Minh-Tri Hoang

CONTACT

✉ trihoang30ec@gmail.com   🌐 mtrihoang.github.io   in tri-hoang-330911201   🐙 mtrihoang

INTERESTS

Data Science	Econometrics	Statistics	Dynamic Programming	Game Theory

EDUCATION

FORMAL EDUCATION

M.Sc. in Economics, **University of Bonn**	2020 - Present
Research areas: Econometrics and Statistics, Microeconomic Theory	Bonn, Germany
B.A. in International Economics, **Vietnam National University**	
Research areas: Time-Series Econometrics, Macroeconomics	Hanoi, Vietnam

TRAINING

Graz University of Technology and RWTH Aachen University	
Summer Institute in Computational Social Science	Aachen - Graz
Center for Advanced Studies in Economics and Data Science	
Pre-Master's Program in Economics	Hanoi, Vietnam

WORK EXPERIENCE

MacroFinance and MacroHistory Lab, University of Bonn — 2021 - Present
Research Assistant — Bonn, Germany

- Applied imputation methods for top-coded/right-censored wages to measure the wage dispersion in Germany, using the Tobit regressions.
- Provided support in data analysis to the research project "Linking National and Regional Income Inequality: Cross-Country Data Harmonization and Analysis", required usage of Stata and the Sample of Integrated Labour Market Biographies (SIAB) data.

Development and Policies Research Center — 2017 - 2020
Researcher — Hanoi, Vietnam

- Created statistical simulations and developed forecasting models to predict Vietnam's macroeconomic indicators, required usage of R and Bayesian econometrics.
- Wrote Stata programs and R functions to facilitate data analysis and data visualization.
- Conducted data collection and wrote technical reports for consulting projects on child labor, education, gender-based violence, climate change, and economics of tobacco control.

Center for Agricultural Policy — 2016 - 2017
Research Assistant — Hanoi, Vietnam

- Supported in data analysis and developed econometric models to conduct impact evaluation of free trade agreements to Vietnam's agricultural sector.
- Conducted data collection and wrote technical reports for consulting projects on climate change adaptation, poverty reduction, and international trade.

TEACHING EXPERIENCE

Center for Advanced Studies in Economics and Data Science 2020
Instructor Hanoi, Vietnam
- Course title: "Data Analysis with Stata"
- Class size: 10-15 students

STUDENT PROJECTS

Computational Statistics 2022
- Set up Monte Carlo simulations to make performance comparison between post-single and post-double selections with Lasso in high-dimensional settings.
- Created data generating process to verify theoretical statements from the following paper: Alexandre Belloni, Victor Chernozhukov, and Christian Hansen. Inference on Treatment Effects after Selection among High-Dimensional Controls. 2014. The Review of Economic Studies.

OSE Data Science 2021
- Built econometric models and bootstrap simulations in Python to replicate results from the following paper: Abramitzky, Ran, Adeline Delavande, and Luis Vasconcelos. 2011. Marrying Up: The Role of Sex Ratio in Assortative Matching. American Economic Journal: Applied Economics.
- Visualized geographic variation in military mortality rates in France by using `geopandas` in Python.

Stata Programs 2021
- `wordle_stata`: replicate the Wordle game (created and developed by Josh Wardle).
- `multires`: split composite string variables, which contain texts with arbitrary order, to binary variables.

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
Rector's Merit Award of the VNU University of Economics and Business (top 10%)	2014

CERTIFICATES

Python	Python Fundamentals - link
	Intermediate Python - link
	Writing Efficient Code with Pandas - link
	Python Data Science Toolbox (Part 1) - link
	Python Data Science Toolbox (Part 2) - link
SQL	Intermediate SQL - link
	Joining Data in SQL - link
Cloud	Understanding Cloud Computing - link

SKILLS

Languages	Vietnamese (native), English (fluent), German (basic)
Programming	Python (intermediate), SQL (intermediate), Git (intermediate),
	Stata (advanced), R (intermediate), Matlab (basic), LaTeX(basic)