

Xuanda Chen

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EDUCATION	McGill University	Montreal, Canada
	Ph.D. in Linguistics	<i>Excepted 2025</i>
	Research Interests: Speech Prosody, Speech Perception, Computational Linguistics	
	Chinese Academy of Social Sciences	Beijing, China
	M.A. in Linguistics & Speech Science	2020
	Dissertation: Speech Assessment and Automatic Annotation for L2 English Prosody	
	Advisor: Prof. Aijun Li & Prof. Ziyu Xiong	
	University of California, Berkeley	CA, US
	Visiting Student in Cognitive Science & Electrical Engineering	
		2019
	University of Science and Technology of China	Hefei, China
	Visiting Student in Electrical Engineering & Infomation Science	
		2018
	Advisor: Prof. Zhen-Hua Ling	
	Anhui University	Hefei, China
	B.A. with honors in English Linguistics	
		2017
	Advisor: Prof. Jian Hu	
PROFESSIONAL EXPERIENCE	ByteDance, AI Lab	Beijing, China
	Research Intern	<i>May 2020 – Oct 2020</i>
	<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.	
	University of Science and Technology of China	Hefei, China
	Graduate Researcher	<i>Sep 2018 – Jan 2019</i>
	<ul style="list-style-type: none">• Advisor: Prof. Zhenhua Ling• Co-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.	
	AISpeech, AI Lab	Suzhou, China
	Research Intern	<i>Oct 2016 – May 2017</i>
	<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 Shanghainese 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.	

- SKILLS** **Programming** Python (Numpy, Pandas, Pytorch), R, Praat, L^AT_EX, Matlab, Bash, JavaScript
Tools Tmux, Git, macOS, Linux
Languages English (Fluent), Mandarin (Native)
- PUBLICATIONS**
1. **Xuanda Chen**, Zhenhua Ling, Ziyu Xiong, and Aijun Li, “Automatic prosodic annotation for l2 speech evaluation,” *Speech Communication*, (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 *Proceedings of International Conference on Acoustics, Speech and Signal Processing*, IEEE, 2021, pp. 6374–6378.
 3. **Xuanda Chen**, Yuan Jia, and Ziyu Xiong, “Measuring prosodic transfer in vector space by weighted tonal events,” in *11th International Symposium on Chinese Spoken Language Processing*, IEEE, 2018, pp. 220–224.
 4. **Xuanda Chen**, Ziyu Xiong, and Jian Hu, “The trajectory of voice onset time with vocal aging,” in *Proceedings of Interspeech*, 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),” *Proceedings of Hefei University*, vol. 34, no. 6, pp. 139–144, 2017.
- PRESENTATION**
- **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**
- 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