

CHIN-JOU LI

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EDUCATION

Carnegie Mellon University

Master of Science in Intelligent Information Systems, Language Technologies Institute | GPA: 3.9/4.0

- Selected Coursework: Advanced NLP, Speech Recognition and Understanding

Pittsburgh, PA

Dec 2025

National Taiwan University

Bachelor of Science, Computer Science and Information Engineering | GPA: 3.99/4.30

- Selected Coursework: Algorithm Design and Analysis, ML, Applied DL, NLP

Taipei, Taiwan

June 2024

SKILLS

Technical skills Python, PyTorch, Linux, C/C++

Languages Chinese (Native), English (Fluent), French (Intermediate)

RESEARCH EXPERIENCE

ChangeLing Lab, Carnegie Mellon University

Graduate Researcher

- Advised by Prof. David Mortensen
- Exploring phonetic-based speech modeling and inclusive speech recognition

Pittsburgh, PA

Sep 2024 - Present

Intelligent Agents Lab, National Taiwan University

Undergraduate Researcher

- Advised by Prof. Jane Yung-Jen Hsu
- Handled natural language data in the Trustworthy AI Dialogue Engine (TAIDE) project

Taipei, Taiwan

Oct 2022 - June 2024

Biomedical Acoustic Signal Processing Lab, Academia Sinica

Research Assistant

- Advised by Prof. Yu Tsao and Dr. Jen-Cheng Hou
- Researched audio-visual speech enhancement and audio-visual speaker diarization

Taipei, Taiwan

July 2022 - Feb 2024

Taipei Veterans General Hospital

Research Assistant

- Evaluated face transformation in seizure dataset for privacy protection
- Investigated action recognition through transformer for predicting seizure types

Taipei, Taiwan

Jan 2023 - Dec 2023

PUBLICATIONS

Epileptic Seizure Classification with Patient-Level and Video-Level Contrastive Pretraining

EMBC 2024

Chin-Jou Li, Chien-Chen Chou, Yen-Cheng Shih, Li-Chuan Kuo, Yu-Te Wang, Aileen McGonigal, Hsiang-Yu Yu, Jen-Cheng Hou, Yu Tsao

Deep Complex U-Net with Conformer for Audio-Visual Speech Enhancement

Interspeech 2024 AVSEC Workshop

Shafique Ahmed, Chia-Wei Chen, Wenze Ren, Chin-Jou Li, Ernie Chu, Jun-Cheng Chen, Amir Hussain, Hsin-Min Wang, Yu Tsao, Jen-Cheng Hou

Face swapping in seizure videos for patient deidentification

Epilepsy Research

Chin-Jou Li, Jen-Cheng Hou, Chien-Chen Chou, Yen-Cheng Shih, Stephane Dufau, Po-Tso Lin, Yu Tsao, Aileen McGonigal, Hsiang-Yu Yu

AI-based face transformation in patient seizure videos for privacy protection

MCP: Digital Health

Jen-Cheng Hou, Chin-Jou Li, Chien-Chen Chou, Yen-Cheng Shih, Si-Lei Fong, Stephane Dufau, Po-Tso Lin, Yu Tsao, Aileen McGonigal, Hsiang-Yu Yu

SELECTED PROJECTS

- ChangeLing Lab, Carnegie Mellon University** Pittsburgh, PA
Phonetic Speech Foundation Model *Sep 2024 - Present*
- Building a phonetic speech foundation model, co-advised by Prof. Shinji Watanabe
- ChangeLing Lab, Carnegie Mellon University** Pittsburgh, PA
Data Augmentation for Pathological Speech *Sep 2024 - Present*
- Investigating voice conversion on cross-lingual dysarthric speech
- Speech Recognition and Understanding, Carnegie Mellon University** Pittsburgh, PA
Training Decoder-Only ASR with Long Context *Oct 2024 - Dec 2024*
- Explored techniques for handling extended context with limited computing resource
 - Applied RoPE and cache retrieval to an ASR system
- Intelligent Agents Lab, National Taiwan University** Taipei, Taiwan
Trustworthy AI Dialogue Engine (TAIDE) *Mar 2023 - June 2024*
- Visualized dataset diversity via Elasticsearch and Kibana
 - Constructed LLM hallucination benchmarks in Traditional Chinese
- Biomedical Acoustic Signal Processing Lab, Academia Sinica** Taipei, Taiwan
EGO4D Audio-Visual Speaker Diarization Challenge 2023 *March 2023 - May 2023*
- Established a pipeline of face detection and tracking, active speaker detection, and audio embeddings
 - Coordinated the teams in charge of each module
 - Enhanced accuracy on validation data by 5% and diarization error rate by 3%
- Biomedical Acoustic Signal Processing Lab, Academia Sinica** Taipei, Taiwan
1st COG-MHEAR AVSE Challenge *July 2022 - Sep 2022*
- Denoised audio by incorporating visual information through a deep complex convolution recurrent network
 - Outperformed baseline model with a 40.7% and 23.8% improvement of the PESQ and the STOI metrics

LEADERSHIP EXPERIENCE

- Natural Language Processing, Carnegie Mellon University** Pittsburgh, PA
Teaching Assistant *Jan 2025 - Present*
- Assisting in CMU's II-4II/6II NLP course
- Network Administration and System Administration Team, National Taiwan University** Taipei, Taiwan
Teaching Assistant / DNS Group Member *Sep 2022 - June 2024*
- Monitored network stability for the CS department
 - Guided new members and students in training courses
- Open Culture Foundation** Taipei, Taiwan
Intern *Sep 2023 - Jan 2024*
- Translated articles about open technology, digital rights, and internet freedom
 - Facilitated execution of events and exchanges