# **Yubin Zhang**

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2019-2025	PhD in Linguistics
	Department of Linguistics, University of Southern California
	Dissertation: Sentence intonation: a dynamical gestural approach
	Committee: Louis Goldstein (chair), Dani Byrd, Khalil Iskarous,
	Shrikanth Narayanan
2016-2017	MSc in Phonetics
	Department of English Language and Linguistics, University of
	Edinburgh, Scotland, UK
2013-2016	B.S. in Psychology
	School of Cognitive and Psychological Sciences, Peking University,
	Beijing, China
2012-2016	B.A. in Chinese Linguistics
	Department of Chinese Language and Literature, Peking University,
	Beijing, China

## **Publications**

#### Journal Articles

2024

2022

Shi X., Feng T., Huang K., Kadiri S., Lee J., Lu Y., **Zhang Y.**, Goldstein L., Narayanan S. S. (2024). Direct articulatory observation reveals phoneme recognition performance characteristics of a self-supervised speech model. *JASA Express Letters*, 4(11).

**Zhang, Y.** (2024). Central Tibetan (Lhasa). *Journal of International Phonetic Association*, 1-23.

**Zhang, Y.** (2024). Phonetic categorization in phonological lexical neighborhoods: Facilitatory and inhibitory effects. *Attention, Perception, & Psychophysics*, 1-17.

Shao, J., Zhang, C., Zhang, G., **Zhang, Y.**, & Pattamadilok, C. (2022). The effects of alphabetic literacy, linguistic-processing demand and tone type on the dichotic listening of lexical tones. *Frontiers in Psychology*, 13, 877684.

**Zhang, Y.**, Pattamadilok, C., Lau, D. K.-Y., Bakhtiar, M., Yim L.-Y., Leung, K.-Y., & Zhang, C. (2021). Early auditory ERPs are modulated by alphabetic literacy skills in logographic Chinese readers. *Frontiers in Psychology*, 12:663166.

2020

**Zhang, Y.** & Kirby, J. (2020). The role of  $F_0$  and phonation cues in Cantonese low tone perception. *The Journal of the Acoustical Society of America*, 148(1), EL40-EL45.

Cheung, Y. L., Zhang, C., & **Zhang, Y**. (2020). Emotion processing in congenital amusia: the deficits do not generalize to written emotion words. *Clinical Linguistics & Phonetics*, 1-16.

### Conference Proceedings

2025

**Zhang Y.**, Kumar P., Tian Y., Zhao Z., Shi X., Huang K., Lee K., Hsu H., Narayanan S., Nayak K., Goldstein L. (2025). Co-registration of real-time MRI and respiration for speech research. *Proceedings of the 25th Annual Conference of the International Speech Communication Association*, Vol. 2025, 2175-2179.

Shi X., **Zhang Y.**, Lu Y., Ma M., Feng T., Toutios A., Hsu H., Goldstein L., Narayanan S. (2025). 75-Speaker Annot-16: A benchmark dataset for speech articulatory rt-MRI annotation with articulator contours and phonetic alignment. *Proceedings of the 25th Annual Conference of the International Speech Communication Association*, Vol. 2025, 983-987

2024

**Zhang, Y.**, Lu, Y., Rialland, A., Harper, S., Goldstein, L. (2024). Intensity downtrends in Embosi intonation. *Proceedings of 13th International Seminar on Speech Production*, 987-991.

2023

**Zhang, Y.** & Goldstein, L. (2023). Stop voicing and devoicing as articulatory tasks: A cross-linguistic RT-MRI study. *Proceedings of 20th International Congress of Phonetic Sciences*, 222-225.

Wu, P., Li, T., Lu, Y., **Zhang, Y.**, Lian, J., Black, A. W., Goldstein, L., Watanabe, S. & Anumanchipalli, G. K. (2023). Deep speech synthesis from MRI-based articulatory representations. *Proceedings of the 24th Annual Conference of the International Speech Communication Association*, Vol. 2023, 5132-5136.

2019

**Zhang, Y.** (2019). Individual variability of acoustic-perceptual mapping in ongoing merger: Observations from Cantonese Tone 4/Tone 6. *Proceedings of the 30th North American Conference on Chinese Linguistics*, 64-81.

2018

Zhang, G., Shao, J., **Zhang, Y.** & Zhang, C. (2018). Revisiting hemispheric lateralization for Cantonese lexical tone processing in dichotic listening. *Proceedings of Sixth International Symposium on Tonal Aspects of Languages*, 129-133.

