Zhuoran Li

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Profile

· 2023 -	Postdoc.	University of Iowa Carver College of Medicine	
· 2017-2023	Ph.D.	Tsinghua University	Psychology
· 2013-2017	B.S.	Tsinghua University	Physics

Publications

IN PREPARATION OR UNDER REVIEW

Li, Z., Trapp, N. T., Bruss, J., Liu, X., Wu, K., Chen, Z., ... & Jiang, J. (2025). Multimodal Evidence for Hippocampal Engagement and Modulation by Functional Connectivity-Guided Parietal TMS**. In revision.**

Preprint: https://www.biorxiv.org/content/10.1101/2025.06.08.658503v1

Li, Z., Liu, X., Tatz, J., Hassan, U., Wang, J. B., Keller, C. J., ... & Jiang, J. (2025). A Practical Preprocessing Pipeline for Concurrent TMS-iEEG: Critical Steps and Methodological Considerations. **In revision.**

Preprint: https://www.biorxiv.org/content/10.1101/2025.08.13.670238v1

Li, Z., Liu, Y., Zhang, X., Kou, N., Zhao, X., Jiang, X., ... & Wang, S. (2024). The Compensatory Mechanism of the Prefrontal Cortex in Preserving Speech-in-Noise Comprehension Among Older Adults. **Under review.**

Preprint: https://www.biorxiv.org/content/10.1101/2024.03.08.584193v3.abstract

PUBLISHED

Trapp, N. T., Liu, X., **Li, Z.,** Bruss, J., Keller, C. J., Boes, A. D., & Jiang, J. (2025). Dorsolateral prefrontal cortex TMS evokes responses in the subgenual anterior cingulate cortex: Intracranial EEG evidence from two human cases. ***Brain Stimulation: Basic, Translational, and Clinical Research in Neuromodulation*.**

Zhang, H., Liu, H., **Li, Z.,** & Zhang, D. (2025). Distinct fNIRS Inter-Brain Coupling Patterns for Cooperation vs. Competition in a Tennis Game. ***Social Cognitive and Affective Neuroscience*,** nsaf060.

Li, Z., Hong, B., Nolte, G., Engel, A. K., & Zhang, D. (2024). Speaker–listener neural coupling correlates with semantic and acoustic features of naturalistic speech. ***Social Cognitive and Affective Neuroscience***, 19(1), nsae051.

Li, Z., & Zhang, D. (2024). How does the human brain process noisy speech in real life? Insights from the second-person neuroscience perspective. ***Cognitive Neurodynamics***, 18(2), 371-382.

Li, Z., Hong, B., Wang, D., Nolte, G., Engel, A. K., & Zhang, D. (2023). Speaker-listener neural coupling reveals a right-lateralized mechanism for non-native speech-in-noise comprehension. ***Cerebral cortex*,** 33(7), 3701–3714.

Zhang, X., Li, J., **Li, Z.,** Hong, B., Diao, T., Ma, X., ... & Zhang, D. (2023). Leading and following: Noise differently affects semantic and acoustic processing during naturalistic speech comprehension. ***NeuroImage***, 282, 120404.

Li, Z.#, Li, J.#, Hong, B., Nolte, G., Engel, A. K., & Zhang, D. (2021). Speaker-listener neural coupling reveals an adaptive mechanism for speech comprehension in a noisy environment. ***Cerebral cortex***, 31(10), 4719–4729. (#: co-first author)

Chen, J.#, **Li, Z.#,** Hong, B., Maye, A., Engel, A. K., & Zhang, D. (2019). A single-stimulus, multitarget BCI based on retinotopic mapping of motion-onset VEPs. ***IEEE Transactions on Biomedical Engineering***, 66(2), 464–470. (#: co-first author)

Shui, X., Zhang, M., **Li, Z.,** Hu, X., Wang, F., & Zhang, D. (2021). A dataset of daily ambulatory psychological and physiological recording for emotion research. ***Scientific Data***, 8(1), 161.

Feng, X., Lu, X., **Li, Z**., Zhang, M., Li, J., & Zhang, D. (2020). Investigating the physiological correlates of daily well-being: a PERMA model-based study. ***The Open Psychology Journal***, 13(1), 169-180.

Awards and Honors

- 2023 Excellent Ph.D. Graduate, Beijing
- 2023 Excellent Doctoral Dissertation, Tsinghua University
- 2021 National Scholarship for Ph.D. Students, Ministry of Education of China
- 2021 Best Oral Presentation Award, Doctoral Forum, Tsinghua University
- 2019 Tachiki Scholarship, Tsinghua University
- 2013 First Prize, Freshmen Scholarship, Tsinghua University

Conference Presentations & Talks

- Virtual talk, Organization for Human Brain Mapping (OHBM) Satellite meeting, 2025
- Poster presentation, Society for Neuroscience Annual Meeting (SfN), Chicago, IL, USA, 2024
- Invited virtual talk, Human Brain Research Lab, Department of Neurosurgery, University of Iowa, 2023
- Virtual talk, Fourth BNU Young Scholars Forum, Beijing Normal University, 2022
- Invited virtual talk, Crossmodal Learning Summer School, National Natural Science Foundation of China & Deutsche Forschungsgemeinschaft, 2021-2022