

Chao-Wei Huang

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EDUCATION	INSTITUTION	DEGREE	PERIOD
	National Taiwan University	Ph.D. , Computer Science and Information Engineering (CSIE)	2018/09 - 2024/08
		Advisor: Yun-Nung (Vivian) Chen	
	National Taiwan University	B. S., Computer Science and Information Engineering (CSIE)	2014/09 - 2018/06
RESEARCH INTERESTS	<ul style="list-style-type: none">• Speech Language Models• Speech Recognition and Translation• Factuality and Reliability of LLMs• Conversational Systems		
WORKING EXPERIENCES	<p>Meta <i>Research Scientist</i> 2025/09 - Present Research on on-device speech language models, including pretraining discrete and continuous speech encoders using vector quantization and multilingual modeling.</p> <p>Meta <i>Research Scientist Intern, FAIR</i> 2023/07 - 2023/11 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.</p> <p>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.</p> <p>Amazon <i>Applied Science Intern, AlexaAI</i> 2021/07 - 2021/10 Research on transfer learning of dialogue state tracking with locale differences and ASR robustness.</p> <p>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.</p>		
SELECTED PUBLICATIONS	<p>[1] Chao-Wei Huang, Yun-Nung Chen. FactAlign: Long-form Factuality Alignment of Large Language Models. In <i>Proceedings of The 2024 Conference on Empirical Methods in Natural Language Processing (EMNLP 2024)</i>, Miami, USA, November 12–16, 2024. [Code] [Preprint]</p> <p>[2] Chao-Wei Huang, Hui Lu, Hongyu Gong, Hirofumi Inaguma, Ilya Kulikov, Ruslan Mavlyutov, Sravya Popuri. Investigating Decoder-only Large Language Models for Speech-to-text Translation. In <i>Proc. of INTERSPEECH 2024 (Interspeech 2024)</i>, Kos Island, Greece, September 1-5, 2024. [Paper]</p>		

[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

1st 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 1st place overall among over 100 teams.

TECHNICAL SKILLS

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

LANGUAGES

Mandarin (native)

English (professional)