MANH CUONG NGUYEN

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EDUCATION

University of Glasgow, U.K. 2024 - 2025
Master of Science, Data Analytics for Economics and Finance
- GPA: 17/22
- Relevant Modules: Applied Time Series, Statistical Machine Learning, Deep Learning, Bayesian Data Analysis, Econometrics 2, Text as Data, Microeconometrics.

National Economics University, Vietnam 2020 - 2024
Bachelor of Science, Finance
- GPA: 3.8/4.0 or 8.84/10 (First-class honour)
- Bachelor dissertation: The role of personal financial leverage in real estate transactions in Vietnam supervised by Dr. Anh The Khuc.
- Relevant Modules: Econometrics, Statistics, Calculus, Microeconomics, Macroeconomics, International Economics, Business Finance, International Finance, Investment Principles, Portfolio Analysis, Fixed Income Securities, Derivatives.

SHORT COURSES

Modern Statistics with R, Vietnam Institute for Advanced Studies in Mathematics Dec 2023
Fully-funded by Vietnam Institute for Advanced Study in Mathematics

Research and learning experience program, Vietnam Summer School of Sciences Aug 2023
Fully-funded by Vingroup Innovation Fund and Vietnam Institute for Advanced Study in Mathematics

RESEARCH EXPERIENCE

Research Assistant, National Economics University, Vietnam Jun 2022 -
Supervised by Dr. Anh The Khuc
- Collect and analyse primary data on digital financial services, borrower behaviour, and crowdfunding for behaviour analysis projects.
- Process and interpret secondary data from development banks.
- Prepare materials and write literature review for publications.

PROJECTS

The influence of income diversification on development banks profitability Jan 2025 -
National Economics University
- Preprocess annual financial data from 171 development banks worldwide from 2008 to 2023, including structuring wide-format data into panel data, merging datasets, and imputing missing values.
- Conduct statistical analysis and prepare reports using R.

Group of survival passengers classification Nov 2024
University of Glasgow
- Preprocess the Titanic dataset comprising 891 passengers, addressing missing data and encoding categorical variables.
- Apply logistic regression with cross-validation for hyperparameter tuning to classify survivors and non-survivors based on key features and assess model performance using accuracy metrics, ROC curve, and AUC.
- Python is used to analyse data and build the model.

Assessing the forecast accuracy of Random Walk and ARMA processes Nov 2024

University of Glasgow

- Simulate a dataset of 1,000 observations using Autoregressive Moving Average (ARMA) models, ensuring stationarity and invertibility.
- Apply ARMA and Random Walk models to an in-sample estimation period and conduct one-step-ahead forecasting using rolling and recursive windows.
- Evaluate forecast error metrics on an out-of-sample dataset of 200 observations, demonstrating the performance of the Random Walk model in simulated series.
- Use Matlab for data simulation, model implementation, and performance evaluation.

Impact of activity limitations on health outcomes Nov 2024

University of Glasgow

- Handling missing values in big data of 33,896 observations by backward and forward filling techniques.
- Estimate the causal effect of limitations in daily activities on health outcomes (binary response) with memory test scores as an instrument variable using Fixed Effect, Random Effect and Correlated Random Effect Probit models.
- Apply the optimal model: Correlated Random Effect Probit for all stages with the Control Function approach to ensure robustness in non-linear estimation.
- Conduct the analysis using Stata.

PUBLICATIONS

Anh The Khuc, Phuong Thi Hoai Nguyen, **Manh Cuong Nguyen**, Ha Thu Le, *"Perceived risks of financial misconduct and fintech in crowdfunding of Vietnamese individual investors"*, Emerging Markets Review (2024).

Khuc The Anh, **Nguyen Manh Cuong**, Nguyen Ha Anh, Vu Hoang Anh, Nguyen Quoc Tien, *"Access to credit for real estate transactions in emerging markets - Empirical evidence from Vietnam"*, Journal of International Economics and Management (2024).

ACADEMIC ACHIEVEMENTS

Top 5 in Capco case study competition - Finance consulting, Scottish Universities Nov 2024

Award for Graduating with **Excellent** Academic Results, National Economics University Sep 2024

Scholarship for **Outstanding** High-Class Rankings, National Economics University 2022 - 2024

Second prize (2024, 2023) and **Third prize** (2022) in Scientific Research competition, National Economics University 2022 - 2024

5-Merit Student Award, National Economics University 2022 - 2024

SKILLS

Programming Python, R, Matlab, Stata, EViews, LaTeX
Languages Vietnamese (native), English (fluent)

REFERENCES

Dr. Manh The Nguyen
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College of Technology
National Economics University, Vietnam
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Dr. The Anh Khuc
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National Economics University, Vietnam
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