Liang Zhang

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EDUCATION AND TRAINING

Doctor of Philosophy - Cognitive Neuroscience

Beijing Normal University

September 2019 — July 2024

• Dissertation: Cognitive And Neural Mechanisms Of General Cognitive Abilities: Evidence From Psychometrics And Brain Networks

Research Assistant

Beijing Normal University

August 2017 — August 2019

- Collected and analyzed data from a large-scale longitudinal study of children's cognitive development
- Used structural equation modeling to explore the structure of children's cognitive abilities

Master of Science - Cognitive Neuroscience

Beijing Normal University

September 2014 — July 2017

- Thesis: The Structure and Development Trajectory of Children's Executive Function
- Graduated as an outstanding graduate of Beijing

Bachelor of Science - Statistics

Beijing Normal University

September 2009 — July 2013

- Graduated as top 5% of the class
- GPA: 3.7/4.0

MAIN PUBLICATIONS

Zhang, L., Feng, J., Liu, C., Hu, H., Zhou, Y., Yang, G., Peng, X., Li, T., Chen, C., & Xue, G. (2024). Improved estimation of general cognitive ability and its neural correlates with a large battery of cognitive tasks. Cerebral Cortex, 34(2), bhad510. https://doi.org/10.1093/cercor/bhad510

Sheng, J., Wang, S., **Zhang, L.**, Liu, C., Shi, L., Zhou, Y., Hu, H., Chen, C., & Xue, G. (2023). Intersubject similarity in neural representations underlies shared episodic memory content. Proceedings of the National Academy of Sciences, 120(35), e2308951120. https://doi.org/10.1073/pnas.2308951120

Feng, J., **Zhang, L.**, Chen, C., Sheng, J., Ye, Z., Feng, K., Liu, J., Cai, Y., Zhu, B., Yu, Z., Chen, C., Dong, Q., & Xue, G. (2022). A cognitive neurogenetic approach to uncovering the structure of executive functions. Nature Communications, 13(1), 4588. https://doi.org/10.1038/s41467-022-32383-0

Sheng, J., **Zhang, L.**, Liu, C., Liu, J., Feng, J., Zhou, Y., Hu, H., & Xue, G. (2022). Higher-dimensional neural representations predict better episodic memory. Science Advances, 8(16), eabm3829. https://doi.org/10.1126/sciadv.abm3829

CONFERENCE PRESENTATIONS

Zhang, L., Xue, G. The neural substrates of general cognitive ability based on multiple cognitive tasks. Poster presented at the Annual Meeting of the Society for Neuroscience, November 2023, Washington, DC. USA.