MENGSHUXIN LIN

meng.lin@mail.bnu.edu.cn

EDUCATION

Beijing Normal University, China   08/2022 - Present

    State Key Laboratory of Cognitive Neuroscience and Learning   *GPA: 3.7/4.0*

    & IDG/McGovern Institute for Brain Research, *Supervisor: Dr. Yin Wang*

Xiamen University, China   08/2016 - 06/2020

    B.A. Advertising

    B.A. Dramatic Arts and Film & Television Literature (dual-degree)

Ming Chuan University, Taiwan   02/2018 - 07/2018

    Exchange Program

    Awarded Certificate of Completion in Advertising and Strategic Marketing

HONORS & AWARDS

2nd-Class Graduate Scholarship, Beijing Normal University   2023

2nd Prize Broadcast Advertising, the 11th National Advertising Art Design   2019
Competition for College Students, Fujian, China

MANUSCRIPTS IN PREPATATION

Lin, M., Li, Y., Wang, Y. (2024). From Acquaintances to Friends, Pure Similarity or Attraction, Rather Than Interaction Quality, Keeps Friendship Green

CONFERENCE PRESENTATIONS

Zhang, Y., Zhang, M., **Lin, M.**, Wang, Y. (2023, April). *Shifting towards Movie-watching fMRI to Explore Dynamic Information Processing* [Accepted]. Academic Annual Meeting of General and Experimental Psychology Committee of the Chinese Psychological Society, Zhejiang, China.

RESEARCH EXPERIENCE

Graduate Student, BNU Social Neuroscience Lab   08/2022 - Present

    Advisor: Dr. Yin Wang

    Project1: **The Process of Friendship Formation**   06/2023 - 07/2024

- Independently responsible for design, recruitment, and data collection.
- Conducted intensive longitudinal mediation analysis and multilevel regression using R and Mplus to model the initial stages of friendship formation and predict long-term friend nomination.
- Dimensionality reduction of interaction patterns using latent profile analysis.

- Applied latent growth curve model to analyze the dynamic relationship between loneliness, social media use, and friends making.
- Utilized GPT for emotion and event extraction to identify cues related to forming friendships.

Project2: **The Evolution of Peer Groups: Causes and Consequences**   08/2024 - Present
- Led the design and conduct of research, utilizing fMRI, biosensor and questionnaires to investigate how social backgrounds influence behaviors within peer groups through the differential encoding of information in human brains, and the ultimate impact on mental health and well-being.
- Assisted in securing National Natural Science Foundation of China (NSFC) funding by writing the proposal and creating figures for this sub-project.
- Managed a team responsible for participant recruitment, task management, and release schedules.
- Analyzed social network and sensory data to explore their synergistic changes.

Project3: **The Study of Brain Development Underlying Emotion**   06/2022 - 05/2023
           and Social Cognition in Chinese School-Aged Children
- Spearheaded the task of naturalistic stimuli processing, including manual annotation of emotions, scenes, face expressions, and automatic extraction of visual features using MATLAB toolbox.
- Used autocorrelation and hidden Markov model to analyze brain state during movie watching.
- Employed Python packages for sentiment analysis and BERT topic model on post-scan recall data.

Project4: **The Conceptual Framework of Social Intelligence**   06/2022 - 05/2023
- Programmed PsychoPy experiments and optimized statistical indicators.
- Revised and evaluated scales to establish a public-facing psychological assessment platform.
- Managed more than 1000 participants, 100 tasks and conducted data quality check using Python.

Research Assistant, BNU Cognitive and Affective Neuroscience Lab   04/2021 - 04/2022
           Advisor: Prof. Shaozheng Qin

- Chronic Stress Project in Chinese Adolescents Project
  Tasks: Collecting questionnaires, cortisol and behavior data in Chinese college entrance examination students, Assisting fMRI scans, Parent-youth communication.
- Transcranial Photobiomodulation and Emotional Memory Project.
  Tasks: Collaboration on experimental design for memory updating and extinction, Brain regions selection for treatment, Assisting transcranial experiments.

SKILLS

Language: *English (fluent), Mandarin (native)*

Programming, Statis and Data Visualization: *Python, R, MATLAB, SPSS, Mplus*

Data Collection: *fMRI, iEEG (epilepsy patients), cortisol, Ecological Momentary Assessment, Psychotoolbox, PsychoPy*

Visual Content Creation: *Photoshop, Premiere Pro, After Effects*

Neural Imaging: *DPABI, Nilearn, naturalistic fMRI analysis like Functional Connectivity, HMM, RSA, ...*

Longitudinal Data Analysis: *Latent Growth Model, Cross-lagged Panel Model, Dynamic Structural Equation Model, ...*

Text Analysis: *NLP models (LDA, BERT), LLMs (GPT), Sentiment Analysis (VADER)*