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 Analytics, 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.

Stock market prediction Mar 2025
University of Glasgow
- Preprocess a dataset containing daily percentage price movements of 442 companies from 05/04/2010 to 31/03/2022, specifically performing data normalization and constructing a data loader.
- Develop a model for forecasting next-day closing returns (01/04/2022) and evaluate its performance using Mean Squared Error (MSE).
- Design a Long Short-Term Memory (LSTM) neural network architecture, performing hyperparameter tuning (e.g., number of hidden layers, neurons count, learning rate) to optimise model performance and achieve the lowest possible MSE.
- Implement model training and evaluation in Python using PyTorch.

Text classification for museum records Feb 2025

University of Glasgow

- Preprocess a multi-class classification dataset consisting of museum records, addressing data cleaning, label noise, feature noise, and tokenization.
- Benchmark text classification performance using prompt-based approaches with large language models, including evaluation of accuracy, macro precision, macro recall, and macro F1 scores.
- Train and evaluate fine-tuned transformer models (e.g., BERT, DistilBERT) on museum records, incorporating hyperparameter tuning for optimised performance.
- Use Python with HuggingFace library to train and deploy the models.

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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