## YI, Yueyang

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Research interests	Human dynamic	mics, coupled human-natural systems, computational models.		
Education	<b>Georgia Institute of Technology</b> Online Master of Science in Computer Science		Atlanta, US Aug. 2024 – Present	
	Katholieke Universiteit LeuvenLeuven, BelgiumMaster of Science in Statistics and Data ScienceOct. 2018 – July 2023Thesis: Improving population mapping with night-time lights: a Bayesian spatio- temporal approach with SPDE-INLA.Statistics and Data Science			
	<b>University College London</b> Master of Science in Earthq. Eng. with Disa Thesis: A night-time-light-based framework flood risk assessment and mapping.		London, UK ter Mgmt. Sep. 2017 – Jan. 2019 or the large-scale monetary fluvial	
	<b>The University</b> Bachelor of Engi Thesis: <i>Smoothec</i>	<b>of Sheffield</b> neering in Civil Engineering <i>l-particle hydrodynamics modelling</i>	Sheffield, UK Sep. 2014 – June 2017 of free surface flows.	
Editorial	<b>Yi, Y.</b> and Lam, T versity in clinical of Medicine, Sing acadmedsg.20242	am, T.Y.T. (2024) 'How close are we from achieving demographic di- inical trials? Insights from Singapore' [Editorial], <i>Annals, Academy</i> <i>Singapore</i> , 53(7), pp. 407-409. doi: https://doi.org/10.47102/annals- 2024226		
Conference talks	<b>Yi, Y.</b> , Zhu, Z., Meijer, R. and Zhou, Y. (2024) 'Silent majority from rural India: Where are they now?' [Oral presentation], <i>NetMob 2024</i> . Washington, D.C., 7-9 October. Available at: https://netmob.org/book/BookAbstracts_Netmob24.pdf			
	Lam, T.Y.T., <b>Yi, Y.</b> , Choi, K.C., Lui, R.N. and Sung, J.J.Y. (2024) 'Long-term effect of colorectal cancer screening by colonoscopy vs fecal immunochemical test in Chinese population: A cohort study with a median follow-up of 14 years' [Oral presentation], <i>Digestive Disease Week 2024</i> . Washington, D.C., 18-21 May. doi: https://doi.org/10.1016/S0016-5085(24)00594-8			
Conference posters	Meijer, R., <b>Yi, Y.</b> terns in response October. Availab	<b>Y.</b> , Zhou, Y. and Zhu, Z. (2024) 'Unfolding human mobility pat- se to catastrophes' [Poster], <i>NetMob 2024</i> . Washington, D.C., 7-9 able at: https://netmob.org/book/BookAbstracts_Netmob24.pdf		

