PhD studentship (Full-time)



Institution	Xi'an Jiaotong-Liverpool University, China				
Department	nt Department of Civil Engineering				
Supervisors	Principal supervisor: Dr. Lei Fan (XJTLU, Department of Civil Engineering) Co-supervisor: Dr. Cheng Zhang (XJTLU, Department of Civil Engineering) Co-supervisor: Professor. Kristian Krabbenhoft (UoL, School of Engineering)				
Application Deadline					
Funding Availability					
Project Title	Chinese title: 基于点云数据的信息提取的研究 English title: Information extraction from large point cloud datasets				
Subject Areas	Civil & Structural Engineering Computer Science & IT Geography Software Engineering Applied Mathematics Statistics				
Contact	Please email <u>Lei.Fan@xjtlu.edu.cn</u> (XJTLU principal supervisor's email address) with a subject line of the PhD project title				

Requirements:

Academic qualification: The candidate should have a first class or upper second class honours degree, or a master's degree (or equivalent qualification), in Civil Engineering (e.g. surveying), Geomatics Engineering, Computer Science (e.g. computer vision) or Geography (e.g. remote sensing, GIS). The candidate should have excellent programming skills (MATLAB, PYTHON or C++) and experience in spatial data analysis and statistics. Good knowledge of remote sensing, GIS and machine learning would be useful.

Language qualification: 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 5,000 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 or research 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 aims to develop new/improved data analytic methods for information (e.g. key data points, features) extraction from large-scale point cloud datasets to support some typical applications such as data simplification, object recognition, classification and 3D reconstruction in built environment. There will be some flexibility in terms of application cases to be considered. The accuracy of the information extracted, the computational efficiency of the methods developed, and the ways in which those can be improved will be investigated. Imagery data where appropriate can be considered to aid the information extraction.

For more information about doctoral scholarships and PhD programmes at Xi'an Jiaotong-Liverpool University (XJTLU), please go to https://www.xjtlu.edu.cn/en/ and Click **Study with Us**.

How to Apply:

Interested applicants are advised to email Lei.Fan@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. Lei Fan (Lei.Fan@xjtlu.edu.cn), whose personal profile is linked below,

https://www.xjtlu.edu.cn/en/departments/academic-departments/civil-engineering/staff/lei-fan

Appendix: Subject Areas

Please kindly be noted that subject areas are added to increase the visibility of your project on www.findaphd.com.

Biological & Medical Sciences		Engineering			
	Agricultural Sciences		Acoustics		
	Biochemistry		Aeronautical, Maritime and Transport Engineering		
	Bioinformatics		Biomedical Engineering		
	Biomedical Engineering		Chemical Engineering		
	Biophysics	V	Civil & Structural Engineering		
	Biotechnology		Electrical & Electronic		
	Botany / Plant Science		Energy		
	Cancer / Oncology		Environmental Engineering		
	Cell Biology / Development		Manufacturing		
	Dentistry		Materials Science		
	Ecology & Conservation		Mechanical Engineering		
	Endocrinology		Nanotechnology		
	Evolution		Nuclear Engineering		
	Food Science / Nutrition		Petrochemical Engineering		
	Genetics		Semiconductors		
	Immunology		Software Engineering		
	Marine Biology		Telecommunications		
	Medical / Biomedical Physics				
	edical / Clinical Science		Taths & Computing ☐ Applied Mathematics		
	Medical Imaging		Bioinformatics		
	Microbiology		Computational Chemistry		
	Molecular Biology	<u>~</u>	Computer Science & IT		
	Neuroscience / Neurology		Data Analysis		
	Obstetrics, Gynaecology & Reproduction		Information Science		
	Palaeobiology		Mathematics		
	Parasitology		Operational Research		
	Pathology	<u> </u>	Software Engineering		
	Pharmacology / Toxicology		Statistics Statistics		
	Pharmacy / Pharmaceutics	Ш	Staustics		
	Physiology & Sports Science	Hui	nanities		
	Psychology & Psychiatry		American Studies		

	Public Health & Epidemiology		Anthropology
	Structural Biology		Archaeology
	Veterinary Medicine		Architecture & the Built Environment
	Virology		Asian Studies
	Zoology / Animal Science		Classics & Ancient History
			Communication, Cultural & Media Studies
_	emical Sciences		European Studies
	Agricultural Chemistry		Geography
	Analytical Chemistry	П	History
	Biochemistry		Middle East & African Studies
	Chemical Engineering		
	Chemical Toxicology		Modern Languages & Linguistics
	Computational Chemistry		Philosophy
	Electrochemistry		Theology & Religious Studies
	Environmental Chemistry	Soc	cial Science & Health
	Food Chemistry		American Studies
	Geochemistry		Anthropology
	Inorganic Chemistry		Architecture & the Built Environment
	Macromolecular Chemistry		Asian Studies
	Materials Science		Development Studies
	Organic Chemistry		Economics
	Pharmaceutical Chemistry		Education
	Physical Chemistry		European Studies
	Synthetic Chemistry		Gender & Sexuality
DI			Geography
Phy	ysical Sciences Applied Physics		Health Sciences
			History
	Astrophysics Atmospheric Physics		Middle East & African Studies
_	Atmospheric Physics		Modern Languages & Linguistics
	Atomic Physics		Nursing, Midwifery & Allied Health Professions
	Biophysics		Philosophy
			Political Science & International Studies
	Fluid Dynamics		Psychology
	Geophysics		Public Health & Epidemiology
	Low-temperature Physics		Social Work, Social Policy & Administration
	Materials Science		Sociology

	Medical / Biomedical Physics		Sports, Recreation & Leisure Studies	
	Metrology		Town & Country Planning	
	Nuclear Physics			
	Optical Physics	Business & Finance		
	Particle Physics		Accounting & Finance	
_	•		Business & Management	
	Plasma Physics		Economics	
	Radiation		Marketing	
	Semiconductors		Tourism & Hospitality	
	Theoretical Physics		1 7	
_		Law		
_	th Sciences		Law	
Ш	Agronomy & Soil Science			
	Atmospheric Physics	Art	rts	
	Climatology & Climate Change		Architecture & the Built Environment	
	Ecology & Conservation		Art & Design	
	Ecotoxicology & Pollution		Classics & Ancient History	
	Environmental Chemistry		Drama, Dance & Performing Arts	
	Environmental Engineering		English	
	Environmental Science		History	
	Geochemistry		Music	
	Geography			
	Geology			
	Geophysics			
	Hydrology			
	Meteorology			
	Oceanography			
	Palaeontology			