

HKU Summer Research Programme 2024

List of Potential Mentors

Faculty / Interdisciplinary Area:

Faculty of Science

	Department / Discipline	Title	Last Name	First Name	Contact Email	Personal Homepage	Research Area(s) / Topic(s)	Remarks
1	Biological Sciences	Professor	CHOW	Billy Kwok Chong	bkcc@hku.hk	https://www.scifac.hku.hk/people/chow-billy-kwok-chong	Bioactive Peptides and G Protein-coupled Receptors Neuroendocrinology of Secretin Drug discovery	
2	Biological Sciences	Dr	ZHAI	Yuanliang	zhai@hku.hk	https://zhai95.wixsite.com/mysite 1	DNA replication and human diseases	
3	Biological Sciences	Dr	JOHNSON	Heath	hjohnson@hku.hk	https://www.johnsonlaboratory.org/	Cell signaling, optogenetics, mechanotransduction, developmental biology	
4	Biological Sciences	Dr	BAKER	David	dmbaker@hku.hk	www.thelifeisotopic.com	Coral reef ecology, biodiversity, symbiosis, restoration, stable isotope biogeochemistry	
5	Biological Sciences	Dr	ZHENG	Chaogu	cgzhen@hku.hk	www.zhenglabhku.org	Developmental neurobiology, genetics and genomics, neurodegeneration, axonal growth and regeneration	
6	Biological Sciences	Dr	GAITAN-ESPITIA	Juan Diego	jdgaitan@hku.hk	www.ibeerlab.com	Evolutionary ecology, animal/plant ecophysiology	Particularly oriented to students interested in learning skills for developing experiments and data analysis.
7	Biological Sciences	Dr	WU	Jin	jinwu@hku.hk	https://wu-jin.weebly.com/	Tropical ecology, biodiversity, plant ecophysiology, climate change, sustainability science, big Earth observation data and AI	
8	Biological Sciences	Dr	YASUHARA	Moriaki	moriakiyasuhara@gmail.com	https://moriakiyasuhara.com	Paleobiology, paleoecology, biodiversity, marine	Let's work together if you are interested in paleo!
9	Chemistry	Dr	OKURO	Kou	okuro@hku.hk	https://www.okurolabhku.com/	Soft Materials, Biomaterials, Supramolecular Chemistry / Development of Supramolecular Hydrogel Materials for Bio-applications	In this project, new hydrogel-based smart materials will be developed. Through the activity, students will acquire skills in polymer synthesis, material property evaluation, and biomolecular assays.
10	Chemistry	Dr	AU-YEUNG	Ho Yu	hoyuay@hku.hk	https://hyagroup.weebly.com/	Synthetic Chemistry/Catalytic applications of transition metal complexes supported by mechanically interlocked ligands	

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11	Chemistry	Dr	LI	Yong-Xin	yxpli@hku.hk	https://yxlilab.chemistry.hku.hk/	Chemical biology, Synthetic biology, and Drug discovery	
12	Chemistry	Dr	CHEN	Aspen X.-Y.	aspen@hku.hk	https://www.aspenchem.com/	Synthetic Organic Chemistry, Supramolecular Chemistry, Catalysis	
13	Chemistry	Professor	SUN	Hongzhe	hsun@hku.hk	https://www.bioinorg-chem.hku.hk/	Inorganic chemical biology; bioinorganic chemistry; drug development for emerging infectious diseases	
14	Chemistry	Dr	TSE	Edmund C M	ecmtse@hku.hk	https://www.etlab.hku.hk/	Electrocatalysis, Renewable Energy, Sustainable Upcycling, Green Production, Clean Fuel	
15	Chemistry	Dr	JIANG	Haibo	hbjiang@hku.hk	www.haibojianglab.com	Biological Imaging, Cell Biology	
16	Chemistry	Professor	LI	Xiaoyu	xiaoyuli@hku.hk	https://lixigroup.wixsite.com/lixy	Chemical biology/drug discovery	
17	Earth Sciences	Dr	KHAN	Nicole	nskhan@hku.hk	https://www.sealevelchangelab.com/	sea-level change, coasts, storms, wetlands, blue carbon storage	
18	Earth Sciences	Dr	LI	Weiran	weiranli@hku.hk	https://weiranli.wixsite.com/alex	Volcanology, Petrology, Geochemistry	
19	Earth Sciences	Dr	ZHANG	Binzheng	binzh@hku.hk	www.binzh.net	Planetary and Space Sciences	
20	Mathematics	Dr	WONG	Tak Kwong	takkwong@hku.hk	https://hkumath.hku.hk/MathWWW/people.php?faculty.takkwong https://hkumath.hku.hk/~takkwong	Nonlinear partial differential equations, analysis, applied mathematics, control theory, optimization, fluid dynamics, kinetic theory, mathematical biology, mathematical economics/finance, mean-field type control problems, and mean-field games	
21	Mathematics	Dr	LI	Guanglian	lotusli@maths.hku.hk	https://hkumath.hku.hk/MathWWW/people.php?faculty.lotusli	Homogenization, Multiscale Finite Element Methods (MsFEM), Generalized Multiscale Finite Element Methods (GMsFEM), Model Order Reduction (MOR), High Dimensional Approximation; Uncertainty Quantification	
22	Mathematics	Dr	CHAN	Kei Yuen	kychan@maths.hku.hk	https://hkumath.hku.hk/MathWWW/people.php?faculty.kychan	Representation Theory, Algebra, Number Theory, Group Theory	

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23	Physics	Dr	LIM	Jeremy	jjlim@hku.hk		Astrophysics/Gravitational lensing	
24	Physics	Dr	YANG	Yi	yiyg@hku.hk	www.yiyg.hku.hk	Optical physics and nanophotonics	
25	Statistics & Actuarial Science	Dr	YU	Lequan	lqyu@hku.hk	https://yulequan.github.io/	Medical Image Analysis; Multimodal Learning; Machine Learning; Computer Vision; Clinical NLP; AI in Healthcare	
26	Statistics & Actuarial Science	Dr	QU	Liangqiong	liangqqu@hku.hk	https://liangqiong.github.io/	AI on healthcare, Computer Vision	
27	Statistics & Actuarial Science	Dr	BOONEN	Tim	tjboonen@hku.hk	https://saasresearch.hku.hk/~tjboonen/	Actuarial science, capital allocation, game theory, insurance economics, optimal (re)insurance, longevity risk modelling, and risk sharing.	
28	Statistics & Actuarial Science	Dr	HAN	Kai	kaihanx@hku.hk	https://www.kaihan.org	computer vision, machine learning, and artificial intelligence	
29	Statistics & Actuarial Science	Dr	FENG	Long	lfeng@hku.hk	https://lfengstat.github.io/	Statistical Machine Learning	