

Runquan YU

University of Macau, Avenida da Universidade, Taipa, Macau SAR, China

E-mail: yurunquan020428@outlook.com GitHub: <https://github.com/YURUNQUAN>

Lab website: <https://andlab-um.com/>

Education

University of Macau

Bachelor of Social Sciences in Psychology

Sep 2020 - June 2024

Macau SAR, China

Admission (Bachelor)

Minzu University of China (985, World Class University Category A)

University of Macau

Research Experience

Center for Cognitive and Brain Sciences, University of Macau

Aug 2021 - present

Supervisor: Prof. Haiyan Wu

The multi-modal representation of negative emotion experience under virtual reality (ongoing project)

August 2021 – May 2022

- Design the behavioral process (questionnaires)
- Collected the EEG, psychophysiological data and psychometric data on neuroticism, empathy, and mentalizing
- Manuscription of the paper

Neural computation of personal space and its influence on dynamic social navigation (ongoing project)

June 2021 – present

- Conceptualization on personal space and social navigation
- Personal space learning and social navigation task design and programming in *Psychopy*

The influence of curiosity and anxiety on spatial navigation in virtual reality (ongoing project)

May 2021 – present

- Conceptualization on the influence of anxiety on curiosity during exploratory behavior
- Virtual reality task design and programming in *Unity*

The EEG variability during face processing task of aging population (ongoing project) (Cooperation with West China Hospital)

June 2021 – present

- EEG data preprocessing and feature extraction by using *MNE* in *Python*

Submitted manuscripts

- Neural and psychophysiological Intersubject representational similarity analysis reveals individual variation for negative emotion experience under virtual reality.

Manuscripts in preparation

Presentation

Skills

- **Programming:** Python, MATLAB, R.
- **Data acquisition:** EEG
- **Neuromodulation:** TDCS
- **Data Analysis:** EEG, Multi-modal physiological data
- **Language:** Chinese (native), English (proficient)

Courses

- Social Psychology (A-), Personality Psychology (A)
- Artificial intelligence & human cognition, Cognitive development, Human cognitive psychology, Organizational Psychology.
- Statistics courses for Psychology: Statistics 1 (A) & 2 (A-).
- Economics Mathematics 1 & 2. Economic Statistics 1 & 2.

Research Interests

- Social Cognition: Anxiety, Depression, Emotion, Social Navigation/Space.
- Social Psychology & Personality Psychology.
- Computational Neuroscience: Reinforcement learning, Bayesian modeling

Awards and Honors:

Faculty of Social Sciences, University of Macau

Sep 2020-present

Student on Dean's Honor list for:

- 2nd Semester of 2020/2021 academic year
- 2021/2022 academic year
- 2022/2023 academic year

Student on R-statistics courses for:

- 2nd Semester of 2020/2021 academic year
- 2021/2022 academic year
- 2022/2023 academic year

Student Leadership:

- 2020/2021 academic year: Whole Person Development Award Program, Bronze Prize.
- 2020/2021 academic year: Student Assistant, Vice Rector (Student Affairs) Office, University of Macau.

Student Scholarship:

- 2021/2022 academic year

References

- **Prof. Haiyan Wu (Primary Supervisor), University of Macau, China**

Email: haiyanwu@um.edu.mo