# **Presentations (without proceedings)**

2024

**Zhang, Y.**, Lu, Y., Rialland, A., Harper, S., Goldstein, L. (2024). Acoustic properties of utterance-final prosodic events in Embosi. Poster presented at *the 187th Meeting of the Acoustical Society of America*.

2023

**Zhang, Y.**, Rialland, A., Lu, Y., Harper, S., & Goldstein, L. (2023). A dynamical systems approach to F0 hard-landing downtrends in

Embosi. Poster presented at Hanyang International Symposium and Cognitive Sciences of Language 2023, Seoul, South Korea. 2021 Zhang, Y., Zevin D. Jason. (2021). Rhyme neighbors inhibit lexical facilitation in phonetic categorization. Poster presented at Psychonomic Society 62nd Annual Meeting 2020 **Zhang, Y.** (2020). Consonant F0 is not intrinsic perturbation: Preliminary data from Nuosu Yi. Poster presented at the 12th International Seminar on Speech Production, New Haven, Connecticut, United States. Zhang, Y., Pattamadilok, C., Lau, D. K. Y., Bakhtiar, M., Yim L. Y., 2018 Leung, K. Y., and Zhang, C. (2018). The impact of first language alphabetic orthography on Cantonese phoneme judgement: an ERP study. Poster presented at the 10th Annual Meeting for the Society of Neurobiology of Language, Quebec City, Canada. Zhang, Y., Chan, S. W., Zhang, C. (2018). How does first language alphabetic orthography influence sound variation and change? Evidence from Hong Kong Cantonese. Poster presented at the 10th Annual Meeting for the Society of Neurobiology of Language, Quebec City, Canada.

# **Honors & Awards**

2025	Teresa Wilson Endowed Fellowship, University of Southern California
2024	Gold Family Graduate Fellowship, University of Southern California
2020	Hearing and Communication Neuroscience (HCN) Pre-doctoral Training
	Fellowship (NIH T32 Training Grant), University of Southern California
2019	USC Dornsife/Graduate School Fellowship, University of Southern
	California
2016	Eric Liddell China Saltire Scholarship, University of Edinburgh
	Scotland Saltire Scholarship, University of Edinburgh
2015	Chun-Tsung Scholar for undergraduate scientific research, sponsored
	by the Nobel Prize winner Dr. T. D. Lee, Peking University

### **Service**

### Departmental service

2017 Class representative of Phonetics, University of Edinburgh

# **Teaching & Research Experience**

Teaching	
Oct. 2025	Guest Lecturer, Department of Linguistics, University of Southern
	California
	Topic: Acoustic analysis of speech prosody
	Course: Speaker Identification (LING 450)
	Instructor: Sandra Ferrari Disner
2023	Teaching Assistant, Department of Linguistics, University of Southern
	California

Course: Human Language and Technology (LING 285)

Instructor: Mary Byram Washburn

2016 Part-time Assistant, Y-English, Beijing, China

Program: English Vocabulary Builder based on Proto-Indo-European

roots

Research

2023-2024 Research Assistant, Department of Linguistics, University of Southern

California

Project: Flexible deep speech synthesis through gestural modeling (PI:

Louis Goldstein, funded by NSF)

2017-2019 Research Assistant, Department of Chinese and Bilingual Studies &

Research Center for Language, Cognition and Neuroscience, Hong

Kong Polytechnic University, Hong Kong, China

Projects: Effects of alphabetic literacy skills on speech perception;

Prosodic characteristics of neonates' cries in Hong Kong; Tone and music perception in Chinese-speaking amusics

### **Skills**

(advanced), Japanese (basic), Spanish (Beginner)  Experimental techniques  Behavioral experiment design, data collection and analysis;  Speech audio data acquisition and acoustic phonetic analysis;  Neuroimaging data collection and analysis, such as electroencephalography (EEG);  Speech production data collection and analysis, such as
techniques  Speech audio data acquisition and acoustic phonetic analysis;  Neuroimaging data collection and analysis, such as electroencephalography (EEG);  Speech production data collection and analysis, such as
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electroglottography (EGG), respiration tracker, and vocal tract real-time
magnetic resonance imaging (RT-MRI, co-administered with MRI
engineers);
Multimodal speech corpus development (design, data curation and
annotation)
Documentation and revitalization of under-resourced languages (e.g.,
Sino-Tibetan and African languages)
Programming Python Matlah B Praat

Programming Python, Matlab, R, Praat