

# MINH-TRI HOANG

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mtrihoang.github.io

## EDUCATION

**Master of Science in Economics**, University of Bonn. 2020 - 2023 (expected)  
Major: Econometrics and Statistics, Microeconomic Theory. Bonn, Germany  
Subjects: Mathematics for Economists (Ph.D.), Econometrics (Ph.D.), Effective Programming Practices for Economists (Ph.D.), Dynamic Methods and Applications (Ph.D.), Computational Statistics (Master).

**Pre-Master's Program in Economics**, Center for Advanced Studies in Economics and Data Science.  
Subjects: Optimization, Microeconomics, Macroeconomics, Econometrics. Hanoi, Vietnam  
GPA: **16.9/20** - Degree classification: Very Good.

**Degree of Bachelor in International Economics**, Vietnam National University.  
Subjects: Advanced Mathematics, Probability and Statistics, Econometrics. Hanoi, Vietnam  
GPA: **3.39/4.0** - Degree classification: Distinction.

## WORK EXPERIENCE

**Research Assistant**, MacroFinance and MacroHistory Lab, University of Bonn. 2021 - Present  
Project: Linking National and Regional Income Inequality: Cross-Country Data Harmonization and Analysis.  
- Applied imputation methods for top-coded/right-censored wages to measure income inequality in Germany.  
- Provided support in data analysis and statistical simulation, required usage of Python, R, and Stata.

**Researcher**, Development and Policies Research Center, Hanoi. 2017 - 2020  
- Created statistical simulations and developed forecasting models to predict Vietnam's macroeconomic indicators.  
- Wrote SQL, R, and Stata programs to conduct web scraping, data analysis, and data visualization.  
- Designed data collection platforms in KoboToolbox and CSPro to manage and monitor 19 surveys in real time.

## PROJECTS

**Computational Statistics** - Grade: **1.0/1.0**. 2022  
- Adopted functional programming in R to set up Monte Carlo simulations and make performance comparison between post-single and post-double selections with Lasso in high-dimensional settings.

**OSE Data Science** - Grade: **1.7/1.0**. 2021  
- Used `statsmodels`, `linearmodels`, and `geopandas` in Python to build econometric models, set up bootstrap simulations, and create choropleth maps to investigate the role of sex ratio in assortative matching in France.

## AWARDS

**IANTA Scholarship for Excellence**, Pre-Master's Program in Economics. 2020  
**The 3rd Prize** of the Student Research Competition, Vietnam National University (top **3%**). 2015  
**Merit-Based Scholarship** of the Yamada Foundation, Japan (top **3%**). 2015

## SKILLS

|                    |   |
|--------------------|---|
| <b>Programming</b> | Stata (advanced), Python (intermediate), R (intermediate), Git (intermediate), Matlab (intermediate), SQL (intermediate), $\text{\LaTeX}$ (intermediate), C/C++ (basic) |
| <b>Languages</b>   | Vietnamese (native), English (fluent), German (basic)   |
| <b>Other</b>       | GRE (Quantitative Reasoning: 166/170)   |