PhD studentship (Full-time)

Institution	Xi'an Jiaotong-Liverpool University, China
School	School of Advanced Technology
Supervisors	Principal supervisor: Dr…Dongyao Jia… (XJTLU) Co-supervisor: Dr…Yuanjian Li…...(XJTLU) Co-supervisor: Dr…Junqing Zhang…...(UoL) Co-supervisor: Dr…Bingyi Liu …..(WHUT)
Application Deadline	Open until the position is filled
Funding Availability	Funded PhD project (world-wide students)
Project Title	… Adaptive Digital Twin Modelling and Optimization for V2X Networks in Large-Scale Traffic Scenarios..
Contact	Please email…dongyao.jia@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://scholar.xjtlu.edu.cn/en/persons/DongyaoJia

Requirements:

A Master's degree with Merit and a Bachelor's degree with first-class or upper second-class honors are required for PhD admissions. Exceptional candidates holding only a Bachelor's degree may be considered on an individual basis in certain disciplines.

Evidence of good spoken and written English is essential. The candidate should have an IELTS (or equivalent) 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. RA/TA subsidy will be offered upon the working performance. The scholarship holders are expected to conduct the majority of their research at XJTLU in Suzhou,

China. However, they may apply for a short-term research visit to the University of Liverpool if the project requires it.

Project Description:

This project enhances V2X digital twin simulation by addressing wireless channel inaccuracies in simulation under real-world obstructions (buildings, vehicles). Leveraging real urban C-V2X data, it establishes quantitative links between environmental factors (obstruction types, distances) and communication metrics (RSRP, SINR). A deep learning-based signal prediction model is integrated into simulation-based twin module, improving simulation fidelity for complex channel dynamics. The enhanced hybrid twin platform enables realistic evaluation of C-V2X systems, optimizing design and policy-making with high-precision emulation of real traffic scenarios.

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…Dongyao.jia@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