List of Potential Supervisors

Faculty	Email	Research Interests	Project	Dissertation
Prof. Bogdan Cautis	cautis@hku.hk	Data management, Data mining	✓	
Dr. Hubert T.H. Chan	hubert@cs.hku.hk	Algorithms, Combinatorial Optimization, Discrete Metric Spaces, Graphs and Information Networks, Security & Privacy	✓	✓
Dr. K.P. Chan	kpchan@cs.hku.hk	Artificial Intelligence, Computer Vision, Machine Learning, Facial Expression Recognition and Simulation	✓	✓
Prof. Reynold C.K. Cheng	ckcheng@cs.hku.hk	Scalable Data Science, Big Graph Data	✓	✓
Dr. T.W. Chim	twchim@cs.hku.hk	Network Security and Cryptography, Mobile Technologies and Applications, Computer Games	✓	✓
Dr. Ronald H.Y. Chung	hychung@cs.hku.hk	Cloud Computing, Artificial Intelligence, Video/Image Processing, Real-Time Processing	✓	
Prof. Giulio Chiribella	giulio@cs.hku.hk	Quantum information theory, foundations of quantum mechanics	✓	✓
Dr. Loretta Y.K. Choi	ykchoi@cs.hku.hk	VR/AR/MR, Metaverse; Motion capture & analysis, brain computer interface, haptics feedback, virtual sensing, virtual experience, virtual analytics, virtual character modeling; Visualization, computer graphics, gamification applications; Human-robot interaction, smart robots; Health/Fitness apps with wearable devices	✓	✓
Dr. K.P. Chow	chow@cs.hku.hk	Computer Forensics, Digital Investigation, Data Privacy, Cyber Security	✓	✓
Dr. C.K. Chui	ckchui@cs.hku.hk	Engineering Education, Data Mining, Cloud Computing	✓	✓
Dr. Heming Cui	heming@cs.hku.hk	Operating systems and distributed systems, including distributed big-data and parallel computing systems, distributed AI training/serving systems, blockchains, cloud computing systems, and distributed robotic learning/operating systems	✓	✓
Dr. Daniel Ebler	eblerd@hku.hk	Quantum and physics-inspired optimization, Quantum Artificial Intelligence, Quantum Computation, Quantum Causality, Foundations of Quantum Mechanics	✓	
Dr. Chao Huang	chuang@cs.hku.hk	Developing novel machine learning frameworks to tackle various challenges in Data Mining, Information Retrieval, Spatial-Temporal Data Analytics, User Behavior Modeling, Recommendation, Graph Mining, and Deep Representation Learning	✓	✓
Dr. Zhiyi Huang	zhiyi@cs.hku.hk	Theoretical Computer Science, Algorithmic Game Theory, Online Algorithm, Differential Privacy	✓	✓
Prof. Benjamin C.M. Kao	kao@cs.hku.hk	Legal Knowledge Bases, Database Management Systems, Data Mining, and Information Retrieval Systems	✓	✓
Prof. Taku Komura	taku@cs.hku.hk	Physical simulation, Character animation, 3D modelling	✓	✓
Dr. Lingpeng Kong	lpk@cs.hku.hk	Artificial Intelligence, Machine Learning, Natural Language Processing	✓	✓
Prof. T.W. Lam	twlam@cs.hku.hk	Algorithms, Bioinformatics & Big Data Analytics	✓	✓
Prof. Francis C.M. Lau	fcmlau@cs.hku.hk	Blockchain, Machine learning, Algorithms	✓	
Dr. Qi Liu	liuqi@cs.hku.hk	Natural Language Processing, Machine Learning, Artificial Intelligence, Blockchain and FinTech	✓	✓
Dr. Bill T. Luo	tluo@cs.hku.hk	Machine Learning and Data Mining, Video/Image Processing (Compression, Transportation), Video/Image Understanding (Object detection, Object tracking, Object searching)	✓	
Dr. Ping Luo	pluo@cs.hku.hk	Computer Vision, Machine Learning, Deep Learning	✓	✓
Dr. Ruibang Luo	rbluo@cs.hku.hk	- Digital Healthcare and Bioinformatics (Algorithm, Precision Medicine, Metagenomics, Literature Mining) - Applied Finance (Modeling, Data Mining, High-Performance Computing) - General Data Science (Methodology, Machine Learning, Teaching and Learning)	✓	✓
Dr. Bruno Oliveira	bruno@cs.hku.hk	Programming Languages, Modularity, Functional Programming, Object-Oriented Programming	✓	✓
Dr. Jia Pan	jpan@cs.hku.hk	Robotics and Artificial Intelligence, with a focus on developing intelligent algorithms, sensors, and machines to accomplish fully autonomous robots	✓	✓
Dr. Chenxiong Qian	cqian@cs.hku.hk	Software & System Security, Program Analysis and Model Checking	✓	✓
Dr. Juergen H. Rahmel	juergen@hku.hk	Artificial Intelligence, Financial Services	✓	
Dr. Ravishankar Ramanathan	ravi@cs.hku.hk	Quantum Information Theory, Quantum Cryptography, Device-Independent Quantum Information Processing, Foundations of Quantum Mechanics	✓	✓
Dr. Dirk Schnieders	sdirk@cs.hku.hk	Computer Vision, Machine Learning, Artificial Intelligence, Virtual Reality, Augmented Reality, Brain Computer Interface, Robotics	✓	✓
Dr. Anthony T.C. Tam	atctam@cs.hku.hk	Parallel Computing, High-speed Communication, Network Protocol Design, Congestion Control, Performance Evaluation and Benchmarking, Web Application Development, and Advanced Web	✓	✓

