

Part-time Research Assistant in EEG-Driven VR Systems for Emotional Regulation Research (Ref: URG/25/06)

Position: Part-time Research Assistant (Start date: May 2026)

Project Details: MindScapes: EEG-Driven Virtual Reality for Emotional Regulation and User-Centric Testing

This research project investigates the integration of real-time EEG biofeedback with immersive VR environments to support emotional regulation and mental well-being. The study focuses on developing and validating an accessible, user-centered system that combines art therapy principles, meditation techniques, and culturally-inspired spatial design. Through structured user testing, the project aims to refine the system's adaptive feedback mechanisms and evaluate its effectiveness in promoting emotional relief and self-awareness. (PI: Miss Xinzhou ZHANG)

Key Responsibilities:

The appointee will assist the Principal Investigator in the following tasks:

- Organizing and coordinating user testing sessions, including participant scheduling and venue setup
- Recording and documenting user interactions during VR testing sessions
- Collecting and organizing quantitative data (EEG metrics, engagement duration, system performance)
- Assisting with the administration and collection of questionnaires and feedback forms
- Transcribing and organizing qualitative data from semi-structured interviews
- Maintaining organized databases of user testing results and feedback
- Supporting prototype iteration and debugging processes when needed
- Assisting with preliminary data analysis and visualization
- Contributing to the preparation of research documentation and reports

Requirements:

- A bachelor's degree or current enrollment in a program related to Psychology, Sociology, Human-Computer Interaction, Digital Media, Computer Science, or related disciplines
- Strong organizational skills and attention to detail in data collection and management

- Basic familiarity with VR technology and user experience testing (training will be provided)
- Excellent interpersonal skills for participant interaction and coordination
- Proficiency in both written and spoken English and Chinese (Cantonese/Putonghua)
- Experience with data entry and basic statistical software (e.g., Excel, SPSS) is an advantage
- Interest in mental health, meditation, or emotional well-being research is preferred
- Ability to work independently and maintain confidentiality of research data

Terms of Appointment:

- The appointment is on a part-time basis (approximately 10-15 hours per week during testing phases, totaling 70 hours over the project period)
- Working hours will be flexible but may include some weekends to accommodate participant availability
- Remuneration: HK\$100 per hour
- Duration: June 2026 - September 2026 (approximately 3 months)

Application Procedure:

Interested candidates should send a cover letter and CV to Miss Xinzhou ZHANG via email at [xzzhang@hksyu.edu] by April 30.

Review of applications will commence immediately and continue until the position is filled. Only shortlisted candidates will be contacted for an interview.

The University reserves the right not to fill this position or to fill the position by invitation. Personal data provided by applicants will be used for recruitment purposes only.