Chen-An Li

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Summary

A Ph.D. student in National Taiwan University advised by **Prof. Hung-yi Lee**, specializing in speech and language processing, including **speech retrieval**, **large audio-language models**, and **self-supervised speech models**. First-author publications at ACL, ICASSP, and Interspeech, with broader contributions at ICLR, EMNLP, ASRU and SLT. Experienced reviewer for NeurIPS, ICLR, and ICML.

Education

Ph.D. in Graduate Institute of Communication Engineering
09/2024 – Present

National Taiwan University (NTU) Taipei, Taiwan

GPA: **4.3/4.3** | Supervisor: Hung-yi Lee

B.S. in Computer Science and Information Engineering
09/2019 – 06/2023

National Taiwan University (NTU) Taipei, Taiwan

GPA: **4.0/4.3** | Supervisor: Hung-yi Lee, Yun-Nung (Vivian) Chen

Experience

Research Intern
Open Cloud Infrastructure Software Center, ASUS 06/2023 – 11/2023

- Investigated performance degradation and adaptation dynamics in the continual pre-training of aligned large language models.

Institute of Information Science, Academia Sinica 07/2022 – 08/2022

Mentors: Prof. Hsin-Min Wang

- Studied the design and performance of automatic speech recognition systems under low-resource conditions.

Research Student
Speech Processing and Machine Learning Laboratory, NTU 10/2021 – 09/2024

Mentors: Prof. Hung-yi Lee

- Explored the use of SSL speech models for prosody-related tasks, proposed an ensemble method for embedding fusion, and examined vulnerabilities to model extraction attacks.

Machine Intelligence and Understanding Laboratory, NTU 09/2022 – 07/2023

Mentors: Prof. Yun-Nung (Vivian) Chen

- Developed a framework for language understanding enhanced by visual cues.

Machine Discovery and Social Network Mining Lab, NTU 09/2021 – 08/2022

Mentors: Prof. Shou-De Lin

- Developed a machine learning method to effectively address concept drift.

Conference / Journal / Workshop

INSPIRE: A Benchmark for Instruction-Aware Speech Retrieval. **Interspeech 2026 Long Paper**
Chen-An Li, Hung-yi Lee.

Hearing the Order: Investigating Selection Bias in Large Audio-Language Models. **Interspeech 2026**
Yu-Xiang Lin, Chen-An Li*, Sheng-Lun Wei, Po-Chun Chen, Hsin-Hsi Chen, Hung-yi Lee.*

All That Glitters Is Not Audio: Rethinking Text Priors and Audio Reliance in Audio-Language Evaluation. **Interspeech 2026**
Leonardo Haw-Yang Foo, Chih-Kai Yang*, Chen-An Li, Ke-Han Lu, Hung-yi Lee.*

AdaSearch: Balancing Parametric Knowledge and Search in Large Language Models via Reinforcement Learning. **EMNLP 2026**
Tzu-Han Lin, Wei-Lin Chen, Chen-An Li, Hung-yi Lee, Yun-Nung Chen, Yu Meng.

BreezyVoice: Adapting TTS for Taiwanese Mandarin with Enhanced Polyphone Disambiguation-Challenges and Insights. **ISCSLP 2026**
Chan-Jan Hsu, Yi-Cheng Lin, Chia-Chun Lin, Wei-Chih Chen, Ho Lam Chung, Chen-An Li, Yi-Chang Chen et al.

When Silence Matters: The Impact of Irrelevant Audio on Text Reasoning in Large Audio-Language Models. **ICASSP 2026**
Chen-An Li, Tzu-Han Lin, Hung-yi Lee.

Transferring textual preferences to vision-language understanding through model merging. **ACL 2025**
Chen-An Li, Tzu-Han Lin, Yun-Nung Chen, Hung-yi Lee.

Dynamic-superb phase-2: A collaboratively expanding benchmark for measuring the capabilities of spoken language models with 180 tasks. **ICLR 2025**
Chien-yu Huang, Wei-Chih Chen, Shu-wen Yang, Andy T Liu, Chen-An Li, Yu-Xiang Lin et al..

