

JASMINE (HSIN-LU) YEH

Taipei, Taiwan

✉ [gmail](#) [in linkedin](#) [github](#)

EDUCATION

National Taiwan University

Taipei, Taiwan

Bachelor of Science in Computer Science and Information Engineering

Sep. 2023 - Present

- **Note:** Third year student, GPA: 3.97/4.3
- **Courses taken/attending:** ML, Computer Architecture, Parallel Programming, Deep Learning in Computer Vision etc.

RESEARCH PROJECTS

Accelerating Exascale Climate Emulator - presentation

ELSA Lab, National Taiwan University

Advisor: Prof. Chun-Yi Lee

Sep. 2025 - present

- Optimizing a high-performance climate emulator (based on Abdulah et al., 2024) to scale on supercomputing clusters.
- Achieved 119x improvement in energy efficiency, equivalent to saving 5056 metric tons of CO₂.
- Collaborated with NVIDIA mentors during the NCHC Open Hackathon to optimize CuBLAS operations, tune CUDA streams, and reduce mixed-precision calculation overhead.

WareVLM: Warehouse Efficient VLM with 600M Parameters - poster

DLCV coursework, National Taiwan University

Advisor: Prof. Frank Wang

Sep. 2025 - Dec. 2025

- Developed a 600M-parameter vision language model pipeline that aims to answer warehouse dataset spatial relationship questions as the final project of *Deep Learning in Computer Vision* course.
- Experimented with different RGB/D ratios, tested answer-focused learning by prioritizing keywords in answers, then integrated chain-of-thought inference to boost result accuracy to 83.6%.
- Explored fusing point clouds features with 3D centroid information to provide more in-depth spatial context.

Crustaceous Snaps Signal Marine Environmental Change - poster

MEIL Lab, Academia Sinica

Advisor: Dr. Tzu-Hao Lin

Dec. 2021 - Feb. 2023

- Conducted a two-year independent research project under the Marine Ecoacoustics and Informatics Lab (MEIL) analyzing marine soundscapes to monitor environmental changes. Earned the second award at Taiwan International Science Fair and selected as the representative for 2023 MILSET Expo-Sciences International in Mexico.
- Utilized Python toolboxes to implement supervised and unsupervised source separation techniques for in-depth analysis of sound data alongside environmental variables, and visualized comprehensive results through MATLAB.

EXPERIENCE

Associate Software Developer Intern

New Taipei, Taiwan

Google LLC

Jun. 2025 - Sep. 2025

- Architected and deployed an AI-powered connectivity troubleshooting tool for Pixel devices, reducing issue resolution time by 10% for 100+ daily active engineers.
- Consistently end-to-end testing the tool to ensure smooth user experience and proactively fixing what can be improved.
- Used Google Agent Development Kit (ADK) for the agent framework to automate root cause analysis, integrating it with internal search infrastructure for logical issue deduction. Assisted building a Chrome extension written in Angular.js as the user interface.

President, NTU Climate Action Club

Taipei, Taiwan

National Taiwan University

Feb. 2024 - Present

- Organized biweekly research-driven events, including lectures with climate researchers and discussions linking academic sustainability research with student-led initiatives.
- Worked with student council to launch a reusable lunchbox program, integrating an online borrow-lend system and securing corporate sponsorships for expansion.
- Currently building an online platform to collect and share interviews from sustainability professionals, enabling students to explore sustainability career paths and industry insights. Conducted 15+ interviews spanning over fields such as climate finance, tech, and sciences. Collaborated with 5+ universities from Taiwan, Hong Kong, Thailand, and Mexico.

TECHNICAL SKILLS

Programming Languages: C, C++, Python

Tools & Technologies: MATLAB, Git, LaTeX, SQL

Languages: Mandarin (Native), English (IELTS: 8.5/9.0)