

LIU Xianqing

Contact: +1 (857) 869-9925 ♥ xianqingliu98@gmail.com

EDUCATION

- 09.2021 - **The University of Edinburgh (UoE)**
11.2022 MSc, Psychological Research
(proposed) Thesis: Dissociation in semantic relation cognition: Evidence of functional specialization for taxonomic and thematic relations with sEEG oscillatory synchronization analysis
- 09.2016 - **Wuhan University (WHU)** **GPA: 3.73/4.0**
06.2020 BA, English Language and Literature
Thesis: Cross-cultural consistency and difference of spatial metaphor use in English and Chinese: Taking *Hamlet* and Zhu's translation as examples
- 03.2018 - **Central China Normal University (CCNU)** **GPA: 81.72/100**
06.2020 BS, Psychology (dual-degree)
Thesis: "Close-Far" spatial metaphorical mapping in Chinese semantic relevance processing

PREPRINT & PUBLICATIONS

- 09.2021 Xu, X., **Liu, X.**, Hu, X., & Wu, H. (2021, September 18). MT-aIAT: Integrating mouse tracking into memory-detection aIAT. <https://doi.org/10.31234/osf.io/ny9xq>
- 11.2020 **Liu, X.** (2020). Investigating sense of agency in multi-agent action-effect causality perception. *International Journal of Social Science and Education Research*, 3(12), 91-98.
- 09.2019 **Liu, X.**, Zhu, R., & Wang, N. (2019). Effect of height on peoples body specific representation and association between valence and space. *Psychology*, 10(10), 1353.

PRESENTATION & POSTER

- 04.2022 **Liu, X.** (2022, February). *Is speech production bilateral?* Talk presented in *Disorders of Language Functions*. Department of Psychology, University of Edinburgh, Scotland.
- 02.2022 **Liu, X.** (2022, April). *How does the brain process semantic relatedness? Spatio-temporal coherence in sEEG during semantic relatedness judgment*. Poster presented at Psychology Poster Day. University of Edinburgh, Scotland.

BOOK TRANSLATION

- 06.2021 《认知和行为的计算建模》 / Farrell, S., & Lewandowsky, S. (2021). *Computational Modeling of Cognition and Behavior*. (H. Wu & Q. Liu, Trans.) (1st ed.). Tsinghua University Press.
- Participating in translation and proofreading of the Chinese version of the book;
 - Recording tutorials in Chinese for Chapter 5 - Combining Information from Multiple Participants.

RESEARCH EXPERIENCE

- 02.2022 - **Spatio-temporal coherence in intracranial EEG during semantic relation processing**
08.2022 • Investigating neural dissociation in taxonomic and thematic semantic cognition in terms of sEEG

oscillatory synchronization;

- Pre-processing the sEEG data in MATLAB and modeling the phase locking value for statistical analysis in R;
- Presenting and writing the research report.

09.2021 - **Temporal dynamic of curiosity**

08.2022

- Investigating the ERP components associated with induced curiosity across time series;
- Designing experimental task to induce and relieve participant's curiosity in a dynamical manner;
- Collecting and pre-processing the EEG data in MATLAB;
- Analyzing behavioral data and curiosity-related ERP with R and Python;
- Writing the report (manuscript in preparation).

07.2020 - **Summer Project: Behavioural and Cognitive Neuroscience for Human Psychopathology**

09.2020

- Investigating the sense of agency in multi-agent action-effect causality perception;
- Designing experiment of the multi-agent action-outcome causality judgement task;
- Presenting and writing the research report.

08.2019 **Institute of Psychology, Chinese Academy of Sciences**

Internship Research Assistant

- Collecting and analyzing the behavioral data;
- Searching and sorting out literature for reviews and meta-analyses.

12.2018 - **Online Project: Human Cognition - Body, Brain, and Mind**

02.2019

- Investigating how height affects the body specific representation of the relationship between valence and space;
- Leading the group members to discuss, determine the research topic, design the experiments, make the presentation, and complete the research report.

WORKING EXPERIENCE

09.2020 - **AND Lab, Department of Psychology, The University of Macau**

08.2022 *Lab Research Assistant for Dr. Haiyan Wu*

- Hosting the A.N.D Lab's journal club and doing presentations;
- Drafting grant proposals and pre-registration;
- Proof-reading the manuscripts and assisting in the publication of articles;
- Collaborating with students and other researchers on design and implementation of studies;
- Collecting EEG and fMRI data;
- Creating and running surveys in Qualtrics and other online survey platform;

LAB WORKSHOPS & ACTIVITIES

10.2021- **Workshop: Computational Modeling of Cognition and Behavior**

01.2022 (2nd round) • Two rounds of study of the English and Chinese versions of *Computational Modeling of Cognition and Behavior* (authored by Simon Farrell and Stephan Lewandowsky);

02.2020-

04.2020 (1st round) • Teaching the content of Chapter 5 and relevant coding;
• Doing hands-on code exercises based on the content of each chapter.

09.2021 **Workshop: Psychophysiological data processing in Python**

- Basics of physiological data, including electrocardiography (ECG), photoplethysmogram

- (PPG), and heart rate variability (HRV);
- Processing pipeline of ECG, PPG, and HRV data;
- Hands-on coding in Python.

- 09.2021 **EEG Workshop: EGI Data Processing**
- EGI data collection tutorial;
 - Data processing pipeline using EEGLAB and MATLAB code;

- 07.2021-
08.2021 **fMRI Workshop**
- fMRI data preprocessing and visualization;
 - ROI / univariate analysis and MVPA using MATLAB;
 - Multiple comparison correction methods.

- 06.2021-
07.2021 **Workshop: Psychtoolbox in MATLAB**
- MATLAB basics and logic;
 - Introduction to Psychtoolbox;
 - Coding practice with Psychtoolbox.

- 12.2020 **fNIRS Workshop**
- Introduction to fNIRS and data processing pipeline;
 - fNIRS lab tour and data collection instructions.

- 05.2020-
07.2020 **Book Reading Club: *Neuroeconomics*** (edited by Paul W. Glimcher, and Ernst Fehr)
- Weekly reading club organized by AND lab;
 - One presenter per chapter, lab members discuss 2-3 chapters per week.

SKILLS & PROFICIENCY

Programming	R, MATLAB, Python, Latex,	
Software	E-prime, PsychoPy, EEGLAB, SPM12, SPSS, Qualtrics	
TOEFL iBT	Total: 115 (Reading 29, Listening 30, Speaking 28, Writing 28)	01.2021
GRE General	Total: 325 (Verbal Reasoning 155-68%, Quantitative Reasoning 170-96%)	10.2020

HONORS & AWARDS

04.2021	Distinction in TEM-8 (the highest-level qualifying test for English majors in China)
05.2020	Outstanding Dual-degree Graduation Thesis, School of Psychology, CCNU
05.2020	Outstanding Graduation Thesis, School of Foreign Languages and Literature, WHU
10.2019	Outstanding Student Scholarship, WHU
10.2018	Outstanding Student Scholarship, WHU