DogeRM: Equipping Reward Models with Domain Knowledge through Model Merging. **EMNLP 2024**
Tzu-Han Lin, Chen-An Li, Hung-yi Lee, Yun-Nung Chen.

Unsupervised multilingual dense retrieval via generative pseudo labeling. **EACL Findings 2024**
Chao-Wei Huang, Chen-An Li, Tsu-Yuan Hsu, Chen-Yu Hsu, Yun-Nung Chen.

Visually-Enhanced Phrase Understanding. **ACL Findings 2023**
Tsu-Yuan Hsu, Chen-An Li*, Chao-Wei Huang, Yun-Nung Chen.*

CONVERSER: Few-shot conversational dense retrieval with synthetic data generation. **SIGDIAL 2023**
Chao-Wei Huang, Chen-Yu Hsu, Tsu-Yuan Hsu, Chen-An Li, Yun-Nung Chen.

Towards general-purpose text-instruction-guided voice conversion. **ASRU 2023**
Chun-Yi Kuan, Chen-An Li, Tsu-Yuan Hsu, Tse-Yang Lin, Ho-Lam Chung, Kai-Wei Chang, Shuo-Yiin Chang, Hung-yi Lee.

On the utility of self-supervised models for prosody-related tasks. **SLT 2022, Best Paper Award**
Guan-Ting Lin, Chi-Luen Feng*, Wei-Ping Huang**, Yuan Tseng**, Tzu-Han Lin**, Chen-An Li**, Hung-yi Lee, Nigel G Ward.*

The efficacy of self-supervised speech models for audio representations. **PMLR 2022**
Tung-Yu Wu, Tsu-Yuan Hsu*, Chen-An Li*, Tzu-Han Lin*, Hung-yi Lee.*

Preprint

A preliminary exploration with gpt-4o voice model. arXiv:2502.09940
Yu-Xiang Lin, Chih-Kai Yang, Wei-Chih Chen, Chen-An Li, Chien-yu Huang, Xuanjun Chen, Hung-yi Lee.

Building a taiwanese mandarin spoken language model: A first attempt. arXiv:2411.07111
Chih-Kai Yang, Yu-Kuan Fu, Chen-An Li, Yi-Cheng Lin, Yu-Xiang Lin, Wei-Chih Chen, Ho Lam Chung et al..

Examining forgetting in continual pre-training of aligned large language models. arXiv:2401.03129
Chen-An Li, Hung-Yi Lee.

Improving cascaded unsupervised speech translation with denoising back-translation. arXiv:2305.07455
Yu-Kuan Fu, Liang-Hsuan Tseng*, Jiatong Shi, Chen-An Li, Tsu-Yuan Hsu, Shinji Watanabe, Hung-yi Lee.*

Model extraction attack against self-supervised speech models. arXiv:2211.16044
Tsu-Yuan Hsu, Chen-An Li*, Tung-Yu Wu, Hung-yi Lee.*

Reviewer

2025 NeurIPS, WWW, Machine Learning, TASLP
2026 ICLR, ICML (Gold Reviewer), ARR (May, August), SLT
2027 ICLR

Activities

System Administrator
09/2024 – 03/2026
Speech Processing and Machine Learning Laboratory, NTU

- Managed a Slurm-based high-performance computing environment spanning 5 nodes and over 30 GPUs.

Teaching Assistant
02/2022 – 06/2022, 02/2025 – 06/2025
Machine Learning Course (EE5184), NTU
Instructor: Prof Hung-yi Lee

- Supported course delivery for 700+ students, including assignments, grading, and academic support.

Teaching Assistant
09/2021 – 01/2022
Machine Learning Course (CSIE5043), NTU
Instructor: Prof Hsuan-Tien Lin

- Supported course instruction for a class of 300+, contributing to assignment design, grading, and academic support.

Skills

Programming & Tools: C/C++, Python, Shell Script, Linux, Slurm, Git, Emacs

Language: Chinese (Native), English (Fluent)