

HSIANG-CHUN (NATHAN) WANG

📞 0930216676 ✉ nathan.wang.company@gmail.com 💻 Hsiang-Chun Wang 🏠 Homepage 🌐 wangxchun 📅 Feb. 5, 2000

EDUCATION

National Taiwan University (NTU)

M.S. in Communication Engineering

09/2022 – 06/2024

Taipei, Taiwan

Shanghai Jiao Tong University (SJTU)

B.S. in Information Engineering

09/2018 – 08/2022

Shanghai, China

ACADEMIC & PROFESSIONAL HIGHLIGHTS

- Specialized in reinforcement learning and deep learning during Master's studies. Spearheaded research efforts resulting in two published papers at top-tier ML conferences (**NeurIPS**, **ICML**, **ICLR**), with poster presentations in Vienna and Vancouver. Secured support from the NSTC international travel grant. Quantified impact, with publications cited over 30 times to date.
- Won the 2024 TAAI **Master's Thesis Award** and the **Best Master's Thesis Award** from the Graduate Institute of Communication Engineering, NTU. Invited to deliver talks on research experience and contributions.
- Collaborated actively in the machine learning research community, **served as a reviewer** for ICLR 2025 and NeurIPS 2025.
- Received high recognition for engineering training in **industry settings**, including multi-threading, interprocess communication, socket programming, internationalization (I18N), and defensive programming.

WORK EXPERIENCE

UC Capital

AI Researcher

10/2024 – present

Taipei, Taiwan

- Spearheaded the research and development of advanced machine learning techniques for various aspects of stock trading, resulting in 2 patent filings and improved model accuracy by **15%** on average across historical trading scenarios.
- Utilized SQL queries and Python scripts to process and validate over **10.8TB of trading data**; optimized data cleaning and feature engineering pipelines, reducing processing time by **60%** and significantly accelerating downstream modeling workflows.

RESEARCH PROJECTS

Diffusion-Reward Adversarial Imitation Learning

Leading Author, [Paper](#), [Project Page](#), [Code](#)

04/2023 – 08/2024

Neural Information Processing Systems (NeurIPS) 2024

- Spearheaded and coordinated a collaborative research initiative with a senior NVIDIA researcher, ensuring goal alignment and streamlined execution across teams.
- Implemented adaptive research strategies and proactively sought feedback, demonstrating resilience in the face of setbacks; accelerated progress enabled milestone completion **4 months ahead of schedule**.

Diffusion Model-Augmented Behavioral Cloning

Leading Author, [Paper](#), [Project Page](#), [Code](#)

06/2022 – 05/2024

International Conference on Machine Learning (ICML) 2024

- Spearheaded the identification of innovative research contributions, coordinated the team to devise solutions.
- Expanded the lab's research directions, initiating **5 extended studies—2 of which** were accepted by top-tier venues or integrated into ongoing industrial collaborations—consistently driving innovation and impact in the field.

EXTRACURRICULAR PROJECTS & LEADERSHIP

Autonomous Driving Team, Algorithm Group

Algorithm Team Leader, [Competition](#)

08/2019 – 12/2020

Shanghai, China

- Spearheaded the design and implementation of autonomous racing algorithms, enabling high-speed navigation and real-time obstacle avoidance in compliance with safety and competition rules.
- Collaborated with hardware engineers to streamline system integration, reducing lap times by **30%**.
- Selected as team lead for technical excellence; supervised junior members and conducted iterative testing to optimize performance.

RoboMaster Robotics Team, Algorithm Group, Second Place in 2019 National Competition 12/2018 – 09/2019

Algorithm Team Member, [Competition](#), [Code](#)

Shanghai, China

- Contributed to designing, building, and programming robots for tasks like projectile targeting, obstacle navigation, and combat.
- Assisted in optimizing robot performance, enhancing efficiency in competitive tasks.

University Debate Team

Debater and Peer Coach

09/2018 – 02/2020

Shanghai, China

- Trained rigorously for the Freshman Cup, mastering debate formats, argumentation techniques, and case structuring.
- Selected to represent the department in university-wide debate competitions based on performance and progress.
- Mentored **8+ junior debaters**, designing and delivering **3+ training workshops** on rebuttal strategies and critical reasoning.

SKILLS/QUALIFICATIONS

Programming

Python, C/C++, LaTeX

Machine Learning

PyTorch, TensorFlow, HuggingFace, Scikit-learn, Weights and Biases

Database

SQL Server, MariaDB

Development Tools

Git, Docker, Linux, VS Code, Jupyter, CI/CD (GitHub Actions, GitLab CI), Make, CMake

Interests

Snowboard, Lego, Tennis