

## PhD studentship (Full-time)



Institution	Xi'an Jiaotong-Liverpool University, China
Department	Department of Computer Science and Software Engineering
Supervisors	Principle supervisor: Prof Yong Yue (Xi'an Jiaotong-Liverpool University) Co-supervisor: Prof Prudence Wong (University of Liverpool, UK);
Application Deadline	Open until the position is filled
Funding Availability	Funded PhD project (world-wide students)
Project Title	Augmented Reality for Multi-Person Co-located Interaction 多用户协同交互增强现实的研究
Contact	Please email <a href="mailto:yong.yue@xjtlu.edu.cn">yong.yue@xjtlu.edu.cn</a> (principal supervisor's email address) and copy <a href="mailto:doctoralstudies@xjtlu.edu.cn">doctoralstudies@xjtlu.edu.cn</a> with a subject line of the PhD project title

### **Requirements:**

The candidate should have a first class or upper second class honours degree, or a master's degree (or equivalent qualification), in Computer Science or a closely related subject. The ideal candidate should have a strong interest in Human-Computer Interaction and interaction design (e.g., experiment design, hypothesis testing, and data analysis). Evidence of good spoken and written English is essential. The candidate should have an IELTS score of 6.5 or above, or an equivalent qualification, 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 80,000 per annum) and provides a monthly stipend of 3500 RMB as a contribution to living expenses. It also provides up to RMB 16,500 to allow participation at international conferences during the period of the award. It is a condition of the award that holders of XJTLU PhD scholarships carry out 300-500 hours of teaching assistance work per year. 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 of up to three months, if this is required by the project.

**Project Description:**

Augmented or mixed reality (AR/MR) renders virtual images in a view of the real world by means of see-through screen displays. One of the first hints of this technology as a commercially viable product arrived with the Google Glass. Soon after, with the arrival of Microsoft's HoloLens, augmented reality has reached a new level. Much of the exploration has been about single users in various contexts such as driving a car, in the workplace, and in data exploration. The challenge remains for multiple users to work in the same environment and with the same virtual objects. Multi-person mixed reality is a long-standing challenge of this technology. There is hope that virtual and augmented reality could prove useful for new ways of accessing and handling information, in particular for collaborative interaction and exploration.

In this project, we will advance our knowledge of multi-user interaction in augmented reality environments. The research will focus on new interaction techniques and interface design principles for AR and collaborative tasks, which have significant implications for the future development of AR/MR systems. This intended PhD student will work on the project with great potential to collaborate with industry.

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

<http://www.xjtlu.edu.cn/en/admissions/phd/entry-requirements.html>

<http://www.xjtlu.edu.cn/en/admissions/phd/feesscholarships.html>

**How to Apply:**

Interested applicants are advised to email [yong.yue@xjtlu.edu.cn](mailto:yong.yue@xjtlu.edu.cn) (principal supervisor's email address) the following documents and copy [doctoralstudies@xjtlu.edu.cn](mailto:doctoralstudies@xjtlu.edu.cn) (please put the project title in the subject line).

- CV
- Two reference letters with company/university letterhead
- Personal statement outlining your interest in the position
- Proof of English language proficiency (an IELTS score of above 6.5 or equivalent is required)
- Verified school 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)

**Informal enquiries** may be addressed to Professor Yong Yue ([yong.yue@xjtlu.edu.cn](mailto:yong.yue@xjtlu.edu.cn)), whose personal profile is linked below,

<http://www.xjtlu.edu.cn/en/departments/academic-departments/computer-science-and-software-engineering/staff/yong-yue>