

# 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

## Publications

- [3] 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).
- [2] 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).
- [1] Artificial Intelligence-Based Screening for Blood Pressure Phenotypes of White-Coat and Masked Hypertension in Outpatient Settings.  
Ming-Hui Hung, **Chun-Hung Chen**, Yu-Hsuan Tseng, and Chin-Chou Huang.  
Circulation 150, A4145524-A4145524 (2024).

## Experience

Division of Cardiology, Taipei Veterans General Hospital

2023 - Present

- *Research Assistant* (Principal Investigator: Prof. Chin-Chou Huang) [1]

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) [2], [3]

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