

**Jie Luo**

Department of Psychological Sciences

University of Connecticut

Email: [jie.luo@uconn.edu](mailto:jie.luo@uconn.edu)

**Education Background**

**University of Connecticut, Language and Cognition & Ecological program**

2021 – Present: PhD student

- Associate Trainee in Science of Learning & Art of Communication (SLAC) Training program at UConn
- Graduate Student Affiliates Trainee in The Connecticut Institute for the Brain and Cognitive Sciences (IBACS) at UConn
- PhD Advisor: Fumiko Hoeft, MD PhD.

**Beijing Normal University, State Key Laboratory of Cognitive Neuroscience and Learning**

2018-2021: Master of Education

- Master Advisor: Sha Tao, PhD.
- Master Dissertation: "The Mutual Relationship Between the Cortical-striatal Pathways and Reading Ability in School-aged Children: A Longitudinal Study"

**Anhui Normal University, Department of Psychology**

2014-2018: Bachelor of Psychology

- Admitted to the Development and Educational Psychology master program at Beijing Normal University without examination based on outstanding academic performance.

## **Peer-reviewed Publications**

1. Wang Y<sup>†</sup>, **Luo J<sup>†</sup> (co-first author)**, Ma L<sup>†</sup>, Chen R, Wang J, Chu C, Men W, Tan S, Gao JH, Qin S, He Y, Dong Q, Tao S. (2022). Learning to read Chinese promotes two cortico-subcortical pathways: The development of thalamo-occipital and fronto-striatal circuits. *Frontiers in Neuroscience*, *16*, 983084.
2. Peng, P., Zhang, Z., Wang, W., Lee, K. J., Wang, T. F., Wang, C. C., **Luo, J.**, & Lin, J. Z. (2022). A meta-analytic review of cognition and reading difficulties: Individual differences, moderation, and language mediation mechanisms. *Psychological Bulletin*, *148*, 227–272
3. Richter. Greiner, C., Li C., Turnbull A., Haft, S.L., Schneider-Richardson D., **Luo, J.**, Vankee-Lin F., Hoeft, F (submitted to *SCAN*). Brain Imaging Studies of Emotional Well-Being: A Scoping Systematic Review
4. Wang, D., **Luo, J.**, Li, S. et al (2022). Psychometric Properties of the Chinese Version of the Substance Use Risk Profile Scale. *Journal of Psychopathology and Behavioral Assessment*, *44*, 1135–1147
5. Wang, Y., Guan, H., Ma, L., **Luo, J.**, Chu, C., Hu, M., Zhao, G., Men, W., Tan, S., Gao, J. H., Qin, S., He, Y., Dong, Q., & Tao, S. (2022). Learning to read may help promote attention by increasing the volume of the left middle frontal gyrus and enhancing its connectivity to the ventral attention network. *Cerebral cortex (New York, N.Y.: 1991)*, *bhac206*.
6. Xia, Y., Xia, M., Liu, J., Liao, X., Lei, T., Liang, X., Zhao, T., Shi, Z., Sun, L., Chen, X., Men, W., Wang, Y., Pan, Z., **Luo, J.**, Peng, S., Chen, M., Hao, L., Tan, S., Gao, J.-H., ... He, Y. (2022). Development of functional connectome gradients during childhood and adolescence. *Science Bulletin*, *Volume 67*, *Issue 10*.
7. Chu, C., Guan, H., Xie, S., Wang, Y., **Luo, J.**, Zhao, G., Pan, Z., Hu, M., Men, W., Tan, S., Gao, J.-H., Qin, S., He, Y., Fan, L., Dong, Q., & Tao, S. (2022). The SACT Template: A Human Brain Diffusion Tensor Template for School-age Children. *Neuroscience Bulletin*, *38(6)*, 607–621.

