

# Qingyu LIU

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## EDUCATION

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|---|-----------------------|
| <b>Johns Hopkins University</b>   Baltimore, MD<br><i>M.S.E. in Electrical and Computer Engineering</i>   | Aug. 2025 – Present   |
| <b>Shanghai Normal University</b>   Shanghai, CHN<br><i>B.S. in Electronic Information Engineering</i> (Outstanding Graduate)<br>GPA: 3.95/4.00 (Rank: 2/523, Top 0.5%)<br>TOEFL iBT: 104 | Oct. 2020 – Jun. 2024 |

## RESEARCH EXPERIENCE

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| <b>Cross-Lingual F5-TTS v1, Shanghai Jiao Tong University X-LANCE Lab</b><br><i>Core Member</i>   Supervisor: Prof. Xie Chen  | Nov. 2025 – Present   |
| <ul style="list-style-type: none"><li>Proposed generating audio prompts via F5-TTS inference to replace forced alignment for transcript-free voice cloning training in original Cross-Lingual F5-TTS.</li><li>Developed a data construction pipeline via F5-TTS inference for each training sample with quality filtering.</li></ul>  |                       |
| <b>Multilingual F5-TTS, Shanghai Jiao Tong University X-LANCE Lab</b><br><i>Core Member</i>   Supervisor: Prof. Xie Chen  | Oct. 2025 – Present   |
| <ul style="list-style-type: none"><li>Developing a multilingual text-to-speech system based on F5-TTS.</li><li>Optimizing text tokenizers for Multilingual F5-TTS.</li></ul>  |                       |
| <b>Cross-Lingual F5-TTS v0, Shanghai Jiao Tong University X-LANCE Lab</b><br><i>Core Member</i>   Supervisor: Prof. Xie Chen  | Mar. 2025 – Sep. 2025 |
| <ul style="list-style-type: none"><li>Developed a novel framework based on F5-TTS with MMS forced alignment that enables cross-lingual zero-shot voice cloning without requiring audio prompt transcripts.</li><li>Designed and trained speaking rate predictors to derive speech duration from audio prompt pace.</li><li>Deployed an interactive online demo on Hugging Face Space for public evaluation.</li></ul> |                       |
| <b>Infant Cry and Snoring Detection, Shanghai Normal University</b><br><i>Leading Researcher</i>   Supervisor: Prof. Yanhua Long  | Nov. 2023 – Jul. 2024 |
| <ul style="list-style-type: none"><li>Constructed and open-sourced the Infant Cry and Snoring Detection (ICSD) dataset for public research use.</li><li>Proposed the Competitive CRNN+BEATs method, significantly improving system performance on the ICSD dataset.</li><li>Released the ICSD dataset and baseline codes on GitHub.</li></ul>   |                       |

## INTERNSHIP EXPERIENCE

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| <b>Johns Hopkins University, Center for Speech and Language Processing</b><br><i>Research Assistant</i>   Supervisor: Prof. Berrak Sisman | Dec. 2025 – Present |
| <b>Shanghai Jiao Tong University, X-LANCE Lab</b><br><i>Remote Research Assistant</i>   Supervisor: Prof. Xie Chen                        | Aug. 2024 – Present |

## PUBLICATIONS

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| <ul style="list-style-type: none"><li><b>Qingyu Liu</b>, Yushen Chen, Zhikang Niu, Chunhui Wang, Yunting Yang, Bowen Zhang, Jian Zhao, Pengcheng Zhu, Kai Yu, Xie Chen*. "Cross-Lingual F5-TTS: Towards Language-Agnostic Voice Cloning and Speech Synthesis," in <i>ICASSP</i>, 2026.</li><li><b>Qingyu Liu</b>, Longfei Song, Dongxing Xu, Yanhua Long* "ICSD: An Open-source Dataset for Infant Cry and Snoring Detection," <i>Journal of the Audio Engineering Society</i>.</li><li><b>Qingyu Liu</b>, Li Li, Yifan Zhou, Dongxing Xu, Yanhua Long* "A Comparative Study of Deep Learning Methods for Infant Cry Detection," in <i>NCMMSC</i>, 2023.</li></ul> |  |
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## AWARDS

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| <b>Gold Award</b> , 10th China International College Students "Internet+" Competition                           | June. 2024 |
| <b>Gold Award</b> , 14th Challenge Cup  | July. 2024 |
| <b>First Prize</b> , 14th China National Undergraduate "Innovation, Creativity, and Entrepreneurship" Challenge | May. 2024  |
| <b>Gold Award</b> , 9th "Think Youth" Digital Creation, Innovation & Entrepreneurship Competition               | Apr. 2024  |
| <b>Excellent Project Completion</b> , National Undergrad Training Program (Top 5%)                              | Nov. 2024  |