

Langchu Huang

📍 SUSTech ✉ 12213009@mail.sustech.edu.cn 🧠 naivecynics 🏠 Homepage

Education

Southern University of Science and Technology Sept. 2022 – May 2026
(expected)
B.E. in Computer Science and Technology
 ○ 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 *Southern University of Science and Technology* Sept. 2024 – Dec. 2024
 Explored the impact of paralinguistic signals in dialogue datasets on language model performance across tasks.

Research Intern *North Carolina State University* Jul. 2025 – Aug. 2025
 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 *Hong Kong University of Science and Technology* Aug. 2025 – Dec. 2025
 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 *TME Lyra Lab, Tencent Music Entertainment* Nov. 2025 – Mar. 2026
 Working on symbolic music related research.

Publications

Investigating the Representation of Backchannels and Fillers in Fine-tuned Language Models [🔗](#) Sept. 2025
ACL (under review)
 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 2022, 2023, 2024
- **First Prize**, 7th National Student Art Exhibition, for *Mahler Piano Quartet in A Minor* 2023
- **Second Prize**, Chamber Music (Non-Major Division), 3rd GBA College Student Art Festival 2024

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*