Minh-Tri Hoang

CONTACT

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RESEARCH INTERESTS

Game Theory   Economics of Information   Econometrics   Computational Statistics

EDUCATION

FORMAL EDUCATION

M.Sc. Economics, **University of Bonn**   2020 - Present
Specialization in Microeconomic Theory, Econometrics and Statistics   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

RESEARCH EXPERIENCE

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

- Worked on topics of income inequality in Germany.
- 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.
- Provided assistance to the research paper The Anatomy of the Global Saving Glut. ECONtribute Discussion Paper No. 161.

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.
- Created data entry forms, designed questionnaires, and wrote technical reports for consulting projects on child labor, education, gender-based violence, climate change, and economics of tobacco control.
- Wrote Stata programs and R functions to facilitate data analysis and data visualization.

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

- Designed questionnaires and wrote technical reports for consulting projects on climate change adaptation, poverty reduction, and international trade.

- Supported in data analysis and developed econometric models to conduct impact evaluation of free trade agreements to Vietnam's agricultural sector.

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 (R) 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 (Python) 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.

SKILLS

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