

Research Interests of Potential Supervisors

Name	Email	Research interests
Prof Tim J Boonen	tjboonen@hku.hk	Capital allocation, insurance economics, longevity risk modelling, optimal (re)insurance, and risk sharing
Prof Y Cao	yuancao@hku.hk	Machine learning, deep learning, optimization, AI for science
Dr Harrison Cheung	hcheung4@hku.hk	Biostatistics, econometrics, investment theory and practice
Prof KC Cheung	kccg@hku.hk	Optimal reinsurance, extreme value theory, stochastic orders, external dependence
Dr Olivia Choi	ochoi@hku.hk	Quantitative analysis for management, financial markets cointegration analysis, machine learning and artificial intelligence for risk management (risk & governance)
Prof L Feng	lfeng@hku.hk	Statistical machine learning, image data analysis, high-dimensional data, tensor/matrix completion
Prof Edwin CH Fong	chefong@hku.hk	Bayesian Inference, Bayesian nonparametrics, causal inference
Prof Yu Gu	yugu@hku.hk	Survival analysis, semiparametric inference, biostatistics
Prof K Han	kaihanx@hku.hk	Computer vision, machine learning, and artificial intelligence (e.g., open-world learning, 3D vision, generative AI, foundation models, etc)
Prof Marius Hofert	mhofert@hku.hk	Copula modelling, computational statistics
Dr CW Kwan	cwkwan@hku.hk	Latent structure analysis, influential analysis
Prof Eddy Lam	hrntlkf@hku.hk	Analysis of infectious diseases; public health; medical statistics
Dr Adela Lau	adelalau@hku.hk	(1) Data Science: (i) ESG ontology, (ii) global market research (iii) contact tracking analytics (2) Artificial Intelligence: (i) Chatbot, (ii) Metaverse and VR application (iii) Image/Video Analytics (iv) Blockchain: (v) web services, (vi) search engine, (vii) cybersecurity
Dr David Lee	leedav@hku.hk	Analysis of meteorological data, multivariate dependence structures, extreme value theory
Prof Stephen Lee	smslee@hku.hk	Bootstrap inference, regression, causal inference, post-model selection inference
Dr Eric Li	ericli11@hku.hk	Algo trading, DApp, quantum computing, zero-knowledge proof
Prof GD Li	gdli@hku.hk	Machine learning methods for sequential data; high-dimensional statistical analysis; econometrics
Prof WY Li	wylsaas@hku.hk	Apply machine learning algorithms to option pricing, portfolio optimization, and optimal insurance design
Prof LQ Qu	liangqu@hku.hk	Computer vision and AI on healthcare (image generation and synthesis, federated learning, medical image segmentation, etc)
Prof C Wang	stacw@hku.hk	Applied statistics in finance and financial time series analysis
Dr KP Wat	watkp@hku.hk	Actuarial science; financial mathematics; enterprise risk management
Prof GS Yin	gyin@hku.hk	A/B testing for online experiments (applications in Amazon, Google, Meta), Clinical trial methodology (combining randomized trials with observational studies for causal inference), Bayesian adaptive design (hybrid randomized and nonrandomized studies), Survival analysis, Bayesian methods and inference, High-dimensional data, Change-point analysis, AI (computer vision and NLP), Machine learning (geometric deep learning), Medical statistics and cancer research (pharmaceutical applications)
Prof LQ Yu	lqyu@hku.hk	Medical image analysis, machine learning, computer vision, AI in healthcare (e.g., generative AI, foundation model, and multimodal learning for healthcare problems)
Dr CY Zhang	zhangcys@hku.hk	Bayesian methods; survival analysis; clinical trial design
Prof Dora Y Zhang	doraz@hku.hk	Statistical genetics, bioinformatics, biostatistics
Prof Michael MY Zhang	mzhang18@hku.hk	Machine learning, Bayesian methods, scalable computing

The University of Hong Kong
Department of Statistics and Actuarial Science

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Name	Email	Research interests
Dr ZQ Zhang	zhangz08@hku.hk	Algorithm trading, Monte Carlo simulation, option pricing
Prof K Zhu	mazhuke@hku.hk	Financial time series analysis; machine learning in finance; risk management