

## PhD studentship (Full-time)

Institution	Xi'an Jiaotong-Liverpool University, China
School	Design School
Supervisors	Principal supervisor: Dr. Mengjie Huang (XJTLU) Co-supervisor: Dr. Rui Yang (XJTLU) Co-supervisor: Prof. Yong Yue (XJTLU) Co-supervisor: Prof. Chenguang Yang (UoL)
Application Deadline	Open until the position is filled
Funding Availability	Funded PhD project (world-wide students)
Project Title	Optimizing Human-Robot Interaction in a Brain-Computer Interface based Walking Assist Robot System
Contact	Please email <a href="mailto:mengjie.huang@xjtlu.edu.cn">mengjie.huang@xjtlu.edu.cn</a> (XJTLU principal supervisor's email address) with a subject line of the PhD project title.  The principal supervisor's profile is linked here: <a href="https://scholar.xjtlu.edu.cn/en/persons/MengjieHuang">https://scholar.xjtlu.edu.cn/en/persons/MengjieHuang</a>

### **Requirements:**

The candidate should have a first class or upper second class bachelor degree with honours, or a master's degree (or equivalent qualification), in human-computer interaction, intelligent science, computing, mechatronics, robotics, or other related programmes.

Evidence of good spoken and written English is essential. The candidate should have an IELTS score of 6.5 or above, if the first language is not English. This position is open to all qualified candidates irrespective of nationality.

### **Degree:**

The student will be awarded a PhD degree from the University of Liverpool (UK) upon successful completion of the program.

### **Funding:**

The PhD studentship is available for three years subject to satisfactory progress by the student. The award covers tuition fees for three years (currently equivalent to RMB 99,000 per annum). It also provides up to RMB 16,500 to allow participation at international conferences during the period of the award. The scholarship holder is expected to carry out the major part of his or her research at XJTLU in Suzhou, China. However, he or she is eligible for a research study visit to the University of Liverpool up to six months, if this is required by the project.

**Project Description:**

The Brain-Computer Interface based Walking Assist Robot (BCI-Bot) is an innovative wearable system designed to aid disabled or elderly individuals with walking. Despite the growing research interest in BCI-Bots in recent years, their practical applications are predominantly confined to lab settings. The pivotal challenge is evolving the system to effectively cater to actual users, transitioning it from lab-based prototypes to practical everyday applications. This PGRS project is committed to optimizing the human-robot interaction of the BCI-Bot. The outcomes of this project not only hold substantial theoretical implications by addressing a significant research gap but also promise to propel the practical implementation of BCI-Bot systems.

For more information about doctoral scholarship and PhD programme at Xi'an Jiaotong-Liverpool University (XJTLU), please visit

<https://www.xjtlu.edu.cn/en/admissions/doctoral>

**How to Apply:**

Interested applicants are advised to email [mengjie.huang@xjtlu.edu.cn](mailto:mengjie.huang@xjtlu.edu.cn) (XJTLU principal supervisor's email address) the following documents for initial review and assessment (please put the project title in the subject line).

- CV
- Personal statement outlining your interest in the position
- Certificates of English language qualifications (IELTS or equivalent)
- Full academic transcripts in both Chinese and English (for international students, only the English version is required)
- Verified certificates of education qualifications in both Chinese and English (for international students, only the English version is required)
- PDF copy of Master Degree dissertation (or an equivalent writing sample) and examiners reports available