

Theo Obadiah Teguh

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EDUCATION

University of Hong Kong

Sep 2025 - Aug 2026

Master of Statistics

Hong Kong SAR

- **Academic Awards** — Belt and Road Scholarship in Statistics and Data Science (Full Tuition, 2025-2026)

University of Hong Kong

Sep 2021 - May 2025

Bachelor of Economics and Finance, 2nd Major in Computer Science

Hong Kong SAR

- **CGPA** — 3.65/4.30 (First Class Honours)
- **Academic Awards** — Dean's Honours List (2021-2025), HKU Entrance Scholarship (Full Tuition, 2021-2025), Chan Tat Chee Memorial Education Abroad Scholarship (2023-2024)
- **Coursework** — Software Engineering, Data Structures & Algorithms, Relational Databases, Computer Hardware & Operating Systems, Computer Networks, Object-Oriented Programming, Functional Programming, Mathematical Finance, Advanced Econometrics, Statistical Learning, Artificial Intelligence, Linear Algebra, Game Theory

PROFESSIONAL EXPERIENCE

Deep Learning Researcher

Jul 2025 - Aug 2025

Shanghai Jiao Tong University

Shanghai, China

- Implemented training scripts for **CNNs** with 19M parameters, achieving 93% accuracy on CIFAR-10. ([more details](#))
- Organized deep learning dependencies such as **PyTorch** and **Lightning** with **Docker** and **Poetry**.

Data Scientist

Jul 2024 - Dec 2024

Oxbridge Economics, LLC

Hong Kong SAR

- Designed and implemented a stratified sampling algorithm with **scikit-learn**, **Pandas**, and **NumPy** with a 56 GB data warehouse, decreasing error by 59% relative to the prior R-squared benchmark. ([more details](#))
- Conducted **feature selection** and trained robust **tree-based models** (XGBoost) with regularization, cross-validation, and Bayesian hyperparameter tuning to estimate geospatial variability of soil carbon.

DevOps Engineer

Mar 2024 - Apr 2024

Vancouver School of Economics, UBC

Vancouver, Canada

- Reduced **software deployment** time by 50% via recursive synchronization of dependencies. ([more details](#))
- Automated **CI/CD** with **Bash** and **GitLab CI** mitigating the risk of error in a project of 30+ developers.

Data Engineer

Jun 2023 - Sep 2023

Faculty of Business and Economics, HKU

Hong Kong SAR

- Developed an automated **ETL pipeline** with **Pandas**, **NumPy**, **ElementTree**, and **RDS MySQL** to process a purchased 35 GB bond holdings **XML** data package from the **Morningstar SFTP** system. ([more details](#))
- Obtained a 95% overall data pipeline speed improvement, reaching top download speeds of 104 Mbps.

ACHIEVEMENTS AND PROJECTS

Citadel Trading Challenge - 1st Place ([more details](#))

Oct 2024

- Brainstormed and solved a collaborative mathematical trading simulation game, achieving 1st place amongst 30 select participants across 6 teams from the University of Hong Kong.

QRT Data Challenge - Top 46% Worldwide ([more details](#))

Oct 2024

- Trained a multilayer perceptron neural network and a gradient-boosted trees classifier to predict football game outcomes. Attained accuracy of up to 50% and competed against 800+ contestants worldwide.

Glassdoor Sentiment Analysis with BERT-Twitter ([more details](#))

Dec 2024

- Set up infrastructure and dependencies on a GPU farm provided by the HKU HPC Laboratory to run HuggingFace models on 3.4+ million Glassdoor employer ratings in a coursework project with Tower Research Capital PMs.

BigTwo Card Game ([more details](#))

Dec 2024

- Designed a multiplayer card game supporting up to four users with Java. Gained a deeper understanding of OOP, threads, concurrency, synchronization, locks, network sockets, and GUI design utilizing Java Swing.

OTHER EXPERIENCE

Teaching Assistant for COMP1117 & COMP2113

Sep 2023 - May 2025

- Responded to Q&A forums on Python control statements, functions, data structures, recursions, and file I/O.
- Led tutorials on Linux and Bash, C and C++ programming, Git version control, and compilation with Makefiles.

TECHNICAL SKILLS

- **Programming Languages** — Python, R, C, C++, Java, Haskell, Bash, SQL
- **Statistical Computing** — Pandas, scikit-learn, PyTorch, Lightning, Hugging Face, ElementTree, Tidyverse
- **Development** — AWS (EC2, S3, RDS, CloudFront, Route 53), Docker, Git, GitLab CI, GDB, Valgrind, Poetry
- **Miscellaneous** — Agile Development, CI/CD, Software Development Life Cycle, Bloomberg Terminal, LaTeX