Chun-Hung (Jim) Chen

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Education

National Yang Ming Chiao Tung University, *Taiwan*   *2019 - Present*

- Doctor of Medicine, minor in Computer Science
- Physician Scientific Research Program

Research

- **Ongoing Projects**
  - **Multi-modality+Time Series:** Developing a multi-modal time series model that predicts future clinical images for patients with glaucoma based on past medical history and treatments administered
  - **Time Series:** Accurate prediction of vascular access stenosis for patients under hemodialysis
- **Research Interests**
  - Representation learning, time-series forecasting, and multi-modality for clinical data
  - Applications in diagnosis, prescription, and disease progression

Selected Publications

[2] Predicting Longitudinal Visual Field Progression with Class Imbalanced Data.
Ling Chen, ***Chun-Hung Chen***, Wei Wang, Da-Wen Lu and Vincent S. Tseng.
IEEE Journal of Biomedical and Health Informatics (2025).

[1] FastRx: Exploring Fastformer and Memory-Augmented Graph Neural Networks for Personalized Medication Recommendations.
Nguyen Minh Thao Phan, Ling Chen, ***Chun-Hung Chen*** and Wen-Chih Peng.
ACM Transactions on Intelligent Systems and Technology (2024).

Experience

Division of Cardiology, Taipei Veterans General Hospital   *2023 - Present*
Research Assistant (Principal Investigator: Prof. Chin-Chou Huang)

Institute of Hospital and Health Care Administration, National Yang Ming Chiao Tung University   *2023 - Present*
Student Researcher (Supervisors: Prof. Ling Chen and Prof. Vincent Shin-Mu Tseng)

Institute of Clinical Medicine, National Yang Ming Chiao Tung University   *2023 - Present*
Student Researcher (Supervisors: Prof. Chih-Yu Yang and Prof. Oscar Kuang Sheng Lee)

Institute of Biomedical Engineering, National Cheng Kung University   *2016 - 2018*
Student Researcher (Supervisor: Prof. Wen-Tai Chiu)

Honors & Awards

- Future Tech Award, National Science and Technology Council   *2024*
- College Student Research Scholarship, National Science and Technology Council, Taiwan   *2024, 2025*