List of Potential Supervisors

Faculty	Email	Research Interests	Project	Dissertation
Dr. H.F. Ting	hfting@cs.hku.hk	Bioinformatics, Design and Analysis of Algorithm, Machine Learning with Applications in Finance and Trading	✔	✔
Dr. Kenneth K.Y. Wong	kykwong@cs.hku.hk	Computer vision and machine intelligence (Image super-resolution; photometric stereo; medical image analysis; face sketch synthesis; 3D human reconstruction; etc.)	✔	✔
Dr. Chenshu Wu	chenshu@cs.hku.hk	Internet of Things, Wireless Sensing and Analytics, Contactless Healthcare and Eldercare, Robotic Tracking and Perception, Indoor Localization, Mobile Computing and Applications, Human-Computer Interaction	✔	✔
Prof. Chuan Wu	cwu@cs.hku.hk	Cloud Computing, Distributed Machine Learning Systems/Algorithms, Smart Elderly Care Technologies	✔	✔
Prof. Dong Xu	dongxu@cs.hku.hk	Computer Vision, Multimedia, Machine Learning	✔	✔
Dr. Yuxiang Yang	yuxiang@cs.hku.hk	Quantum information, Quantum metrology, Quantum computation, Quantum machine learning, Quantum foundations and Mathematical physics	✔	✔
Dr. Leo C.Y. Yeung	leocyyeung@connect.hku.hk	AI, Interactive and Education Technology	✔	
Dr. Beta C.L. Yip	clyip@cs.hku.hk	Artificial Intelligence, Machine Learning, Meteorological Computing, Data Mining, Mobile applications, Computer Music Processing, Multilingual Systems	✔	
Dr. Russell S.W. Yiu	swryiu@cs.hku.hk	Cybersecurity, Application of Machine Learning to Cybersecurity, Cryptography and Data Mining	✔	
Prof. S.M. Yiu	smyiu@cs.hku.hk	Cyber Security & Cryptography, FinTech	✔	✔
Dr. Tao Yu	tyu@cs.hku.hk	Natural Language Processing	✔	✔
Prof. Y.Z. Yu	yzyu@cs.hku.hk	Computer Vision, Medical Image Analysis		✔
Dr. John T.H. Yuen	thyuen@cs.hku.hk	Blockchain, Cryptography, Security & Privacy	✔	✔
Dr. J.R. Zhang	jrzhang@cs.hku.hk	Mathematical Finance, Machine Learning, Quantitative Trading Strategies	✔	
Dr. Hengshuang Zhao	hszhao@cs.hku.hk	Computer vision, machine learning and artificial intelligence, with special emphasis on building intelligent visual systems	✔	✔
Dr. Qi Zhao	zhaoqi@cs.hku.hk	Quantum Computing, Quantum Simulation, Quantum Information, Quantum Resource Theories, Quantum Communication	✔	✔
Dr. Difan Zou	dzou@cs.hku.hk	Machine Learning, Deep Learning, Decision Making, Stochastic Modeling, Structured Data Learning, Signal Processing	✔	✔