

# Chao-Wei Huang

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**EDUCATION**      **National Taiwan University**      2018/09 - 2024/08  
Ph.D. , Computer Science and Information Engineering (CSIE)  
Advisor: Yun-Nung (Vivian) Chen

**National Taiwan University**      2014/09 - 2018/06  
B. S., Computer Science and Information Engineering (CSIE)

**RESEARCH INTERESTS**

- Speech Language Models
- Speech Recognition and Translation
- Factuality and Reliability of LLMs
- Conversational Systems

**WORKING EXPERIENCES**      **Meta**      2025/09 - Present  
*Research Scientist*  
Research on on-device speech language models, including pretraining discrete and continuous speech encoders using vector quantization and multilingual modeling.

**Meta**      2023/07 - 2023/11  
*Research Scientist Intern, FAIR*  
Research on integrating speech representations into decoder-only LLMs for end-to-end speech translation. We examined architectural designs and fine-tuning techniques and achieved SOTA performance on speech-to-text translation benchmarks.

*Research Intern (AI)*      2022/09 - 2023/01  
Research on evaluating and improving translation accuracy of named entities. We found that nearest neighbor methods improve named entity translation quality.

**Amazon**      2021/07 - 2021/10  
*Applied Science Intern, AlexaAI*  
Research on transfer learning of dialogue state tracking with locale differences and ASR robustness.

*Applied Science Intern, AlexaAI*      2020/03 - 2020/06  
Organization of DSTC9 track 1, focusing on knowledge selection and knowledge-grounded response generation in dialogue systems.

**SELECTED PUBLICATIONS**

[1] [Chao-Wei Huang](#), Yun-Nung Chen. FactAlign: Long-form Factuality Alignment of Large Language Models. In *Proceedings of The 2024 Conference on Empirical Methods in Natural Language Processing (EMNLP 2024)*, Miami, USA, November 12–16, 2024. [\[Code\]](#) [\[Preprint\]](#)

[2] [Chao-Wei Huang](#), Hui Lu, Hongyu Gong, Hirofumi Inaguma, Ilia Kulikov, Ruslan Mavlyutov, Sravya Popuri. Investigating Decoder-only Large Language Models for Speech-to-text Translation. In *Proc. of INTERSPEECH 2024 (Interspeech 2024)*, Kos Island, Greece, September 1-5, 2024. [\[Paper\]](#)

- [3] Yen-Shan Chen, Jing Jin, Peng-Ting Kuo, Chao-Wei Huang, Yun-Nung Chen. LLMs are Biased Evaluators But Not Biased for Fact-Centric Retrieval Augmented Generation. In *Findings of the Association for Computational Linguistics: ACL 2025*, Vienna, Austria, Jul 27 - Aug 1, 2025. [\[Code\]](#) [\[Paper\]](#)
- [4] Chao-Wei Huang, Yun-Nung Chen. PairDistill: Pairwise Relevance Distillation for Dense Retrieval. In *Proceedings of The 2024 Conference on Empirical Methods in Natural Language Processing (EMNLP 2024)*, Miami, USA, November 12–16, 2024. [\[Code\]](#) [\[Paper\]](#)
- [5] Yu-Min Tseng, Yu-Chao Huang, Teng-Yun Hsiao, Wei-Lin Chen, Chao-Wei Huang, Yu Meng, Yun-Nung Chen. Two Tales of Persona in LLMs: A Survey of Role-Playing and Personalization. In *Findings of the Association for Computational Linguistics: EMNLP 2024*, Miami, USA, November 12–16, 2024. [\[Project Page\]](#) [\[Paper\]](#)
- [6] Chao-Wei Huang, Tsu-Yuan Hsu, Chen-An Li, Chen-Yu Hsu, Yun-Nung Chen. Unsupervised Multilingual Dense Retrieval via Generative Pseudo Labeling. In *Proceedings of the 18th Conference of the European Chapter of the Association for Computational Linguistics (EACL 2024)*, Malta, March 17-22, 2024. [\[Code\]](#) [\[Paper\]](#)
- [7] Chao-Wei Huang, Chen-Yu Hsu, Tsu-Yuan Hsu, Chen-An Li, Yun-Nung Chen. CONVERSER: Few-Shot Conversational Dense Retrieval with Synthetic Data Generation. In *Proceedings of the 24th Annual Meeting of the Special Interest Group on Discourse and Dialogue (SIGDIAL 2023)*, Prague, Czechia, September 11-15, 2023. [\[Code\]](#) [\[Paper\]](#)
- [8] Chao-Wei Huang\*, Shang-Chi Tsai\*, and Yun-Nung Chen. Modeling Diagnostic Label Correlation for Automatic ICD Coding. In *Proceedings of the 2021 Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies (NAACL 2021)*, Online, June 6-11, 2021. [\[Code\]](#) [\[Paper\]](#)
- [9] Chao-Wei Huang and Yun-Nung Chen. Learning Spoken Language Representations with Neural Lattice Language Modeling. In *Proceedings of The 58th Annual Meeting of the Association for Computational Linguistics (ACL 2020)*, Seattle, USA, July 5-10, 2020. [\[Code\]](#) [\[Paper\]](#) [\[Slides\]](#)
- [10] Shang-Yu Su, Chao-Wei Huang, and Yun-Nung Chen. Towards Unsupervised Language Understanding and Generation by Joint Dual Learning. In *Proceedings of The 58th Annual Meeting of the Association for Computational Linguistics (ACL 2020)*, Seattle, USA, July 5-10, 2020. [\[Code\]](#) [\[Paper\]](#)
- [11] Chao-Wei Huang and Yun-Nung Chen. Learning ASR-Robust Contextualized Embeddings for Spoken Language Understanding. In *Proceedings of 2020 IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP 2020)*, Barcelona, Spain, 2020. [\[Code\]](#) [\[Paper\]](#) [\[Slides\]](#) [\[Presentation\]](#)
- [12] Chao-Wei Huang and Yun-Nung Chen. Adapting Pretrained Transformer to Lattices for Spoken Language Understanding. In *Proceedings of 2019 IEEE Workshop on Automatic Speech Recognition and Understanding (ASRU 2019)*, Sentosa, Singapore, December 14-18, 2019. [\[Code\]](#) [\[Paper\]](#)

## HONORS & AWARDS

**1<sup>st</sup> Place, Formosa Grand Challenge - Talking to AI** 2019/03  
 A challenge held by the Ministry of Science and Technology. We developed a spoken question answering system that is capable of answering questions in spoken content. We won the 1<sup>st</sup> place overall among over 100 teams.

## TECHNICAL SKILLS

Python, C++, PyTorch, Jax, Distributed Training

## LANGUAGES

**Mandarin** (native)  
**English** (professional)