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…Wanxin Li…...(XJTLU) Co-supervisor: Dr…Yi Dong……(UoL)
Application Deadline	Open until the position is filled
Funding Availability	Funded PhD project (world-wide students)
Project Title	… Multi-objective cooperative driving in mixed 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 research aims to develop intelligent vehicle platooning systems that optimize traffic efficiency, safety, and energy use in mixed traffic environments where autonomous and human-driven vehicles coexist. Using advanced methods like Deep Reinforcement Learning and Model Predictive Control, the study focuses on designing adaptive and robust strategies for vehicle coordination. It includes optimizing longitudinal speed for smooth traffic flow, enhancing cooperation among multiple platoons, and developing safe and efficient lane-changing maneuvers. The goal is to address real-world traffic challenges, improve large-scale traffic performance, and lay the groundwork for safer, more efficient transportation systems in urban settings.

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