

Langchu Huang

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Education

Southern University of Science and Technology <i>B.E. in Computer Science and Technology</i>	<i>Sept. 2022 – May 2026 (expected)</i>
◦ GPA: 3.8 / 4.0 ◦ Advisor: Prof. Yang Xu ◦ Coursework: AI(A-), ML(A), DL(A-), NLP(A+) ◦ Research Interests: Music Information Retrieval, Natural Language Processing, Symbolic Music	

Experience

Undergraduate Research <i>Southern University of Science and Technology</i>	<i>Sept. 2024 – Dec. 2024</i>
Explored the impact of paralinguistic signals in dialogue datasets on language model performance across tasks.	
Research Intern <i>North Carolina State University</i>	<i>Jul. 2025 – Aug. 2025</i>
Conducted research in the ARoS Lab under Prof. Lobaton. Designed a data collection protocol and built a dual-modal cough-speech dataset using both air and bone conduction microphones. Developed a dual-path contrastive learning architecture for robust cough-speech detection. 	
Exchange Student <i>Hong Kong University of Science and Technology</i>	<i>Aug. 2025 – Dec. 2025</i>
Developing a multitrack symbolic music codec for LMs, aiming to design compact discrete representations to enhance symbolic music understanding and generation. The work explores residual vector quantization, interleaved ABC notation, and multimodal alignment for controllable, musically coherent outputs.	
Research Intern <i>TME Lyra Lab, Tencent Music Entertainment</i>	<i>Nov. 2025 – Mar. 2026</i>
Working on symbolic music related research.	

Publications

Investigating the Representation of Backchannels and Fillers in Fine-tuned Language Models 	<i>Sept. 2025 ACL (under review)</i>
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Yu Wang, Leyi Lao, **Langchu Huang**, Gabriel Skantze, Yang Xu, Hendrik Buschmeier

This work investigates how fine-tuning strategies enhance language models' ability to represent and generate backchannels and fillers in dialogue. Empirical analyses demonstrate improved clustering quality and more human-like language generation, showcasing the potential for adapting general LMs into pragmatic-aware conversational models.

Awards

◦ Academic Scholarship & Outstanding Student Award , SUSTech	<i>2022, 2023, 2024</i>
◦ First Prize , 7th National Student Art Exhibition, for <i>Mahler Piano Quartet in A Minor</i>	<i>2023</i>
◦ Second Prize , Chamber Music (Non-Major Division), 3rd GBA College Student Art Festival	<i>2024</i>

Technologies

TOEFL (MyBest): 100 (R 25, L 27, S 23, W 25) **GRE:** 317 (V 152, Q 165)

Human Languages: Cantonese (Native); Mandarin; English

Programing Languages: Python; LaTeX; C++; TypeScript; Lua

Music Skills: Piano; Chamber Music Performance; Music Theory and Notation; Basic Composition

Portfolio

SVSmate, a VS Code extension for SUSTechers 
◦ Designed and implemented an extension to integrate school academic services into developers' workflow.

Leadership & Service

- **President**, MovieSalon Club & Camerata Coffee Club, SUSTech Jul. 2022 – Jul. 2024
- **Lianping Teaching Support Program**, delivered lessons on music and basic acoustics Jul. 2023
- **Piano and Music Theory Tutoring**, provided private instruction for 2 years 2023 – 2025