

➤ Personal Information

Name : Yong-Xiang (Ryan) Chang

Birthday : 2004/05/06

E-mail : ryan2004006@gmail.com

Contact number : +886 968412637

LinkedIn :www.linkedin.com/in/yong-xiang-chang-5b9909288

GitHub : <https://github.com/Atypical281795>

➤ Education

Chung Shan Medical University

Department of Medical Informatics

Taichung, Taiwan

Sep.2022-June.2026

➤ Work Experience

AI Software Engineer Intern, Industrial Technology Research Institute

- Define task for Capsule Endoscopy using image enhancement AI method.
- Operate and train with HVI-CIDNet strategy to fix low-light image enhancement.
- Check on VLMs and deploy for classified the motivation task.

Mar.2025-Aug.2025

Database System Analysis and Design Teaching Assistant, Chung Shan Medical University

- Pre-class review and presentation each class.
- Assign after-class exercises and review them in detail.

Mar.2025-Jun.2025

Technical Summer Intern, IdeaBus

- Develop smart watche and transmit monitoring data back to internal.
- Smart watch software UI design and deployment.

July.2024-Aug.2024

➤ Leadership Experience

Glows.ai 1st Campus Ambassador, technical group leadership

- Planning technical workshop. (LLMs, cloud service within up to 80 attendees)
- Demo use Jenus 1.3B model with Glows.ai platform to show generating steps.
- Served as technical group leader, promoting cloud service and AI project strategy.

Dec.2024-Jun.2025

General Affairs for Medical Informatics Student Association Department

- Participate in and lead all activities organized by the society.
- Responsible and record for deciding revenue and expenditure strategies.

Sep.2024-Jun.2025

➤ Skills

- Programming language : Python, C/C++, Java
- Deep Learning Framework : Pytorch, Tensorflow, Keras
- Data Analysis Tool : Matplotlib, OpenCV, Numpy, SciPy, Excel
- Data visualize : Power BI, Python Package
- Front/Back End : HTML5, CSS, JavaScript, MySQL, MSSQL, PHP, Flask

➤ Published Paper

EURASIP Journal on Audio Speech and Music Processing 2025(SCIE paper, IF=1.9)

Entropy-based Steganography and Compression for Audio Signals in Network Transmission

Author : Shou-Tsung Chen, Shu-Yi Tu, Che-Cheng Liu, Jasper Wu, Yong-Xiang Chang, Yi-Ju Lin, Yun-Peng Zhang, Ren-Jie Ye

2025 Taiwan Conference on Software Engineering(SEAT conference, oral presentation)

Educational Assistive Voice Chatbot for Nursing Internship

Author : Che-Cheng Liu, Yong-Xiang Zhang, Shou-Tsung Chen

2023 International Conference on Fuzzy Theory and Its Applications(IEEE conference, oral presentation)

Cognitive-Inclusive Communication: An Integrated Text and Graphics Generator for Improved Readability

Author : Yong-Xiang Zhang, Pei-Xin Ye, Chiun-Li Chin, Guan-Tsen Liu, Su-Juan Chen, Zhong-Ting Zheng, Geng-Kai Wong, Pei-Hsin Chang, Zhe-Cheang Liu, Pei-Chen Huang

➤ Competition

Name of the competition	Division	Ranking
2024 National College Smart Innovation and Cross-domain Integrated Creation Competition	Digital Sustainability	Excellent work
2023 Sustainability Hackathon	Intelligent Symbiosis	First Place
	Flip Home Service	First Place
2023 National Electronic Design Creative Competition	Electronics	Second Place
	Information and Communications	Third Place
	Smart Big Data and Mobile App	Excellent work