	<b>Yi, Y.</b> , To, Z., Guo, Y. and Lam, T.Y.T. (2024) 'Clinical effectiveness of artificial intelligence in optical diagnosis of diminutive colorectal lesions: A systematic review and meta-analysis' [Poster], <i>International Digestive Disease Forum 2024</i> . Hong Kong, 10-11 August. doi: https://doi.org/10.1136/gutjnl-2024-IDDF.319		
	<b>Yi, Y.</b> , To, Z., Guo, Y. and Lam, T.Y.T. (2024) 'Real-time use of artificial intelli- gence in characterisation of diminutive polyps during colonoscopy: A system- atic review and meta-analysis' [Poster], <i>Digestive Disease Week 2024</i> . Washing- ton, D.C., 18-21 May. doi: https://doi.org/10.1016/j.gie.2024.04.714		
	Lam, T.Y.T., <b>Yi, Y.</b> , Cheung, M.F.K., Goh, W.W.B. and Sung, J.J.Y. (2024) 'Acceptance and trust of artificial intelligence in clinical practice among gastroenterology nurses' [Poster], <i>Digestive Disease Week 2024</i> . Washington, D.C., 18-21 May. doi: https://doi.org/10.1016/S0016-5085(24)02523-X		
Work in progress	What factors influence the use of artificial intelligence by gastroenterology nurses in clinical practice? A cross-sectional multi-centre survey, ready to submit, with Thomas Lam.		
	Developing and validating a risk score to predict clinically significant prostate cancer among Asian men, ready to submit, with Thomas Lam.		
	Usage of Internet to promote healthy lifestyle among antenatal women: A struc- tural equation modelling approach, ready to submit, with Ying Lau.		
	Clinical effectiveness of artificial intelligence in optical diagnosis of neoplastic colorectal polyps during colonoscopy, in preparation, with Thomas Lam.		
	High-resolution population estimation exploiting census and household survey: A Bayesian spatial model with SPDE-INLA, in preparation, with Thomas Neyens.		
Research experience	Stanley Ho Big Data Decision Analytics Research Centre		
1	The Chinese University of Hong Kong Hong Kong SAR		
	Research assistant, with Prof Thomas Y.T. Lam Aug. 2023 – Present		
	Projects: risk score developments for multi-cancer screening (diagnostic per-		
	tormance analysis; cost-effectiveness analysis; clinical decision-makings); can-		
	cer risk factor associations (dose-response analysis; cohort study; case-control study): long-term retrospective study on cancer screening strategies (electronic		
	medical record analysis; survival analysis); AI for medicine (diagnostic perfor-		
	mance analysis; cost-effectiveness analysis; randomised controlled trial; meta-		
	analysis); nursing (causal analysis; survey).		

Water Equity Lab

	The University of California, Irvine	Irvine, US		
	Visiting researcher, with Prof Maura Allaire	July 2019 – Aug. 2019		
	Projects: comparative studies on economic and engineering understandings on			
	monetary risk of disasters; flood insurance popularisation (quasi-experimental			
	design with difference-in-differences and propensity score matching).			
Industry experience	United Nations ESCAP, IDD/IDS	Bangkok, Thailand		
	Intern	June 2022 – Nov. 2022		
	Projects: Asia-Pacific Information Superhighway (look-up tool for ICT-related			
	databases and publications; website development); digital climate data analy-			
	sis; digital connectivity data analysis.			
	SCOR R&D	London UK		
	Intern	Iupe 2018 = Aug 2018		
	Projects, interactive platform for estactrophic loss	Julie 2018 – Aug. 2018		
	collection, contagraphic standard establishment, quality accurace and quality			
	collection; cartographic standard establishment; quality assurance and quality			
	control; geospatial data analysis and visualisation	1).		
	Lantian Civil Engineering Technology	Nanjing, China		
	Intern	July 2016 – Aug. 2016		
	Projects: foundation pit excavation monitoring (settlement observation); pile			
	foundation testing (low-strain detection; static load experiment).			
Training	Peking University ISSS Special Training Course o	on Causal Inference 2024		
Skills	Programming			
	Proficient in: R (ANOVA linear regression generalised linear regression time			
	series models survival analysis robust statistics. Bayesian statistics mixed ef-			
	fects models, nonparametric statistics, snatial and spatiatemporal models, meta			
	analysis) SAS (sampling multivariate statistics)			
	Familiar with: Python (network science, stochastic	c models web ccropping tex-		
	tual mining interactive plotting) State (causal inference) MATLAB (basics)			
	tuai mining, interactive piotting), Stata (causai m	lefence), MATLAD (basics).		
	Software			
	Statistics: BUGS, JAGS, INLA (Bayesian statistics), JMP (experimental design).			
	Civil Engineering: AutoCAD, GSA, SPHysics, LimitState:Geo			
	Earthquake Engineering: SeismoStruct, SeismoSignal, SeismoMatch, FRACAS,			
	FLAC 2D, GaLa, REXEL, ETABS, PACT, DEEPSOIL			
	Geographic information systems: QGIS, ArcGIS.			
	Cloud: Alibaba Elastic Compute Service (ECS).			
	Productivity: Microsoft Office, R Markdown, LATEX.			
	Languages			
	Languages Mandarin (native) English (fluent) French (CEED A2)			
	manuarin (narive), English (nuent), French (CEFR	(114).		