

CHIN-JOU LI

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EDUCATION

Carnegie Mellon University

Pittsburgh, PA

Master of Science in Intelligent Information Systems, Language Technologies Institute

Dec 2025

- Selected Coursework: Advanced NLP, Speech Recognition and Understanding

National Taiwan University

Taipei, Taiwan

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

June 2024

- Chinese-English Translation and Interpretation Program
- Selected Coursework: Algorithm Design and Analysis, ML, Applied DL, NLP

SKILLS

Technical skills Python, Linux, C/C++

Languages Chinese (Native), English (Fluent), French (Intermediate / B2)

RESEARCH EXPERIENCE

ChangeLing Lab, Carnegie Mellon University

Pittsburgh, PA

Graduate Researcher

Sep 2024 - Present

- Researching speech recognition with a phonetic/phonological focus

Intelligent Agents Lab, National Taiwan University

Taipei, Taiwan

Undergraduate Researcher

Oct 2022 - June 2024

- Handled natural language data in the Trustworthy AI Dialogue Engine (TAIDE) project

Biomedical Acoustic Signal Processing Lab, Academia Sinica

Taipei, Taiwan

Research Assistant

July 2022 - Feb 2024

- Achieved 3rd place in COG-MHEAR AVSE Challenge 2022

- Proposed a multimodal model for AVD task of EGO4D Challenge 2023

Taipei Veterans General Hospital

Taipei, Taiwan

Research Assistant

Jan 2023 - Dec 2023

- Evaluated face transformation in seizure dataset for privacy protection

- Investigated action recognition through transformer for predicting seizure types

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, Wenzhe 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

LEADERSHIP EXPERIENCE

Natural Language Processing, Carnegie Mellon University

Pittsburgh, PA

Teaching Assistant

Jan 2025 - Present

- Incoming TA!

Path to AI Research, Carnegie Mellon University

Mentor

- Mentoring students through 1-on-1 meetings for research paths and academic guidance

Network Administration and System Administration Team, National Taiwan University

Teaching Assistant / DNS Group Member

- Monitored network stability for the CS department
- Guided new members and students in training courses

French (I) and French (II), National Taiwan University

Teaching Assistant

- Facilitated learning in a class of 40 students; graded homework and tests

Open Culture Foundation

Intern

- Translated articles about open technology, digital rights, and internet freedom
- Facilitated execution of events and exchanges

SELECTED PROJECTS

Speech Recognition and Understanding, Carnegie Mellon University

Training Decoder-Only ASR with Long Context

- Explored techniques for handling extended context with limited computing resources
- Applied RoPE and cache retrieval to an ASR system

Intelligent Agents Lab, National Taiwan University

Trustworthy AI Dialogue Engine (TAIDE)

- Visualized dataset diversity via Elasticsearch and Kibana
- Constructed LLM hallucination benchmarks in Traditional Chinese

Biomedical Acoustic Signal Processing Lab, Academia Sinica

EGO4D Audio-Visual Speaker Diarization Challenge 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%

Advanced Deep Learning, National Taiwan University

Hahow Course Purchase Prediction Challenge

- Implemented a purchase prediction system by ensembling IR, ML, and statistical models
- Ranked 3rd place among 80 groups

Biomedical Acoustic Signal Processing Lab, Academia Sinica

1st COG-MHEAR AVSE Challenge

- 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

Pittsburgh, PA

Sep 2024 - Present

Taipei, Taiwan

Sep 2022 - June 2024

Taipei, Taiwan

Sep 2022 - June 2024

Taipei, Taiwan

Sep 2023 - Jan 2024

Pittsburgh, PA

Oct 2024 - Dec 2024

Taipei, Taiwan

Mar 2023 - June 2024

Taipei, Taiwan

March 2023 - May 2023

Taipei, Taiwan

Nov 2022 - Jan 2023

Taipei, Taiwan

July 2022 - Sep 2022