

Xuanda Chen

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🏠 <https://superjo2.github.io>

EDUCATION	McGill University Ph.D. in Linguistics Research Interests: Speech Prosody, Speech Perception, Computational Linguistics	Montreal, Canada <i>Excepted 2025</i>
	Chinese Academy of Social Sciences M.A. in Linguistics & Speech Science Dissertation: Speech Assessment and Automatic Annotation for L2 English Prosody Advisor: Prof. Aijun Li & Prof. Ziyu Xiong	Beijing, China 2020
	University of California, Berkeley Visiting Student in Cognitive Science & Electrical Engineering	CA, US 2019
	University of Science and Technology of China Visiting Student in Electrical Engineering & Information Science Advisor: Prof. Zhen-Hua Ling	Hefei, China 2018
	Anhui University B.A. with honors in English Linguistics Advisor: Prof. Jian Hu	Hefei, China 2017
PROFESSIONAL EXPERIENCE	ByteDance, AI Lab Research Intern <ul style="list-style-type: none">Responsible for a large speech dataset construction up to 60 hours with prosodic annotation in ToBI.Co-designed a Praat-based platform for prosody annotation with automatic quality audit and error correction.Worked with the linguist team and the TTS team researching on controllable TTS. Successfully implemented Tacotron-based synthesis system, and the intonation of the generated speech can be conditioned on the ToBI tokens.	Beijing, China <i>May 2020 – Oct 2020</i>
	University of Science and Technology of China Graduate Researcher <ul style="list-style-type: none">Advisor: Prof. Zhenhua LingCo-built a large speech dataset covering over 13 dialectal regions in China, and made Python-based inquiring and analyzing tools and interface featuring segment searching and instant data visualization.Optimized the Praat-based platform for speech prosody annotation in ToBI. Designed state-of-the-art neural network models of the day for automatic ToBI annotation and prosodic structure evaluation.	Hefei, China <i>Sep 2018 – Jan 2019</i>
	AISpeech, AI Lab Research Intern <ul style="list-style-type: none">Worked with colleagues in the TTS group to research, design and created solutions for detecting errors in phonetic annotation in Mandarin and Shanghaiese on crowd-sourced speech datasets.Coordinated with an outsourcing annotation team, provided prosody labelling guidance, and performed supplier quality audit using self-developed scoring tools and procedures.Co-maintained TTS pipelines adapting for new speakers. Responsibilities cover speech dataset cleaning, text pre-processing, and ML training workflow maintenance.	Suzhou, China <i>Oct 2016 – May 2017</i>

SKILLS	Programming Python (Numpy, Pandas, Pytorch), R, Praat, L ^A T _E X, Matlab, Bash, JavaScript Tools Tmux, Git, macOS, Linux Languages English (Fluent), Mandarin (Native)
PUBLICATIONS	<ol style="list-style-type: none"> 1. Xuanda Chen, Zhenhua Ling, Ziyu Xiong, and Aijun Li, “Automatic prosodic annotation for l2 speech evaluation,” <i>Speech Communication</i>, (in submission). 2. Meng Liu, Longbiao Wang, Kong Aik Lee, Xuanda Chen, and Jianwu Dang, “Replay-attack detection using features with adaptive spectro-temporal resolution,” in <i>Proceedings of International Conference on Acoustics, Speech and Signal Processing</i>, IEEE, 2021, pp. 6374–6378. 3. Xuanda Chen, Yuan Jia, and Ziyu Xiong, “Measuring prosodic transfer in vector space by weighted tonal events,” in <i>11th International Symposium on Chinese Spoken Language Processing</i>, IEEE, 2018, pp. 220–224. 4. Xuanda Chen, Ziyu Xiong, and Jian Hu, “The trajectory of voice onset time with vocal aging,” in <i>Proceedings of Interspeech</i>, IEEE, 2018, pp. 1556–1560. 5. Jian Hu, Xuanda Chen, and Qingyu Wu, “An empirical case study of children’s perception and production of stop consonants (in Chinese),” <i>Proceedings of Hefei University</i>, vol. 34, no. 6, pp. 139–144, 2017.
PRESENTATION	<ul style="list-style-type: none"> • Xuanda Chen, Qingyu Wu, and Jian Hu. The Dialect Effect on English Stop Acquisition Between Mandarin and Wu Children. The Phonetic Conference of China, 2016. [Best Student Paper]
AWARDS	<ul style="list-style-type: none"> • The First-class Scholarship, Anhui University 2015 • Best Student Paper of Phonetic Conference of China 2016 2016 • Outstanding Graduate of Anhui University 2017 • Linguistic Institute of China Scholarship, Commercial Press 2017 • The First-class Scholarship, University of Chinese Academy of Social Sciences 2018, 2019 • The National Scholarship, University of Chinese Academy of Social Sciences 2019 • Graduate Excellence Award, McGill University 2020