

List of CityUHK scholars and projects which have received fundings from the National Natural Science Foundation of China (NSFC) for the year 2024

Funding	Scholar	Project title	Amount of funding (RMB)
National Science Fund for Distinguished Young Scholars	Professor Xu Chenjie , Department of Biomedical Engineering	Microneedle biomedical devices for drug delivery and biosensing	4,000,000
Key Programme	Professor Wang Wenxiong , School of Energy and Environment	The biokinetic behaviors and environmental toxicity effects of micro-/nano-plastics in typical biological functional groups	2,300,000
Excellent Young Scientists Fund	Professor Hou Junhui , Department of Computer Science	High-dimensional Visual Information Reconstruction and Processing	2,000,000
	Professor Ma Junzhang , Department of Physics	Angle Resolved Photoemission Spectroscopy Characterisation of Quantum Materials	
	Professor Zhang Zhedong , Department of Physics	Quantum-light ultrafast spectroscopy for molecules	
General Programme	Professor Cui Liyuan , Department of Economics and Finance	Double heterogeneity in cross-sectional and time-varying modeling mechanisms with its application to conditional asset pricing models	400,000
	Professor Kwok Chun-kit , Department of Chemistry	Development of novel RNA G-Quadruplex (rG4)-PROTAC chimeras for rG4 binding protein degradation and gene regulation	500,000

	Professor Tsang Sai-wing , Department of Materials Science and Engineering	Investigating the Correlation Between Molecular Structure and Charge-Transfer Characteristics in Y-series Nonfullerene Acceptors by Electroabsorption Spectroscopy	500,000
	Professor Zhang Qichun , Department of Materials Science and Engineering	Research and Application of Lithium Metal Anode Protective Materials with Amphiphilic Ether and Perfluoroalkyl Chains	500,000
	Professor Sunny Wang Xin , Department of Physics	Theoretical Studies on optimal control of silicon-based quantum devices	520,000
	Professor Zhang Zhedong , Department of Physics	Theoretical study of relaxation dynamics of molecular polaritons using multidimensional spectroscopy	530,000
	Professor Wu Wei , School of Energy and Environment	Proactive risk-preparedness and robust consequence-mitigation for Cyber-Physical Systems against coordinated cyberattacks	480,000
Young Scientists Fund	Professor Jiao Dengwu , Department of Architecture and Civil Engineering	Actively Controlling the Microstructure of Interfacial Transition Zone in Steel Fiber Reinforced Mortar based on Magneto-Rheological Response	300,000

	Professor Yin Xianfei , Department of Architecture and Civil Engineering	Research on data-driven intelligent diagnosis of underground sewer pipelines defects and spatio-temporal cascading mechanism	
	Professor Fu Bing , Department of Biomedical Engineering	Live-cell exploration of CpxA/CpxR dynamics in signal transduction for antibiotic resistance by super-resolution single-molecule imaging	
	Dr Hou Chaojian , Department of Biomedical Engineering	Electrolytic hydrogen supply mechanism of magnetic integrated microrobot system for targeted hydrogen therapy	
	Professor Chen Lingxi , Department of Biomedical Sciences	Integrated Spatial Transcriptome Analysis and Algorithms for AI-Enabled Cancer Diagnosis	
	Dr Wu Yandi , Department of Biomedical Sciences	The Role and Mechanism of E2F2 in Endothelial Cell Dysfunction in Atherosclerosis	
	Professor Su Wen , Department of Biostatistics	Optimal Decision Path Research Based on Right-Censored Survival Data	
	Professor Xu Jijian , Department of Chemistry	Research on Magnesium Chloride-Based Cathode Materials and Magnesium Storage Mechanisms for High Energy Magnesium Batteries	

	Professor Dong Minjing , Department of Computer Science	Adversarially Robust Vision Transformer based on Randomized Defense Strategy
	Professor Wu Gengbo , Department of Electrical Engineering	Research on Real-Time Multi-Harmonic Microwave Imaging Based on Space-Time Modulated Metasurface Antennas
	Professor He Jingyu , Department of Management Sciences	Illusion of stock return predictability: find the heterogeneity
	Professor Li Nan , Department of Materials Science and Engineering	Design of interfacial polymer materials for strain regulation in perovskite solar cells
	Dr Zhu Feng , Department of Materials Science and Engineering	High spatiotemporal-resolved investigation of space charge layers dynamics at the interface between electrodes and solid electrolytes
	Professor Zhao Lina , Department of Mathematics	Polygonal DG methods for fluid-structure interaction
	Professor Duan Penghao , Department of Mechanical Engineering	Thermo-fluid Studies of Film Cooling in Transonic High-Pressure Turbine based on Multi-scale Method
	Dr Xu Yijun , Department of Neuroscience	A novel therapeutic strategy for treating Alzheimer's Disease by targeting microglial histamine H4 receptor and inflammatory response

	Professor Zhang Ge, Department of Physics	Correlation between generalization error and statistical- physical entropy in neural networks	
	Professor Liu Cheng, Department of Systems Engineering	Investigation of Fatigue Crack Damage Diagnosis in Aerospace Composite Materials: A Data- Driven Approach Integrating Physical Mechanisms	
	Professor Jungeun Chu, School of Energy and Environment	Interaction between marine heatwaves and tropical cyclones in the South China Sea: Implications for future change and potential impacts	
	Professor Qin Yiming, School of Energy and Environment	Atmospheric Organic Peroxides: Multiphase Detection Development and Reaction Mechanism	
	Dr Liu Mengyang, State Key Laboratory of Marine Pollution	Processes and Mechanisms of Ocean-Current Regulation on the Fate of PAHs in the Upper Western Pacific Ocean	