

Jay Chiehen Liao

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Current M.S. student in CS at National Taiwan University, working on trustworthy ML (GNN fairness, LLM robustness). Prior industry DS experience in FinTech fraud detection. Interdisciplinary background in statistics and psychology. Open to research collaboration and internships.

EDUCATION

National Taiwan University

Taipei, Taiwan

M.S. in Computer Science (Adviser: Prof. Shang-Tse Chen)

Feb 2025 – 2027 (Expected)

- Cumulative GPA over the first 3 semesters: 4.08/4.30
- Focusing on graph neural network fairness, LLM robustness, and trustworthy AI.

National Cheng Kung University

Tainan, Taiwan

M.B.A. in Data Science (Adviser: Prof. Cheng-Te Li)

Sep 2020 – Jun 2022

- Graduation GPA: 4.25/4.30
- Thesis: *Learning Graph Structures from Tabular Data for Downstream Classification Tasks*, awarded by [TOPCO Scientific Co., Ltd.](#) (2023) and [Taiwanese Association for Artificial Intelligence](#) (2022)

M.S. in Data & Business Analytics, Rennes School of Business, France (dual-degree exchange)

Sep 2021 – Apr 2022

B.S. in Psychology & B.B.A. in Statistics (double major)

Sep 2015 – Jun 2020

WORK EXPERIENCE

Fazz (Singaporean FinTech Startup)

Taipei, Taiwan (Hybrid)

Data Scientist

Sep 2022 – Sep 2023

- Built production ML for security on high-volume payment data: real-time anomaly detection, risk alerts, and fraud-monitoring pipelines.
- Improved anomaly-detection precision by **30%** through feature engineering, reducing weekly false-positive transaction alerts from **20+ to under 2**.
- Spearheaded graph analysis (community detection & network visualization) to expose group-abuse rings in micro-loans, reducing manual audit effort by **50%**

National Taiwan University

Taipei, Taiwan

Teaching Assistant (part-time) — Generative AI Safety

Feb 2026 – Jun 2026

- Designed and graded hands-on LLM safety labs on robustness and red-teaming, covering prompt injection, jailbreaks, hallucination detection, and DPO-based alignment.

NetAI Lab, National Cheng Kung University

Tainan, Taiwan

Research & Teaching Assistant (part-time)

Aug 2020 – Aug 2022

- Established graph-ML experiment pipelines for tabular prediction, covering graph construction, representation learning, hyperparameter sweeps, and downstream classification evaluation.

SELECTED PUBLICATIONS

- **ALICE: Evaluating In-Context Learning of Large Audio-Language Models** (co-first author). [arXiv 2026](#).
 - Built LALM inference framework; ran experiments; led results analysis and all figures.
- **TabGSL: Graph Structure Learning for Tabular Data Predictions** (first author). [IEEE BigData 2025](#).
- **GNNs for Tabular Data Learning**. [ACM Computing Surveys](#); tutorials at [IEEE ICDE 2023](#) & [WWW 2023](#).
- **AI for Health: Explainable 14-day unplanned readmission prediction** (co-first author), [BMC 2021](#); medication-adherence prediction (first author), [JIAS 2025](#).

SKILLS

- **Programming & Tools:** Python, R, C, SQL, Git, Linux, PyTorch, PyTorch Geometric
- **Machine Learning:** anomaly detection, representation learning, GBDT, deep learning
- **Graph ML:** graph neural networks, graph structure learning, network analysis
- **LLMs & GenAI:** RAG, evaluation & prompt pipelines, robustness & safety, in-context-learning evaluation
- **Trustworthy & Health AI:** fairness, explainability (SHAP), clinical & behavioral modeling
- **Languages:** English (IELTS 7.5/9, 2023), Mandarin (native)

AWARDS

- **Top 3/859 — E.SUN AI Open Competition** (2021): GBDT + Transformer recommenders (scikit-learn, PyTorch); NDCG@3 0.7260, within 0.0011 of the top-1 score.
- **Top 1/401 — Chunghwa Post Big Data Competition** (2019): led GBDT modeling on large-scale postal data; system projected to cut failed deliveries ~65%