

PhD studentship (Full-time)

Institution	Xi'an Jiaotong-Liverpool University, China
School	School of AI and Advanced Computing
Supervisors	Principal supervisor: Professor Jasmine Seng Kah Phooi 成嘉佩 (XJTLU) Co-supervisor: Dr Jingxin Liu (XJTLU) Co-supervisor: Professor Yannis Goulermas (UoL)
Application Deadline	Open until the position is filled
Funding Availability	Funded PhD project (world-wide students)
Project Title	AI-Empowered Situation Awareness Geo Map Project for Identifying Potential Threats and Dangerous Situations
Contact	Please email Jasmine.Seng@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/departments/academic-departments/school-of-ai-and-advanced-computing/staff/jasmine-seng

Requirements:

The candidate should have a first class or upper second class honours degree, or a master's degree (or equivalent qualification), in a relevant field such as computer science, software engineering, or any relevant computing domain and be able to demonstrate equivalent relevant research experience. A person with prior knowledge and/or working experience in Data Analytics on Situation Awareness or AI Multimedia Information Processing will be preferred. 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). 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:

Situational awareness (SA) refers to the perception and understanding of what's happening in a complex environment and identifying potential threats and dangerous situations. This research aims to develop a number of new AI innovative technologies for situation awareness and threats modelling from unstructured Big Data generated by Internet or social networks. The research will result in the development of the AI-Empowered Situation Awareness Geo Map Project (AI-SAMAP) for identifying potential threats and dangerous situations from unstructured Big Data. The project aims to develop new techniques and address two important components or research questions for multimodal modelling from Big Data videos and speech towards the challenge of situation awareness and threats identification from Internet or social networks: (1) Intelligent information processing techniques; and (2) Deployment on meta-scalable computing architectures. The project is focused on videos and speech since sentiment, emotion and opinion modelling for text-based data have been widely investigated. The later part of the project would incorporate text-based techniques to realize a complete system for situation awareness and threats identification.

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 contact Jasmine.Seng@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