

QIBING BAI

+86 132-7888-2787 ◇ qibingbai@link.cuhk.edu.cn ◇ <https://p1ping.github.io>

EDUCATION

The Chinese University of Hong Kong, Shenzhen

Ph.D. in Computer Science

08/2023 – Present

Shenzhen, China

Supervisor: Haizhou Li

Research Interests: Speech-to-Speech Modeling (e.g., Accent Conversion and Speech Translation)

Southern University of Science and Technology

Master of Engineering

09/2020 – 06/2023

Shenzhen, China

Supervisor: Yu Zhang, Jimmy Liu, Tom Ko

Central South University

Bachelor's in Electronic Engineering

09/2016 – 06/2020

Changsha, China

SELECTED ACHIEVEMENTS

Best Paper Award, International Symposium on Chinese Spoken Language Processing

2024

WORK EXPERIENCE

Streaming Accent Conversion (Internship at Tencent TEA-Lab)

06/2025 – 12/2025

- Engineered and deployed a real-time accent conversion system for a customer service proof-of-concept.
- Designed a chunk-wise autoregressive diffusion framework to transform foreign accents into a native standard while preserving speaker identity and content.
- Optimized the model architecture for CPU inference and utilized the ONNX format for deployment.

Direct Speech-to-Speech Translation (Internship at ByteDance)

02/2022 – 03/2023

- Developed an end-to-end speech-to-speech translation (S2ST) model that achieved a BLEU score of 36.9, closing the quality gap to strong cascade systems (ST + TTS).
- Deployed the model for internal testing on the Lark platform.

PUBLICATIONS

Qibing Bai, Yuhan Du, Tom Ko, Shuai Wang, Yannan Wang, Haizhou Li. *Controllable Accent Normalization via Discrete Diffusion*. Interspeech 2026 (Long Paper).

Qibing Bai, Shuai Wang, Yuhan Du, Bohan Li, Yannan Wang, Haizhou Li. *TokAN: Accent Normalization Using Self-Supervised Speech Tokens*. Submitted to TASLP.

Kuang Wang, Lai Wei, Ping Lin, **Qibing Bai**, Wenkai Fang, Li Zhou, *et al.* *Bridging What the Model Thinks and How It Speaks: Expressive Speech Generation via Self-Aware Intent-Realization Alignment*. Submitted to EMNLP 2026.

Qibing Bai, Shuhao Shi, Shuai Wang, Yukai Ju, Yannan Wang, Haizhou Li. *CosyAccent: Duration-Controllable Accent Normalization Using Source-Synthesis Training Data*. ICASSP 2026.

Qibing Bai, Sho Inoue, Shuai Wang, Zhongjie Jiang, Yannan Wang, Haizhou Li. *Accent Normalization Using Self-Supervised Discrete Tokens with Non-Parallel Data*, Interspeech, 2025.

Qibing Bai, Shuai Wang, Zhijun Liu, Mingyang Zhang, Wei Rao, Yannan Wang, Haizhou Li. *Diffusion-Based Method with TTS Guidance for Foreign Accent Conversion*, ISCSLP, 2024. **[Best Paper Award]**

Xi Chen, Songyang Zhang, **Qibing Bai**, Kai Chen, and Satoshi Nakamura. *LLaST: Improved End-to-end Speech Translation System Leveraged by Large Language Models*, ACL Findings, 2024.

Shuai Wang*, **Qibing Bai***, Qi Liu, Jianwei Yu, Zhengyang Chen, Bing Han, Yanmin Qian, and Haizhou Li. *Leveraging In-the-Wild Data for Effective Self-Supervised Pretraining in Speaker Recognition*, Proc. ICASSP, 2024.

Qibing Bai, Tom Ko, and Yu Zhang, *A Study of Modeling Rising Intonation in Cantonese Neural Speech Synthesis*, Proc. Interspeech, 2022.

Rui Wang*, **Qibing Bai***, Junyi Ao, Long Zhou, Zhixiang Xiong, Zhihua Wei, Yu Zhang, Tom Ko, and Haizhou Li. *LightHuBERT: Lightweight and Configurable Speech Representation Learning with Once-for-All Hidden-Unit BERT*, Proc. Interspeech, 2022.

Qianqian Dong, Fengpeng Yue, Tom Ko, Mingxuan Wang, **Qibing Bai** and Yu Zhang, *Leveraging Pseudo-labeled Data to Improve Direct Speech-to-Speech Translation*, Proc. Interspeech, 2022.

Fangfang Zhou, **Bing Bai**, Yitao Wu, Minghui Chen, Zengsheng Zhong, Rongchen Zhu, Yi Chen, Ying Zhao, *FuzzyRadar: Visual Analysis for Understanding Fuzzy Clusters*, Journal of Visualization, 2019.

HONORS & AWARDS

SRIBD PhD Fellowship , The Chinese University of Hong Kong, Shenzhen	<i>2023</i>
Excellent Teaching Assistant , Southern University of Science and Technology	<i>2022</i>

SKILLS

Programming & Toolkits	Python, C/C++, PyTorch, fairseq, ESPnet
Languages	Mandarin Chinese (native), English (C1), French ($\approx$ A1)