

Minh-Tri Hoang

CONTACT

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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

TRAINING

Graz University of Technology and RWTH Aachen University 2022
Summer Institute in Computational Social Science Aachen - Graz

Center for Advanced Studies in Economics and Data Science 2020
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

IANITA 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)