Chin-Jou Li (She/Her/Hers)

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Education

Carnegie Mellon University (CMU) Admitted for Fall 2024
Master of Science in Intelligent Information Systems, Language Technologies Institute *Pittsburgh, PA, USA*

National Taiwan University (NTU) Sep 2020 - June 2024 (exp.)
Bachelor of Science, Computer Science and Information Engineering *Taipei, Taiwan*

- GPA: 3.95/4.30
- Chinese-English Translation and Interpretation Program enrolled

Research Experience

Biomedical Acoustic Signal Processing Lab, Academia Sinica July 2022 – Feb 2024
Research Assistant *Taipei, Taiwan*

- Achieved 3rd place in COG-MHEAR AVSE Challenge 2022
- Proposed a multimodal model for AVD task of EGO4D Challenge 2023

Intelligent Agents Lab, NTU Oct 2022 – Present
Research Student *Taipei, Taiwan*

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

Taipei Veterans General Hospital Jan 2023 – Dec 2023
Research Assistant *Taipei, Taiwan*

- 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
***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*

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*

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

Leadership Experience

NTU CSIE Network Administration and System Administration Team, NTU Sep 2022 – Present
DNS Group Member *Taipei, Taiwan*

- Monitored network stability for the CS department
- Established PowerDNS system in place of BIND DNS
- Guided new members and students in training courses

French (I) and French (II), NTU Sep 2022 – Present
Teaching Assistant *Taipei, Taiwan*

- Facilitated learning in a class of 40 students; graded homework and tests
- Collaborated with other TAs from France
- Attained Best Actress and Best Play in the inter-university theater competition

Open Culture Foundation Sep 2023 – Jan 2024
Intern *Taipei, Taiwan*

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

Skills

Technical skills Python, Linux, C/C++

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

Projects

Trustworthy AI Dialogue Engine (TAIDE) | *NLP, ML* iAgent, Mar 2023 - Present

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

Seizure Type Prediction Through Action Recognition | *CV, ML* VGHtpe, Jul 2023 - Jan 2024

- Investigated suitable modules for epileptic seizure video classification according to clinical symptoms
- Applied contrastive pretraining to adapt transformer-based action recognition model for our task

Face Transformation in Clinical Seizure Videos for Privacy Protection | *CV, ML* VGHtpe, Jan-Oct 2023

- Surveyed the performance of face transformation methods to protect patient privacy
- Evaluated different face-swapping models' effects on clinical data

EGO4D Audio-Visual Speaker Diarization Challenge 2023 | *Multimodal, ML* BioASP, March-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%

Hahow Course Purchase Prediction Challenge | *NLP, IR, ML* Advanced Deep Learning, Fall 2022

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

1st COG-MHEAR AVSE Challenge | *Multimodal, ML* BioASP, Jul-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