

# Haibin Yu

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## 🎓 Education

### Lund University

*Master of Science in Psychology*

Sept 2024 – Present

*Lund, Sweden*

- > Relevant coursework: Philosophy and Methodology of Science in Psychology, Advanced Cognitive Neuroscience, Eye Tracking in Psychological Research

### Fudan University

*Bachelor of Science in Psychology*

Sept 2018 – June 2023

*Shanghai, China*

- > Major GPA: 3.6/4.0
- > Outstanding Undergraduate Thesis (Sole Nominee from Department of Psychology), 2023
- > Xiyuan Program Research Grant (Fudan's UROP), 2021: Retrieval Mechanisms of Music-Evoked Autobiographical Memories

## 🔬 Research Experience

### Researcher – Eye-tracking Study on Visual Search Under Instruction

*LU Humanities Lab*

Feb 2025 – Mar 2025

*Lund University*

- > Co-led the design and execution of an eye-tracking experiment investigating top-down vs. bottom-up attentional processes using an AI-generated visual search stimulus
- > Managed participant scheduling and data collection using the Tobii Pro eye tracker, including calibration procedures and data quality monitoring
- > Processed and analyzed eye-tracking data in Tobii Pro Lab, generating heat maps, scan paths, and gaze-sequence visualizations to compare attentional patterns across conditions

### Research Assistant – MEG Study on False Memory and Fear Generalization

*Institute of Science and Technology for Brain-inspired Intelligence*

June 2023 – June 2024

*Fudan University*

- > Served as a key collaborator and contributed as second author to the resulting manuscript (under review)
- > Designed, pre-registered and conducted MEG experiments with 34 participants
- > Reconstructed 34 anatomical brain images using Freesurfer
- > Preprocessed MEG data using Brainstorm, including filtering, epoching, and ICA denoising for 96 datasets
- > Analyzed behavioural data of 32 participants using linear mixed-effects models (LMM) in R

### Researcher – SCR Study on False Memory and Fear Generalization

*Memory Laboratory*

Mar 2023 – June 2023

*Fudan University*

- > Designed and pre-registered the experimental protocol and analysis plan on Open Science Framework (OSF)
- > Conducted psychophysiological (SCR) and behavioral data collection for 43 participants, administering over 6000 trials of the Deese-Roediger-McDermott (DRM) memory paradigm
- > Preprocessed SCR data in EEGLAB to filter artifacts and segment event responses, and extracted skin conductance features for further analysis
- > Performed statistical analysis of SCR waveforms and behavioural data in SPSS to test research hypothesis
- > Nominated for Collection of Outstanding Undergraduate Theses, Fudan University, 2023

### Undergraduate Researcher – Study on Music-Evoked Autobiographical Memories

*Xiyuan Program*

Mar 2021 – Apr 2022

*Fudan University*

- > Secured funding through Xiyuan Program for an independent research project
- > Led the design and execution of experiments to study the retrieval mechanisms of MEAM
- > Analyzed behavioural data from 33 subjects using SPSS and composed research report
- > Presented findings at the 2022 APS Annual Convention

### **Experimenter – Study on False Memory and Decision Making in Ageing**

Nov 2021 – Dec 2021

*Laboratory of Psychology and Behavioural Science of Ageing*

*Fudan Institute on Ageing*

- > Contributed to data collection with 10 healthy older adult participants (60–80 yrs) for behavioural study
- > Administered cognitive tasks and ensured ethical compliance throughout sessions
- > Study published in *The Journals of Gerontology: Series B* (Wang & Gutches, 2024)

## Publications & Presentations

### **How Are Emojis Processed? A Cross-Linguistic Eye-Tracking Study of Parafoveal Access and Semantic Integration**

May 2026

> **Haibin Yu**

- > Poster accepted by 2026 APS Annual Convention in Barcelona, Spain

### **Rethinking Emoji Cognition: A Cross-Writing System Perspective**

May 2026

> **Haibin Yu**

- > Poster presented at the 2026 ASLA Symposium in Umeå, Sweden

### **Implanting Fear in Memory: False Threat Memories Lead to Heightened Fear Generalization**

July 2025

- > Jianqin Wang, **Haibin Yu**, Yang Lu, Emma Biggs, Tom Beckers
- > Manuscript under review at *Cognition*

### **Retrieval Mechanisms of Music-Evoked Autobiographical Memories (MEAM): Generative or Direct Retrieval**

May 2022

- > Siyu Li, **Haibin Yu**, Jianqin Wang
- > Presented at 2022 APS Annual Convention in Chicago, USA

## Extracurricular Activities

### **Coordinator & Volunteer – Peer Support Program**

Apr 2022 – Dec 2022

*Mental Health Education Center*

*Fudan University*

- > Spearheaded the recruitment and training of psychology student volunteers for anonymous peer support during the COVID-19 pandemic
- > Provided direct, empathetic support to students via a confidential text-based platform, addressing concerns related to social isolation and anxiety
- > Identified high-risk cases, ensuring timely escalation to the university's professional mental health services

### **Project Contributor – Love is not Blind Program**

Oct 2020 – Dec 2020

*Youth Volunteer Association*

*Fudan University*

- > Selected age-appropriate stories and adapted them into clear, engaging scripts for recording
- > Recorded and produced 5 complete audiobooks based on popular children's stories for a visually impaired audience
- > Edited and processed audio files to ensure high-quality sound, removing background noise and balancing volume levels

## Skills

**Analytical:** R (tidyverse, lme4, rstan, knitr), MATLAB (basic, Brainstorm & EEGLAB), Freesurfer, SPSS, JASP

**Experimental & Research:** Psychopy, E-prime; Eye-tracking, SCR, EEG, MEG

**Academic Workflow & Open Science:** OSF, Zotero, Overleaf

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