

LingYu Meng

L.Y._Meng@outlook.com

PROFESSIONAL SUMMARY

Master student with expertise in neuroscience, statistics, and programming. Skilled in using statistical methods and machine learning techniques to analyse behavioural and neural data. Proficient in MATLAB, R, and other programming languages.

EDUCATION

University of Sheffield

MSc, Systems Neuroscience

09/2023 - Present

Beijing Technology and Business University

BSc, Statistics

09/2017 - 07/2021

RESEARCH EXPERIENCE

University of Sheffield

Master Student

12/2023 - Present

Advisor: Dr. Hazem Toutounji, Dr. Alekhya Mandali

Individual difference in processing reward, loss, and uncertainty

- Planing to build computational model to investigate the relationship of intolerance of uncertainty, trait anxiety and risk taking

Voluntary Research Assistant

09/2023 - 11/2023

Advisor: Prof. Tom Stafford

- Visualised how group discussion affect group performance in numeric estimation tasks ([GitHub](#))

Beijing Normal University

Full-Time Research Assistant

08/2022 - 04/2023

Advisor: Prof. Yina Ma

- Conducted literature reviews on transcranial alternative current stimulus (tACS)
- Integrated MRI and CT to localise and label electrodes of intracranial electroencephalography (iEEG) by FieldTrip and FreeView
- Utilised LASSO, latent profile analysis (LPA), PCA to analysis behaviour pattern in inter-group conflicts
- Performed neural data cleaning, wavelet transform and time frequency analysis
- Utilised random forest to decoding economic games behaviour from neural data

Voluntary Research Assistant

06/2021 - 08/2022

Advisor: Prof. Yina Ma; cooperated with: Dr. Hejing Zhang;

The mechanism of leadership helping group survival from between group conflict

- Conducted literature reviews on evolutionary games theory

- Programmed evolution models to investigate the role of leadership in inter-group conflicts using MATLAB

Voluntary Research Assistant

09/2019 - 10/2019

Advisor: Prof. Xinlin Zhou

- Prepared questionnaires

SKILL

Programming Language

Proficient in MATLAB (FieldTrip, PTB), R (lme4, brms, tm, tidyLPA).
Experience with shell (server with Linux), C++, C, Python.

Software

VNC Server/VNC Viewer (server), SimNIBS, MRICron, SPSS.

Statistic

Statistical Learning (SVM, RF, GLMM, PCA, Clustering), EFA/ CFA, LPA, LASSO/ Ridge Regression/ Elastic Net, BP Neural Network, Basic Statistic (t-test, ANOVA and so on).

Mathematic

Advanced Algebra, Discrete Mathematics, Applied Stochastic Process, Probability Theory, Operational Research, Numerical Analysis, Mathematical Analysis, Ordinary Differential Equation

COURSEWORK

The optogenetic revolution is transforming neuroscience". Discuss

Essay ([here](#))

11/2023

How lesioned studies and neuroimaging improve our understanding in social cognition

Essay ([here](#))

01/2024

OTHER EXPERIENCE

Society for Social Neuroscience annual meeting

Poster (preregistration) ([see poster](#))

03/2024

Beijing Technology and Business University Debating Society

Chairman

06/2019 - 06/2020

Workshop of International Congress on Grief Research and Intervention in China; convenor: Amy Yin Man Chow

Student

2019.11