

AHMAD LUQMAN AL HAKIM BIN SHAMSUDIN

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RESEARCH INTEREST

Environmental and energy economics, health economics, micro-econometrics and causal inference, applied artificial intelligence (current focus: natural language processing).

EDUCATION

- Sep 2020 –
Current **The University of Milan, Italy.**
Master of Science in Data Science and Economics (expected grade: 110/110)
- Relevant modules: advanced microeconomics and macroeconomics, patients' needs and healthcare market, advanced multivariate statistics, time series econometrics, causal inference, cybersecurity techniques, text mining and sentiment analysis, machine learning and deep learning, and artificial intelligence.
 - Relevant projects: 1) Unsupervised Learning Analyses on Carbon Dioxide and Other Greenhouse Gases Emissions – An Insight into the Big Picture on Climate Change; 2) The Sentiment Analysis of Depression using Tweets – Classification using Word2Vec Embedding with Neural Networks.
 - Ongoing thesis project: Studying how environmental change affects mental health in the United States, using textual data. (To be completed in May 2023)
- Sep 2015 –
Oct 2018 **The University of Sheffield, United Kingdom.**
Bachelor of Science in Economics (Honours)
- Modules taken covered advanced mathematics and econometrics, intermediate microeconomics, advanced and applied macroeconomics, advanced banking and finance, development economics and health economics.

RESEARCH AND INDUSTRY EXPERIENCE

- Jan 2023 –
Current **Fondazione Eni Enrico Mattei, Italy.**
Junior Researcher, Critical Minerals for the Energy Transition
- Leading activities on interactive dashboards construction, to be published regularly on the organisation's website.
 - Starting a research project (collaboration with Prof. Andrea Bastianin and others) analysing trade risks of components of renewable technologies, using OECD patents data, BACI-CEPII global trade data, etc.
- Sep 2022 –
Dec 2022 **Fondazione Eni Enrico Mattei, Italy.**
Research Intern, Critical Minerals for the Energy Transition
- Collecting data on international trade, climate risks, and economic and institutional risks.
 - Coding R programmes to pre-process and compute various indices such as trade risk and weighted-trade risk.
 - Constructing interactive dashboards using Tableau presenting the spatial

aspects of minerals supply risk and trade complexities.

Apr 2019 –
Oct 2019

Maybank Headquarters, Malaysia.

Trainee Analyst, Credit Risk Model Validation

- Using SAS, SQL and Microsoft Office Suites to access internal databases, performing data quality control and statistical analyses to validate 3 Probability of Default models (i.e., logit; probit) compliant with Basel II requirements.
- Analyses produced contributed to a risk model consolidation by the bank's model development team.

Mar 2019 –
Apr 2019

The Centre of Applied Data Science, Malaysia.

Data Analyst Trainee

- Trained in: Python Programming; R Programming; Linux, Python Scripting and Automation; Introduction to Relational Databases and SQL; Introduction to NoSQL Databases; Statistics; Visualisation and Effective Communication; Big Data and Distributed Computing.

Nov 2018 –
Feb 2019

University of Malaya, Malaysia.

Departmental Research Assistant

- Assisted researchers i.e., Martin Ravallion and PhD researchers in acquiring and pre-processing data to be used for national poverty measurements, which is then presented to national stakeholders (e.g., The World Bank Group, Khazanah Research Institute).
- Contributed to the 125% increase in Malaysia's National Poverty Line through research lobbying to policymakers.

CERTIFICATES AND SKILLS

Other
certificates
or modules

- **Harvard University:** Visualisation in R
- **Microsoft:** Go-To-Market Asia Virtual Experience Programme
- **KPMG:** Data Analytics Consulting Virtual Internship
- **Microsoft AI School:** Getting Started with AI on Azure; Cloud Concepts – Principles of Cloud Computing.
- **Google AI:** Introduction to Machine Learning Problem Framing; the 7 Steps of Machine Learning.
- **DataCamp:** Intermediate R; Intermediate Python; Introduction to Shell for Data Science; Visualisation in R; Intermediate R; Tidyverse; Credit risk modelling in R; Writing efficient code; Time series analysis; Intermediate SQL.

Technologic
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proficiency

- **Programming language:** R, Python and SAS.
- **Database management:** SQL and NoSQL, PostgreSQL, pgAdmin, MongoDB Compass.
- **Other software:** R Studio, Jupyter Lab, EViews, Matlab, Tableau, and SAS EG.

Languages

Bilingual proficiency in English and Malay; basic knowledge of Italian and German.