8. Peng, P., Lee, K. J., **Luo, J.**, Li, S. T., Joshi, M., & Tao, S. (2020). Simple view of reading in Chinese: A one-stage meta-analytic structural equation modeling. *Review of Educational Research, 91*(1), 3–33.
9. Tao, S., Chen, R., Tao, Y., Li Y., **Luo J.**, Lu, J., Liu, L., Bi, H., & Li, S. (2020). Cognitive Neuroscience Research on Language Development: Key Advances, Trends and Planning Recommendations. *Science China-Life Sciences*.
10. Wang, Y., Xu, Q., **Luo, J.**, Hu, M., & Zuo, C. (2019). Effects of Age and Sex on Subcortical Volumes. *Frontiers in aging neuroscience, 11*, 259.
11. Wang, C., **Luo, J.**, Nie, P., & Wang, D. (2019). Growth Mindset Can Reduce the Adverse Effect of Substance Use on Adolescent Reasoning. *Frontiers in psychology, 10*, 1852.

### **Selected conference Presentations (peer-reviewed)**

1. **Luo, J.**, Li, C., Richter, C. G., Turnbull, A., Hoeft, F. (2023, May). Human neural correlates of emotional well-being: A meta-analytical review of MRI studies. Poster presentation will be at the 2023 Association for Psychological Science Annual Convention, Washington, DC.
2. **Luo, J.**, Wang, Y., & Tao, S. (2019, June). Modularity of reading-related brain networks: the effects of age, cognitive ability, vocabulary and reading level. Oral presentation at Committee of Chinese Developmental Psychology Society 15th Annual Psychology Symposium, Tianjin, China.
3. Wang, Y., Chu, CY., **Luo, J.**, Hu, M., & Tao, S. (2019, June) Modular Segregation of Functional Brain Networks Supports the Development of Attention Function. Oral presentation at 25th Annual Meeting of the Organization for Human Brain Mapping, Roma, Italy.

### **Awards and Honors**

#### **2023:**

- University of Connecticut - Institute for the Brain and Cognitive Sciences (IBACS) Graduate Summer Fellowship (Spring, 2023). 5000\$

- University of Connecticut - Science of Learning & Art of Communication (SLAC) Innovation Funds Award (Spring, 2023). 800\$
- University of Connecticut - Science of Learning & Art of Communication (SLAC) Travel Award (Spring, 2023). 800\$
- University of Connecticut – Graduate School Graduate Conference Participation Award (Spring, 2023). 750\$

**2021-2020:**

- Beijing Normal University – Academic Fellowship. 2000¥

**2019:**

- Beijing Normal University - Academic Fellowship. 2000¥
- Beijing Normal University - Outstanding Academic Contribution Awards. 1500¥

**2018:**

- Beijing Normal University - Outstanding Graduates Awards. 2000¥

**2016-2017:**

- China - National Second Award - National English Contest for College Students.
- Anhui Normal University - First Class Scholarship - Zhu Jingwen Special Scholarship. 5000¥
- Anhui Normal University - First Class Scholarship - Dao Heng Scholarship. 2000¥
- Anhui Normal University - First Class Scholarship - Tian Cheng Scholarship. 3000¥
- Anhui Normal University - First Class Scholarship - Yi Tong Scholarship. 2000¥
- Anhui Normal University - First Class Scholarship - Zhu Jingwen Scholarship. 2000¥
- China National Encouragement Scholarship. 5000¥

## **Research Projects**

### **2021-Present:**

1. **Network to Advance the Study of Mechanisms Underlying Mind-Body Interventions and Measurement of Emotional Well-Being ([M3EWB](#))** (Grant U24 AT011281-01; NICHD, OBSSR, and ODP are co-founding partners)
  - Role: Graduate Research Assistant, Co-author
  - Overview: Lead a series of meta-analyses to investigate the neural mechanisms of emotional well-being (EWB) using task-independent (resting-state fMRI and structural MRI) and task-based fMRI. Co-authored a scoping systematic review exploring the use of brain imaging techniques to assess the neural correlates of EWB.
2. **Bridging Reading and Intervention with Neuroscience ([B.R.A.I. N Camp](#))** (OAK Foundation; National Institutes of Health, NIH: 1F32HD106739-01A1)
  - Role: Behavioral and Neuroimaging Tester, Graduate Research Assistant
  - Overview: Full participation in the preparation and implementation of this camp, including the development of a data collection platform (REDCap), analysis of neuropsychological assessment data, and collection of EEG data. This study aims to improve children's reading and math skills through a 5-week intensive summer camp intervention, exam the relationship between changes in brain activation during EEG tasks and the effectiveness of reading interventions for children with dyslexia by combining frequent electrophysiological measurements, phonological and morphological awareness, memory, and attention interventions.

