

## PhD studentship (Full-time)



Institution	Xi'an Jiaotong-Liverpool University, China
Department	Department of Computer Science and Software Engineering
Supervisors	Principle supervisor: Dr. Paul Craig (Xi'an Jiaotong-Liverpool University, Department of Computer Science and Software Engineering) Co-supervisor: Prof. Prudence Wong (University of Liverpool, Department of Computer Science) Co-supervisor: Dr. Xin Huang (Xi'an Jiaotong-Liverpool University, Department of Computer Science and Software Engineering) Co-supervisor: Dr. Andrew Abel (Xi'an Jiaotong-Liverpool University, Department of Computer Science and Software Engineering)
Application Deadline	Open until the position is filled
Funding Availability	Funded PhD project (world-wide students)
Project Title	Interface Design for Mobile Information Visualisation 面向移动设备信息可视化的人机界面设计
Contact	Please email <a href="mailto:p.craig@xjtlu.edu.cn">p.craig@xjtlu.edu.cn</a> (XJTLU 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. 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 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:**

This project will investigate the potential of information visualization to better support user interaction on mobile devices such as tablets, smartphones and smartwatches. While the potential of mobile information visualization is widely recognized, there is still relatively little research in this area and few practical guidelines for interface design. This is in spite of the increasing popularity and widespread use of smartphones and other mobile technologies. In this project we will address this issue by looking at how to improve mobile information visualization by adapting and extending existing IV guidelines to account for device limitations as well as making better use of the additional input and output modalities afforded by mobile devices (such as sound, haptic feedback, tactile input, gesture recognition and speech recognition), as well as improved connectivity and processing capabilities.

The PhD study will involve the design, development and evaluation of prototype information visualization applications, requiring competence in computer programming (preferably in Java or a similar object oriented programming language) and a willingness to learn and adapt to new computing technologies. Informal enquiries addressed to the project PI are encouraged.

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/feescholarships.html>

### **How to Apply:**

Interested applicants are advised to email p.craig@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
- Two reference letters with company/university letterhead
- Personal statement outlining your interest in the position
- Proof of English language proficiency (an IELTS score of 6.5 or above)
- 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 Dr. Paul Craig (p.craig@xjtlu.edu.cn),

whose personal profile is linked below,

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