

Yu-Hong Shen

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Education

National Yang Ming Chiao Tung University

B.S. COMPUTER SCIENCE (GRADUATED)

Hsinchu, Taiwan

Sep. 2021 - Jun. 2025

- Overall GPA: 4.2/4.3, Rank: 17/168
- Relevant Courses: Algorithm, Operating System, System Administration, Network Administration, Cloud Native, Deep Learning, Reinforcement learning, Microprocessor.
- Conducted research & published a paper in Human-centered Intelligent Systems Lab.

Publications

Mitigating Cross-Modal Distraction and Ensuring Geometric Feasibility via Affordance-Guided and Self-Consistent MLLMs for Task Planning in Instruction-Following Manipulation

YU-HONG SHEN*, CHUAN-YU WU*, YI-RU YANG, YEN-LINT TAI, YI-TING CHEN

- CoRL 2025 Workshop iCare (oral). [Project Page](#).
- Proposed a method addressing cross-modal distraction and geometric feasibility of Multimodal LLMs for robotic task planning in food preparation.

Internship

TSMC

IT BSID DevOps ENGINEER

Hsinchu, Taiwan

July. 2025 - Aug. 2025

- Designed and implemented both frontend and backend services using Java and Next.js.
- Deployed containerized services to a Kubernetes cluster using Azure DevOps pipelines.

ASML Holding N.V.

D&E SOFTWARE ENGINEER INTERN

Taipei, Taiwan

Jan. 2025 - Now

- Conducted a comprehensive survey on Java 8 to 11 migration using OpenRewrite.
- Leveraged existing tools and implemented an automated performance analysis pipeline.

CloudMile Inc.

TECHNICAL ACCOUNT MANAGER INTERN

Taipei, Taiwan

July. 2024 - Dec. 2024

- Participated in PoCs to validate cloud solutions for clients, enhancing technical problem-solving skills.
- Designed and implemented innovative ideas for clients, successfully deploying them to production.

Projects

Multispeaker Transcription

MEICHU HACKATHON ANDROID ACCESSIBILITY PROJECT

2023

Python, Pytorch, Kotlin, Java

- **3rd** place in Meichu Hackthon Google group - Android accessibility. [Link](#).
- Implemented an application that identify the speaker, transcript, and display the result on the cellphone.

Multi-Objective Denoising Diffusion Policy Optimization

DEEP LEARNING COURSE PROJECT

2024

Python, Pytorch

- Integrated DDPO and PGMORL in a two-stage process to approximate optimal trade-offs. [Link](#).
- Evaluated with various objectives, including compressibility, prompt-image alignment, and aesthetic quality.

Certificates

TOEIC Total: 965 / Reading: 485 / Listening: 480

GEPT High-intermediate Total: 225 / Reading: 117 / Listening: 108

GCP Profession Cloud Architect Certified during Internship at CloudMile.