

Curriculum Vitae

Yubin Zhang

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Education

- 2019-present **Ph.D. in Linguistics**,
Department of Linguistics, University of Southern California
- 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 Shi X., Feng T., Huang K., Kadiri S., Lee J., Lu Y., **Zhang Y.**, Goldstein L., Narayanan S. S. (accepted). Direct articulatory observation reveals phoneme recognition performance characteristics of a self-supervised speech model. *The Journal of the Acoustical Society of America Express Letters*.
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.
- 2022 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.
- 2021 **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.
- 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.
- 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, pp. 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

- 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*.
- Zhang, Y.**, Lu, Y., Rialland, A., Harper, S., Goldstein, L. (2024). Intensity downtrends in Embosi intonation. Poster presented at the *13th International Seminar on Speech Production*, Autrans, France.
- 2023 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. Talk given at *the 24th Annual Conference of the International Speech Communication Association*, Dublin, Ireland.

Zhang, Y. & Goldstein, L. (2023). Stop voicing and devoicing as articulatory tasks. Poster presented at *20th International Congress of Phonetic Sciences*, Czech, Prague.

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.

2018 **Zhang, Y.**, Pattamadilok, C., Lau, D. K. Y., Bakhtiar, M., Yim L. Y., 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.

Zhang, Y. (2018). Variation in Cantonese Tone 4 and Tone 6 perception. Talk given at *30th North American Conference on Chinese Linguistics*, Columbus, Ohio, USA.

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 the MSc program in Phonetics, University of Edinburgh

Teaching & Research Experience

Teaching

2023 Teaching Assistant, Department of Linguistics, University of Southern California
Course: Human Language and Technology (LING 285)

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
Project: Effects of alphabetic literacy skills on speech perception

Skills

Languages: Mandarin Chinese (advanced), English (advanced), Cantonese (advanced), Japanese (basic)

Languages for research: Yoruba, Igbo, Setswana, Lhasa Tibetan, Nuosu Yi, IsiZulu, IsiXhosa

Programming: Python, Matlab, R, Praat

Laboratory Instrumentation: Audio recording, respiration tracker, electroencephalography (EEG), electroglottography (EGG), design and implementation of behavioral experiments, vocal tract real-time magnetic resonance imaging (RT-MRI, co-administered with MRI engineers)