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Yi-Cheng Lin

Junior Researcher

 yclin201220

RESEARCH INTEREST

Large Audio Language Model (LALM), Self-Supervised Learning (SSL), Speech Quality Assessment, Evaluation, Fairness, Speech Emotion Recognition (SER).

EDUCATION

Bachelor of Electrical Engineering , <i>National Taiwan University, Taipei, Taiwan</i>	2018.09 - 2023.06
• Double major in Trans-disciplinary Bachelor Program	2021.09 - 2023.06
• Minor in Department of Physics	
• Completed Social Design, Leadership, Quantum Computation and Quantum Information Program	
• GPA: 4.15/4.3, Ranking: 25/189	
M.S. in Communication Engineering , <i>National Taiwan University, Taipei, Taiwan</i>	2023.09 - 2025.01
• GPA: 4.22/4.3, Ranking: 2/14	
• Transferred to Ph.D. program in Spring 2025	
Ph.D. student in Communication Engineering , <i>National Taiwan University, Taipei, Taiwan</i>	2025.02 - Present
• Selected courses: Reinforcement Learning, Deep Learning for Human Language Processing	

SELECTED PUBLICATIONS

Please see the [Google Scholar](#) for full publications, including 31 conference papers and 1 journal. [†]equal contribution.

FAIRNESS & BIAS IN SPEECH

On the social bias of speech self-supervised models. 	INTERSPEECH 2024
<i>Yi-Cheng Lin, Tzu-Quan Lin, Hsi-Che Lin, Andy T. Liu, Hung-yi Lee</i>	Best Paper Runner-Up
Listen and Speak Fairly: A Study on Semantic Gender Bias in Speech Integrated LLMs.  	SLT 2024
<i>Yi-Cheng Lin, Tzu-Quan Lin, Chih-Kai Yang, Ke-Han Lu, Wei-Chih Chen, Chun-Yi Kuan, Hung-yi Lee</i>	
Spoken Stereoset: On Evaluating Social Bias Toward Speaker in Speech Large Language Models.  	SLT 2024
<i>Yi-Cheng Lin[†], Wei-Chih Chen[†], Hung-yi Lee</i>	
EMO-Debias: Benchmarking Gender Debiasing Techniques in Multi-Label SER. 	ASRU 2025
<i>Yi-Cheng Lin, Huang-Cheng Chou, Yu-Hsuan Li Liang, Hung-yi Lee</i>	
CO-VADA: A Confidence-Oriented Voice Augmentation Debiasing Approach for Fair SER. 	ASRU 2025
<i>Yi-Cheng Lin[†], Yun-Shao Tsai[†], Huang-Cheng Chou, Hung-yi Lee</i>	
Mitigating Subgroup Disparities in Multi-Label Speech Emotion Recognition: A Pseudo-Labeling and Unsupervised Learning Approach. 	INTERSPEECH 2025
<i>Yi-Cheng Lin, Huang-Cheng Chou, Hung-yi Lee</i>	

SPEECH EMOTION RECOGNITION

Improving SER in Under-Resourced Languages via Speech-to-Speech Translation with Bootstrapping Data Selection. 	ICASSP 2025
<i>Yi-Cheng Lin[†], Hsi-Che Lin[†], Huang-Cheng Chou, Hung-yi Lee</i>	
Meta-PerSER: Few-Shot Listener Personalized SER via Meta-learning.  	INTERSPEECH 2025
<i>Liang-Yeh Shen[†], Shi-Xin Fang[†], Yi-Cheng Lin, Huang-Cheng Chou, Hung-yi Lee</i>	
MI-Fuse: Label Fusion for Unsupervised Domain Adaptation with Closed-Source LALM. 	ICASSP 2026
<i>Hsiao-Ying Huang[†], Yi-Cheng Lin[†], Hung-yi Lee</i>	

SPEECH & MUSIC REPRESENTATION LEARNING

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Distilling a speech and music encoder with task arithmetic.

INTERSPEECH 2025

Yi-Cheng Lin[†], Fabian Ritter-Gutierrez[†], Jui-Chiang Wei, Jeremy H.M. Wong, Eng Siong Chng, Nancy F. Chen, Hung-yi Lee

Multi-Distillation from Speech and Music Representation Models.

ASRU 2025

Yi-Cheng Lin[†], Jui-Chiang Wei[†], Fabian Ritter-Gutierrez, Hung-yi Lee

A correlation-permutation approach for speech-music encoders model merging.

ASRU 2025

Fabian Ritter-Gutierrez, Yi-Cheng Lin, Jeremy HM Wong, Hung-yi Lee, Eng Siong Chng, Nancy F Chen

LARGE AUDIO LANGUAGE MODEL & TTS EVALUATION

Do You Hear What I Mean? Quantifying the Instruction-Perception Gap in Instruction-Guided Expressive Text-To-Speech Systems.

ICASSP 2026

Yi-Cheng Lin, Huang-Cheng Chou, Tzu-Chieh Wei, Kuan-Yu Chen, Hung-yi Lee

DeSTA2.5-Audio: Toward General-Purpose LALM with Self-Generated Cross-Modal Alignment.

TASLP

Ke-Han Lu, Zhehuai Chen, Szu-Wei Fu, ..., Yi-Cheng Lin, ..., Yu-Chiang Frank Wang, Hung-yi Lee

SPEECH SSL & CODEC BENCHMARKING

Efficient Training of Self-Supervised Speech Foundation Models on a Compute Budget.

SLT 2024

Andy T. Liu, Yi-Cheng Lin, Haibin Wu, Stefan Winkler, Hung-yi Lee

Codec-superb: An in-depth analysis of sound codec models.

ACL Findings 2024

Haibin Wu, Yi-Cheng Lin, Ho-Lam Chung, Yuan-Kuei Wu, Xuanjun Chen, ... Kai-Wei Chang, Alexander Liu, Hung-yi Lee

MULTI-AGENT LLM

Creativity in LLM-based Multi-Agent Systems: A Survey.

EMNLP 2025

Yi-Cheng Lin[†], Kang-Chieh Chen[†], Zhe-Yan Li[†], Tzu-Heng Wu[†], Tzu-Hsuan Wu[†], Kuan-Yu Chen[†], Hung-yi Lee, Yun-Nung Chen

HONORS

Irving T. Ho Memorial Scholarship	2023.01
Garmin Scholarship Award	2024.09
NSTC Graduate Research Fellowship	2025.02
INTERSPEECH 2025 Travel grant	2025.09
Foundation for the Advancement of Outstanding Scholarship Travel grant	2025.11
ICASSP 2026 Travel grant	2026.02

EXPERIENCE

Google Cloud AI - Student Researcher 2026.07-now

- Design conversational speech AI evaluation pipeline for Gemini.

Microsoft Taiwan - Research & Development Intern 2022.09-2023.08

- Upgrade current geolocation prediction system from rule-based to ML-based, improve accuracy by 2%, and decrease prediction time by 10%.

ASRU AudioMOS Challenge 2025 - Participant 2025.05-2025.07

- Winning first place on 13/16 metrics in Track 1 - MOS prediction for text-to-music systems [paper].
- Winning top 3 places on 17/32 metrics in Track 2 - Audiobox-aesthetics-style prediction [paper].
- Winning first place on 5/8 metrics in Track 3 - MOS prediction for speech in high sampling frequencies [paper].

Reviewer 2024.01-now

- Conferences: ARR 24 Feb, Oct, ARR 25 Feb, May, InterSpeech 25, ASRU 25, ACML 25, ICLR 25, ROCLING 25, ICASSP 26
- Journal: IEEE TASLP, IEEE Trans. Affect. Comput.