### **2017-2021:**

- **Chinese Children's School Function and Brain Development: A Longitudinal Cohort Study**
  - Role: fMRI & Behavioral Data Manager and Coordinator, Graduate Research Assistant

- Overview: Investigating the mutual relationship between brain and children's academic achievement, cognitive, and non-cognitive development through MRI data acquisition and comprehensive assessments.

**2018-2020:**

- **Meta-analysis of Chinese Reading**
  - Role: Co-author, Graduate Research Assistant
  - Overview: Investigating the Simple View of Reading for Chinese reading through a one-stage meta-analytic structural equation modeling (MASEM) based on 49,416 individuals from 210 studies.

**2017-2018:**

- **Cicero Learning, University of Helsinki**
  - Role: Volunteer Research Assistant
  - Overview: Supporting multi-methodological learning studies across the lifespan using EEG tests.

**Specialist Trainings**

- Institute for the Brain and Cognitive Sciences (IBACS) Graduate Grant Writing Workshop (May, 2023)
- DataWorks! Prize Symposium, Federation of American Societies for Experimental Biology (FASEB) & National Institutes of Health (NIH) (April 25<sup>th</sup>- April 26<sup>th</sup>, 2023)
- Psychology Alumni Career Panel Discussion, Yale University (April 7<sup>th</sup>, 2023)
- The 10th Annual Literacy Conference, Sacred Heart University (March 25<sup>th</sup>, 2023)
- Beyond Academia Conference Workshop, University of California, Berkeley (Feb 23<sup>rd</sup>-24<sup>th</sup>, 2023)
- J-Term Training Workshop at Science of Learning & Art of Communication, UConn (Jan 2023)
- EDULANG graduate training workshop at Science of Learning & Art of Communication, UConn (October 2022)

- AttLis conference at Science of Learning & Art of Communication, UConn (October 2022)
- FMRI Analysis Practical at Brain Imaging Research Center, UConn (Feb-March 2022)
- DWI Analysis Practical at Brain Imaging Research Center, UConn (November 2021)
- Brainnetome Atlas Training Courses at China Academy of Sciences Institute of Automation (March 30-31, 2019)
- China Big Data Mining in Education and Psychology Workshop at Beijing Normal University (July 29-31, 2019)
- Human Brain Mapping Brain Hack Workshop, Organization of Human Brain Mapping (June 16-18, 2020)

### **Teaching Experience**

- Jan 2023-Present: Lead Instructor (Spring 2023): Psychology 1100 – General Psychology I (50 students)

### **Internship Experience**

- Dec 2020- Jun 2021: Brain Science Curriculum Researcher at Zuoyebang Education Technology (Beijing, China) Co., Ltd. <https://www.linkedin.com/company/zuoyebang/?originalSubdomain=cn>
  - Lead and participated in developing curriculum and video courses on the neural mechanisms of reading and math, aimed at introducing the public to science learning.

### **Mentoring and Organizing Service**

- Mentor in Mentoring Aspiring Graduate students and building an Inclusive Community ([MAGIC](#)) at UConn (Nov 2022- Present)
- Internship/Career Development Committee at Science of Learning & Art of Communication ([SLAC](#)), UConn (Dec 2022-Present)

- Organization Committee for [Language Fest](#) at UConn (Feb 2023- Present)
- Organization Committee for [W.I.S.H conference](#) at UConn (March 2023-Present)

### **Outreach Activities**

- Instructor in Ask A Brain Scientist series ([AABS](#)) free online sessions at Brain Imaging Research Center, UConn (Jan 2022-April 2022)

### **Ad Hoc Reviewer Experience:**

- Review of Educational Research