

Bao Hong/洪宝

06/2024

Contact Information

Institute of Cognitive Neuroscience

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East China Normal University

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Education

09/2020 – 06/2026 Expected: *Ph.D.*, Cognitive Neuroscience, East China Normal University

Advisor: Li Li (New York University Shanghai)

09/2018 – 06/2019 Minor in Computer Science and Technology, Nanchang University

09/2016 – 06/2020 *B.S.*, Applied Psychology, Nanchang University

Research Experience

Leading in projects:

10/2023 Temporal dynamics of serial dependence in ocular tracking

This research aims to investigate temporal dynamics of serial dependence in ocular tracking and using a Bayesian observer model constrained by efficient coding to predict the changes in serial dependence over time.

10/2023 Neural evidence of serial dependence in smooth pursuit eye movements

This research aims to explore the corresponding neural evidence of serial dependence in smooth pursuit to see whether that evidence is consistent with behavioral performance.

09/2021 Serial dependence in smooth pursuit eye movements of preadolescent children and adults

This research aims to explore whether ocular tracking exhibit any serial dependence and to investigate the developmental aspects of the serial dependence phenomenon.

Major role in projects:

07/2021 Measuring Visual Discomfort Associated with the Use of Head-Mounted Displays

This research aims to examine and quantify how the viewing duration through a head mounted display (HMD) leads to visual discomfort. I played a major role in the experiment design, experimental software development, data analysis.

09/2020 Brain maturation and the development of ocular tracking ability in children

This research aims to examine the development of ocular tracking ability and the brain structural changes with age. I played a major role in the experiment design, experimental software development, data collection, data analysis.

Publications

Journal papers:

- Hong, B.⁺, Chen J.⁺, Huang, W.J., & Li L.* (In review). Serial dependence in smooth pursuit eye movements of preadolescent children and adults
- Hong, B., Chen J., & Li L.* (To be submitted). Temporal dynamics of serial dependence in ocular tracking
- Huang, W.J.⁺, Chen J.⁺, Hong, B., Wang, Y., S., Zuo, X., N.*, & Li, L.* (To be submitted). Investigating Brain Structural Correlates of Ocular Tracking in Preadolescent Children and Young Adults.
- Hong, B., Zhang, L., & Sun, H. (2019). Measurement of the Vertical Spatial Metaphor of Power Concepts Using the Implicit Relational Assessment Procedure. *Frontiers in Psychology*, 10, 1422. <https://doi.org/10.3389/fpsyg.2019.01422>

Peer-Reviewed Conference Presentations:

- Hong, B., Chen, J., & Li, L. (2024, May). Temporal dynamics of serial dependence in ocular tracking. Talk presented at the 2024 Annual Meeting of the Vision Sciences Society, St. Petersburg, Florida, USA.
- Hong, B., Huang, W.J., Li, E., Chen, J., & Li, L. (2023, August). Ocular tracking abilities in preadolescent children. Talk presented at the 5th China Vision Science Conference (CVSC2023), Wenzhou, Zhejiang, China
- Hong, B., Huang, W. J., Li, E., Chen, J., & Li, L. (2023, April). Ocular tracking abilities in preadolescent children. Poster presented the 2023 Annual Meeting of the General Psychology and Experimental Psychology of the Chinese Psychological Association, Jinhua, Zhejiang, China
- Huang, W. J., Hong, B., Chen, J., & Li, L. (2024, October). Brain Structural Correlates of Ocular Tracking in Preadolescent Children and Young Adults. Poster presented at the 2024 Annual Meeting of Society for Neuroscience, Chicago, USA.
- Huang, W. J., Hong, B., Wu, J. H., Chen, J., & Li, L. (2023, August). Investigating brain structural correlates of ocular tracking in preadolescent children and young adults. Poster presented at the 5th China Vision Science Conference (CVSC2023), Wenzhou, Zhejiang, China

Conference abstracts:

- Hong, B., Huang, W., Li, Y. J., Chen, J., Li L. (2023). Ocular tracking abilities in preadolescent children. *Advances in Psychological Science*, 31(suppl.), 144-144.
(<https://journal.psych.ac.cn/xlkxjz/CN/Y2023/V31/Isuppl./144>)

Bao Hong's CV

Huang, W., Hong, B., Wu, J., Chen, J., Li L. (2023). Investigating Brain Structural Correlates of Ocular Tracking in Preadolescent Children and Young Adults. *Advances in Psychological Science*, 31(suppl.), 141-141.

(<https://journal.psych.ac.cn/xlkxjz/CN/abstract/abstract6922.shtml>)

Teaching Experience

01/2022 - 06/2022

Teaching Assistant, Perception and the Brain New York University Shanghai

Academic Skills

Data collection: Psychophysics (MATLAB PsychToolBox), Virtual reality (Vizard, Unity), Eye-tracking (Eyelink, VIVE pro eye), MRI

Data analysis: MATLAB, python, R, JASP, SPSS

Graphics: MATLAB, python, R, Adobe Illustrator, Photoshop

Honors

2022 Excellence in Research Award (NYU-ECNU Joint Research Institutes)

2019 Outstanding Graduates (Nanchang University)

2018 Merit Student (Nanchang University)

2017 Silver Award of the 4th China "Internet+" Competition (Department of Education of Jiangxi Province)

2016 Excellent Student Cadre (Nanchang University)