

YANXI LIAO

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EDUCATION

University of Macau, Faculty of Social Science

Aug. 2019-Expected 2023

Bachelor of Society in Psychology

- **Cumulative GPA:** 3.88 / 4.0
- **Awards:** Dean's Honor List for four consecutive semesters
- **Core Courses:** Cognitive Development, Human Learning and Cognition, Developmental Psychology, Psychology Statistics I, Psychology Statistics II, Research Methods, Physiological Psychology, Sensation and Perception, General and Clinical Biochemistry, Introduction to Biological Sciences

University of Hong Kong, Faculty of Science

June. 2022-July. 2022

Summer Exchange Student

- **Grade:** A (4.0/4.3)
- **Course:** Calculus

RESEARCH INTERESTS

Cognitive Development, Selective Attention, Memory, Category Learning, Eye-tracking, Label and Categorization

PRESENTATIONS

Liao, Y. X., Li, J. H. & Deng, W. (Accepted). November 2022. "Selective Attention and Unsupervised Category Learning: An Eye-tracking Study" (Oral). The 24th National Academic Conference of Psychology, Chinese Psychological Society. (Acceptance rate: 30.141%)

RESEARCH EXPERIENCE

University of Macau, [Attention Brain and Cognitive Development Lab \(ABCD Lab\)](#)

Honor Thesis: The Effect of Label on Working Memory Binding

March. 2022-Present

- Leading a research project under the supervision of Professor Sophia W. Deng

Hybrid fNIRS-EEG based Classification, Research Assistant

Oct. 2021-Mar. 2022

- Designed the visual materials based on previous literature using PowerPoint
- Led and conducted experiment to study label and categorization using a fusion of fNIRS and EEG
- Analyzed EGI data utilizing toolkits EEGLAB on MATLAB for further analysis

Meta-Analysis: The Effect of Label on Categorization, Research Assistant

Sep. 2021-Oct. 2021

- Reviewed the literature and summarized the experiment designs of studies using EndNote
- Summarized data of critical variables including mean and standard deviation into an Excel file
- Helped a postgraduate student in calculating and discovering the preliminary features of data

Summer Research: Eye Tracking Study on Category Learning, Project Lead

June. 2021-Present

- Designed experiment procedure and coding on E-prime to study attention pattern and memory presentation in category learning together with a postgraduate student
- Conducted category learning experiment using eye-tracking machine as the experimenter
- Processed eye-tracking data with static and dynamic Interest Area (IA) on DataViewer
- Consolidated 85,337 data points distributed in four CSV files with R studio, and performed data analysis and visualization using multiple packages
- Performed repeated measurement of data on SPSS and summarized the result in a PowerPoint for presentation
- Drafting the methods and results parts in the experiment report

- Conducted experiment using 128-channel saline-based cap to study Multi-modal categorization
- Analyzed EGI data using toolkits EEGLAB on MATLAB for further analysis

AWARDS & HONORS

▪ Dean's Honor List (Academic Year 2020/2021 and Academic Year 2021/2022)	2021-2022
▪ Residential College Summer Programme Sponsorship for studies at University of Hong Kong	May. 2022
▪ University of Macau Team Sponsorship for studies at University of Hong Kong	May. 2022
▪ First Prize in the Sixth National College Students Art Exhibition	May. 2021
▪ Outstanding SPCer in UM Residential College Foundation Scholarship 2020	2020-2021
▪ Executive Member of the 2020-2021 SPC House Association	2020-2021
▪ Honorable Mention in Model United Nations Conference held by University of Macau	Nov. 2019
▪ Satisfactory Participation in the English Camp of SPC	Sep. 2019
▪ Bronze Award in Whole Person Development Award Programme	2019

LEADERSHIP

Shiu Pong College (SPC) House Association, Head of Propaganda Department 2020-2021

- Organized various activities such as photography workshop and kite painting workshop
- Led the ten colleges joint photography working group to live broadcast the Campus Cheerleading Competition held by Committee on Inter-College Affairs (CICA) of University of Macau
- Led the department members to propagate the college activities, and publish daily notices through multiple media

UM Symphonic Band, Chief Oboe 2019-Present

- Participated in a national art competition held by PRC Education Bureau as chief Oboe and won the first prize
- Participated in campus concerts every semester as chief Oboe to solo
- Coordinated the woodwind section regarding training in daily rehearsal

INTERNSHIP

Xiamen Tax Service, State Taxation Administration, Xiamen, China Aug. 2022

Information and Publicity Department

- Analyzed the impact of policy on local industry-university-research cooperation system and wrote articles.
- Adminstrated the reception of social media information and the sending of official documents.

SKILLS

Language Skills: Fluent in English (IELTS-Academic: 7.5/9), Native in Mandarin Chinese.

Computer Skills: R, E-prime 3.0, SPSS 3.0, Data Viewer, MATLAB, Psycho Py, Endnote

Interests: Oboe (achieved level 10/10), Piano (achieved level 10/10 in Central Conservatory of Music and level 6/10 in Music Theory Test), Watercolor, Sketching