

PhD studentship (Full-time)

Institution	Xi'an Jiaotong-Liverpool University, China
School	School of AI and Advanced Computing
Supervisors	Principal supervisor: Dr. Jingxin Liu Co-supervisor: Professor. Angelos Stefanidis Co-supervisor: Dr. Fangyu Wu Co-supervisor: Dr. Bei Peng (UoL)
Application Deadline	Open until the position is filled
Funding Availability	Funded PhD project (world-wide students)
Project Title	Research of domain adaptive computer-aided quantitative analysis for digital pathological images
Contact	Please email Jingxin.Liu@xjtlu.edu.cn (XJTLU principal supervisor's email address) with a subject line of the PhD project title. The principal supervisor's profile is linked here: https://www.xjtlu.edu.cn/en/study/departments/school-of-ai-and-advanced-computing/school-staff/academic-staff/staff/jingxin-liu

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, Electronic Engineering, etc.** 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:

In digital pathology, the difference between stains, slide preparation techniques and slice scanners will cause large visual differences in the actual digital pathology images, which directly affect the accuracy of the computer-aided interpretation algorithm. Therefore, solving the problem of generalization of pathological images is of great significance to intelligent interpretation of digital pathology. This project aims to propose a domain generalization method based on self-supervised learning, transformer, large vision model techniques, etc. The series of research solutions proposed by this project should be original and start-up, which can be the domain generalization ability of digital pathological image analysis.

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/global/entry-requirements/>

<https://www.xjtlu.edu.cn/en/admissions/global/fees-and-scholarship>

How to Apply:

Interested applicants are advised to email Jingxin.Liu@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 formal reference letters
- 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