scholar.

Note. <sup>†</sup> 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.
- 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.

### Codman Academy | STEM and Enrichment Intern

JUN - AUG 2022

- Was awarded funding via the Radcliffe Engaged Internship.
- Provided 1:1 academic and advising support to 10+ students enrolled in computer science classes and/or applying to math and science programs.
- Analyzed test scores to provide data-driven recommendations to teachers.

### 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 youth.
- Fundraised a budget of \$40-\$50k, 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 sophisticated variable selection methods on large, complex early childhood education dataset.
- Wrote 85+ page 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 and summarized policy briefs.

## Leadership and Activities

### Harvard Square Homeless Shelter | Supplies Director, Shift Supervisor, Research 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.
- Organized 10+ events and recruited 15+ new members.
- Managed budget and secured funding for member events.