

Wei-Lun Hsiao

Taipei, Taiwan — b13902049@csie.ntu.edu.tw

Education

National Taiwan University

B.S. in Computer Science and Information Engineering

Taipei, Taiwan

Expected Jun 2029

Honors & Competitive Background

- ICPC Asia Taichung Regional Contest — Gold Medal
- Codeforces — Master
- Math Olympiad Selection Camp Participant

Technical Skills

Languages: Python, C, C++, Bash

ML / Data: NumPy, pandas, scikit-learn, PyTorch, XGBoost, CatBoost

AI / RL: Neural networks, PCA, autoencoders, reinforcement learning, offline RL, AI agents, LLM workflows

Tools: Linux, Git, Docker, Jupyter, VS Code

Core: Algorithms, data structures, mathematical reasoning, statistical thinking, research implementation

Experience

WorldQuant International Quant Championship (IQC)

2026 – Present

Competitor / LLM-Assisted Alpha Research

Remote

- Built a DeepSeek-assisted workflow on WorldQuant BRAIN to generate, mutate, filter, and document alpha expressions
- Used LLM prompting to transform market intuition and factor templates into structured alpha candidates without disclosing proprietary alpha details
- Evaluated candidate factors using WorldQuant BRAIN metrics, including Sharpe, fitness, turnover, correlation, and robustness across market settings

Embodied AI Lab Research Exploration

2025 – Present

National Taiwan University

Taipei, Taiwan

- Reproducing offline reinforcement learning baselines, focusing on goal-conditioned RL and decision-making from fixed datasets
- Reading and implementing components from offline RL / contrastive RL papers, including dataset construction, policy learning, and evaluation pipelines

Selected Projects

AI Agent for Interactive Exhibition System — YTP ExhiBeat

2026

- Repository: github.com/yujuan0215/ytp-exhibeat
- Developed the AI Agent component for user-facing interactive guidance in an exhibition system
- Designed the agent workflow connecting user input, contextual information, and system actions

Relevant Coursework

- **Artificial Intelligence / Machine Learning / Generative AI:** search, A*, adversarial search, MDPs, reinforcement learning, Bayesian networks, neural networks, unsupervised learning, context engineering, LLM inference acceleration, Flash Attention, KV Cache, self-correction, and self-improving workflows
- **FinTech and Blockchain Finance:** market liquidity, market-making, arbitrage, DeFi, smart contracts, robo-advisors, and blockchain finance