

Tzu-Han Lin

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Education

- 2023 – Present  **National Taiwan University, Taiwan**
M.S. in Graduate Institute of Networking & Multimedia
- 2019 – 2023  **National Taiwan University, Taiwan**
B.S. in Computer Science & Information Engineering

Work Experience

- Jun 2024 – Oct 2024  **Machine Learning Scientist Intern**, Appier, Taipei, Taiwan
- Developed an LLM-based system to automate application assessment.
- Jul 2022 – Jul 2023  **Research & Development Intern**, Microsoft, Taipei, Taiwan
- Analyzed backend data to evaluate and optimize recommendation algorithms.

Research Experience

- Jun 2025 – Present  **Prof. Yu Meng's Lab**, University of Virginia
REMOTE RESEARCH INTERN
Advisor: Prof. Yu Meng
Research Topics: RL for Search Agents [8]
- Sep 2023 – Present  **Machine Intelligence & Understanding Lab**, National Taiwan University
MASTER'S STUDENT
Advisor: Prof. Yun-Nung Chen
Research Topics:
 - Alignment in LLMs [4] and Vision-Language Models [2]
 - Knowledge-Editing in LLMs [3]
 - Evaluation in Audio-Language Models [1]
- Oct 2021 – Dec 2023  **Speech Processing & Machine Learning Lab**, National Taiwan University
UNDERGRADUATE RESEARCH STUDENT
Advisor: Prof. Hung-yi Lee
Research Topics:
 - Evaluation in Speech SSL Models [7, 6]
 - Parameter-Efficient Fine-Tuning (PEFT) [5]

Research Publications

In Proceedings

- 1 Chen-An Li, **Tzu-Han Lin**, and Hung-yi Lee. "When Silence Matters: The Impact of Irrelevant Audio on Text Reasoning in Large Audio-Language Models". In: *2026 IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*. 2026. ⚡ URL: <https://arxiv.org/abs/2510.00626>.
- 2 Chen-An Li, **Tzu-Han Lin**, Yun-Nung Chen, and Hung-yi Lee. "Transferring Textual Preferences to Vision-Language Understanding through Model Merging". In: *Proceedings of the 63rd Annual Meeting of the Association for Computational Linguistics (Volume 2: Short Papers)*. Ed. by Wanxiang Che, Joyce Nabende, Ekaterina Shutova, and Mohammad Taher Pilehvar. Vienna, Austria: Association for Computational Linguistics, July 2025, pp. 923–943. ISBN: 979-8-89176-252-7. ⚡ DOI: 10.18653/v1/2025.acl-short.72.

- 3 Cheng-Hsun Hsueh*, Paul Kuo-Ming Huang*, **Tzu-Han Lin***, Che Wei Liao*, Hung-Chieh Fang*, Chao-Wei Huang, and Yun-Nung Chen†. “Editing the Mind of Giants: An In-Depth Exploration of Pitfalls of Knowledge Editing in Large Language Models”. In: *Findings of the Association for Computational Linguistics: EMNLP 2024*. Ed. by Yaser Al-Onaizan, Mohit Bansal, and Yun-Nung Chen. Miami, Florida, USA: Association for Computational Linguistics, Nov. 2024, pp. 9417–9429. DOI: 10.18653/v1/2024.findings-emnlp.550.
- 4 **Tzu-Han Lin**, Chen-An Li, Hung-yi Lee, and Yun-Nung Chen†. “DogeRM: Equipping Reward Models with Domain Knowledge through Model Merging”. In: *Proceedings of the 2024 Conference on Empirical Methods in Natural Language Processing*. Ed. by Yaser Al-Onaizan, Mohit Bansal, and Yun-Nung Chen. Miami, Florida, USA: Association for Computational Linguistics, Nov. 2024, pp. 15506–15524. DOI: 10.18653/v1/2024.emnlp-main.868.
- 5 **Tzu-Han Lin***, How-Shing Wang*, Hao-Yung Weng**, Kuang-Chen Peng**, Zih-Ching Chen, and Hung-Yi Lee†. “PEFT for Speech: Unveiling Optimal Placement, Merging Strategies, and Ensemble Techniques”. In: *2024 IEEE International Conference on Acoustics, Speech, and Signal Processing Workshops (ICASSPW)*. 2024, pp. 705–709. DOI: 10.1109/ICASSPW62465.2024.10625957.
- 6 Guan-Ting Lin*, Chi-Luen Feng*, Wei-Ping Huang**, Yuan Tseng**, **Tzu-Han Lin****, Chen-An Li***, Hung-yi Lee†, and Nigel G. Ward†. “On the Utility of Self-Supervised Models for Prosody-Related Tasks”. In: *2022 IEEE Spoken Language Technology Workshop (SLT)*. 2023, pp. 1104–1111. DOI: 10.1109/SLT54892.2023.10023234.
- 7 Tung-Yu Wu*, Tsu-Yuan Hsu*, Chen-An Li*, **Tzu-Han Lin***, and Hung-yi Lee†. “The Ability of Self-Supervised Speech Models for Audio Representations”. In: *HEAR: Holistic Evaluation of Audio Representations (NeurIPS 2021 Competition)*. Ed. by Joseph Turian, Björn W. Schuller, Dorien Herremans, Katrin Kirchoff, Paola Garcia Perera, and Philippe Esling. Vol. 166. Proceedings of Machine Learning Research. PMLR, Dec. 2022, pp. 90–110. URL: <https://proceedings.mlr.press/v166/wu22a.html>.

