

EDUCATION

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| National University of Singapore PhD in Digital Financial Technology <i>Core Competencies: Empirical Asset Pricing, Continuous-time Finance, High-Dimensional Econometrics & Deep Learning</i> | (Aug 2024 – May 2028) |
| University of Oxford MPhil in Economics <i>Core Competencies: Asset Pricing Theory, Advanced Real Analysis & Measure Theory, Structural Estimation, Causal Inference</i> | (Oct 2022 – Jun 2024) |
| University of Amsterdam BA (Hons with Distinction) in Liberal Arts and Sciences (Social Sciences) <i>* Completed this 3-year honour program in 2 years</i> | (Sep 2020 – Jul 2022) |
| Rice University Math Camp for Economics PhD Students <i>Intensive training in Real Analysis, Linear Algebra, and Differential Equations.</i> | (May 2020 – Jul 2020) |

RESEARCH INTERESTS

Interests: Empirical Asset Pricing, Demand System Asset Pricing, Financial Machine Learning

SELECTED PUBLICATIONS

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| Market Agent Nexus: Agent-Based Simulation for Financial Forecasting Kelvin J.L. Koa, Yuncong Liu, Zhengxi Qian , Qi Fu, Yunshan Ma, Ke-Wei Huang <i>Submitted to International Conference on Machine Learning (ICML), 2026</i> <i>Proposed a unified framework simulating financial forecasts and investor behavior using real-life 13F disclosures and self-evolving agent loops.</i> |
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WORKING PAPERS

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| Active Dispersion: Does it Measure Differential Information or Short-selling Constraints? (Work in Progress) |
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TEACHING EXPERIENCE

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| National University of Singapore Graduate Teaching Assistant for FT5005: Machine Learning for Finance; <i>Facilitated training and evaluation on the application of neural networks and gradient boosting methods in Empirical Finance.</i> | Jan 2026 – Present |
| University of Oxford Teaching Assistant for Macroeconomics (PPE Programme); Teaching Assistant for Microeconomics (PPE Programme); | 2024 2023 |
| University of Amsterdam Guest Speaker for Artificial Cognition (Undergraduate level); | 2023 – 2025 |

GRANTS, AWARDS, AND HONOURS

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| AIDF Scholarship , Monetary Authority of Singapore | 2024 |
| NUS Research Scholarship , National University of Singapore | 2024 |
| George Webb Medley Endowment Fund , University of Oxford | 2024 |
| Full Scholarship , Amsterdam Scholarship Fund | 2020 |
| Gold Award , UK Maths Trust | 2017 |

INDUSTRY & RESEARCH EXPERIENCE

NExT++ Research Center

(Jun 2024 – Jun 2025)

Deep Learning Researcher (Part-time)

Project: Macro-financial forecasting using Pretrained Foundation Models

Conducted research on Macro-financial forecasting using Pretrained Foundation Models and Boosting algorithms under the NUS AIDF framework.

SKILLS

Coding: Python, L^AT_EX, R, Julia, SQL, Matlab, Dynare, EVViews, C, C++, Stata, SPSS

Language: English (Full Professional), Chinese (Native), Dutch (Professional Working), Japanese (Intermediate)

Interest: Swimming, Cycling, Marathon, Triathlon