

# JINGWEN LI

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## EDUCATION

1

**Teachers College, Columbia University – M.S in Neuroscience and Education**

05/2024

GPA: 3.80

**Shanghai Normal University – B.S in Applied Psychology**

07/2022

GPA: 3.78

Awards: 2022 Excellent Graduates, 2022 Outstanding Thesis: Brain Structural Covariance Network in Individuals with Sub-Depression: VBM & SBM Analysis

## PUBLICATION

2

Wu Y, Li J, Kuang M, Liu H, Luo J, He W, & Li H (2023) The Effects of Digital Cognitive Behavioral Therapy on Attentional Bias and Sleep Quality of Individuals with Insomnia, *International Journal of Public Health* (Under review)

Kuang S, Qang W, Yan S, Wu Y, Zhang Y, Li J, & Li H (2023) Psychological resilience and depression in the context of the COVID-19 pandemic: A moderated mediation role of self-forgiveness and social isolation, *Current Psychology* (Under review)

Lei C, Duan Y, Li J, Fu Y, & Chen R (2023) Development of machine learning-based model to predict suicidality and non-suicidal self-injury transition among adolescents and young adults: A large-scale survey study (To be submitted)

Shi J, He K, Li M, Brown A, He S, Li J, Spagna A\*, & He X\* (2022) A Decoded EEG Neurofeedback Platform Using Muse2, *Real-Time Functional Imaging and Neurofeedback Meeting, New Haven, CT, USA, October 17-21, 2022* (Poster)

## RESEARCH EXPERIENCE

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**Youth Mental Health Laboratory, Tsinghua University**

06/2023 - 10/2023

*Research on Transcranial Direct Current Stimulation Intervention for Non-Suicidal Self-Injury Population*

Principal Investigator: Runsen Chen

- Formulating research methodologies and SOPs of MRI-compatible tDCS intervention on NSSI, ensuring a smooth transition to subsequent phases of study.
- Coordinating study visits and maintaining contact with the participants, as well as collecting and managing all participants' physical and electronic materials, ensuring efficiency of study visits and the confidentiality of participants records.
- Operated Siemens 3.0T PRISMA MRI scanner and assisted in running scan sequences, ensuring the high quality of raw data.
- Co-authored Informed Consent, Clinical Trial Research Proposal and Case Report Form, as well as maintains all these study files, ensuring the rigor of the experiment in medical ethics.
- Served as a clinical structured interviewer for subject screening using MINI to identify 50+ adolescents with NSSI.
- Assisted in data quality control, resulting in enhancing preprocessing efficiency.
- Responsible for tDCS preparation work: including fitting EEG caps, applying EEG gel, and conducting impedance checks.

**Data Science Institute, Columbia University**

09/2022 - 04/2023

*Decoded EEG and fMRI Real-time Functional Neurofeedback*

Principal Investigator: Xiaofu He

- Participated in literature review of hand-feet motor signal neurofeedback to ensure the advancement of utilizing wireless EEG in research of this field.
- Participated in market research on wireless EEG suites to select the device with the highest data transmission quality.
- Assisted in refining the experimental paradigm to enhance the temporal consistency between real-time collected neural activity data and task progress by synthesizing experimental paradigms from relevant studies over the past five years.
- Assisted in constructing PowerPoint presentation for real-time neurofeedback conference.

**Shanghai Children Medical Center, Shanghai Jiao Tong University**

05/2021 – 11/2021

*Chinese Children Brain Science Center, Professor Jiang Fan's Research Group*

Principal Investigator: Fan Jiang, Guanghai Wang

- Participated in preprocessing the sleeping fMRI data of 6 to 8-year-old children to reduce motion artifacts and their impact on subsequent data analysis.
- Coordinating study visits and maintaining contact with the participants.
- Processed sleeping data for over 80 cases of infants and pregnant women using AMI.

- Translated assessment manuals such as Laboratory Temperament Assessment, etc., to broaden the cognitive and developmental assessment options available to the project team.

### **College Students Innovation and Entrepreneurship Training Program**

02/2021 - 11/2021

*Prediction Analysis of Resting-State Functional Connectivity Levels and Depression Severity Changes in Subthreshold Depression Individuals: A fMRI Study*

Principal Investigator: Haijiang Li

- Reviewed a wide array of SubD-fMRI studies and independently determined the MNI coordinates for 14 ROIs, primarily including bilateral prefrontal cortex, cingulate cortex, precuneus, etc.
- Conducted functional connectivity analysis using the Dpabi toolbox and obtained results showing significantly reduced connectivity of the precuneus after FWE correction.
- Utilized a predictive model developed independently to write a research report, resulting in the receipt of an outstanding project award.

### **INTERNSHIP**

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#### **Wework GC**

10/2021 – 01/2022

*Intern at the Learning and Development Project Team in the Human Resources Department*

- Utilized exploratory and confirmatory factor analysis to establish the Wework China Leadership Model, resulting in enhancing the efficacy and comprehensivity of employee performance review.

### **SKILL**

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#### **Professional Skills and Software Utilization:**

- Proficient in using MRI data analysis toolboxes (Dpabi, GIFT, CAT12, SPM12).
- Proficient in conducting voxel, surface, and source-based morphometry analysis and functional connectivity analysis.
- Proficient in using experimental programming kits (E-prime, Psychopy).
- Proficient in using statistical tools (SPSS, G-Power, Mplus).
- Basic knowledge of data visualization using MATLAB.
- Basic knowledge of machine learning method.

#### **General Skills:**

- Proficient in using MS Excel, PowerPoint, Word, and EndNote.
- Proficient in using Adobe Photoshop and Adobe Premiere Pro.

### **LANGUAGE**

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English-Mandarin bilingual; Japanese (elementary proficiency)