Preprints

- 8 **Tzu-Han Lin**, Wei-Lin Chen, Chen-An Li, Hung-yi Lee, Yun-Nung Chen, and Yu Meng. *AdaSearch: Balancing Parametric Knowledge and Search in Large Language Models via Reinforcement Learning*. Under review. Dec. 2025. arXiv: 2512.16883 [cs.CL]. URL: <https://arxiv.org/abs/2512.16883>.

Teaching Experience

Sep 2025 – Dec 2025	Applied Deep Learning , Fall 2025 TEACHING ASSISTANT - In charge of homework 1 – BERT for traditional Chinese QA	Instructor: Prof. Yun-Nung Chen
Feb 2024 – Jun 2024	Foundations of Artificial Intelligence , Spring 2024 <i>Shang-Tse Chen & Prof. Yun-Nung Chen</i> TEACHING ASSISTANT - In charge of course final project – AI system for Texas hold'em game	Instructors: Prof. Yun-Nung Chen
Sep 2023 – Dec 2023	Applied Deep Learning , Fall 2023 TEACHING ASSISTANT - In charge of homework 1 – BERT for traditional Chinese QA	Instructor: Prof. Yun-Nung Chen
Feb 2022 – Jun 2022	Machine Learning , Spring 2022 TEACHING ASSISTANT - Designed homework 4 – Speaker Recognition with Self-Supervised Learning Speech Models	Instructor: Prof. Hung-yi Lee

Projects

- Dec 2023 – Feb 2024 **TAME – LLM for Taiwanese Culture across Diverse Domains**  [GitHub](#)
- Curated synthetic datasets for multi-turn instruction-following.
- Achieved state-of-the-art results on traditional Mandarin NLP benchmarks.
- Oct 2021 – Dec 2021 **HEAR 2021 NeurIPS Challenge - Holistic Evaluation of Audio Representations**  [GitHub](#);  [Official Website](#);  [Introduction Slide](#)
- Developed feature extraction methods for high-quality audio representations.
- Ranked among the top teams, outperforming participants from Logitech, NYU, Xiaomi, and others.
- Delivered a lightning talk at the NeurIPS 2021 Competition Track and NeurIPS Taiwan Meetup 2021.
- Results published in the Proceedings of Machine Learning Research (PMLR) [7].

Awards

- Jul 2025 **ACL 2025 Travel Grant**
Awarded by the Foundation for the Advancement of Outstanding Scholarship (FAOS), Taipei, Taiwan.
- Jun 2025 **Selected for The Top PhD Cultivation Program Fellowship (Declined)**
Selected by the College of Electrical Engineering and Computer Science, National Taiwan University.
- Jan 2025 **Selected for NSTC Graduate Research Fellowship (Declined)**
Selected by the National Science and Technology Council (NSTC), Taipei, Taiwan.
- Nov 2024 **EMNLP 2024 Travel Grant**
Awarded by the Association for Computational Linguistics and Chinese Language Processing (ACLCLP).
- Apr 2024 **ICASSP 2024 Travel Grant**
Awarded by the National Science and Technology Council (NSTC), Taipei, Taiwan.
- Jun 2023 **Prof. Liang-Jia Chen Memorial Scholarship**
Awarded by National Taiwan University for academic excellence.