

## Appendix

### CUHK professors and research projects funded

#### **National Science Fund for Distinguished Young Scholars**

Professor	Project title	Amount of funding (RMB)
<b>Professor Gong Xiting</b> Professor, Department of Decisions, Operations and Technology	Stochastic Inventory Management	2,800,000
<b>Professor Jason Yam Cheuk-sing</b> Professor, Department of Ophthalmology and Visual Sciences	Myopia	4,000,000
<b>Professor Yeung Ying-yeung</b> Professor, Department of Chemistry	Asymmetric Halogenation	4,000,000
<b>Professor Duan Renjun</b> Professor, Department of Mathematics	Partial Differential Equations	2,800,000
<b>Professor Yan Renbin</b> Professor and Global STEM Scholar, Department of Physics	Large Scale Spectroscopy Survey and Astrophysics of the Interstellar Medium	4,000,000
<b>Professor Wu Yilin</b> Professor, Department of Physics	Living Matter Physics and Living Materials Science	4,000,000
<b>Professor Shi Zhentao</b> Associate Professor, Department of Economics	Econometrics	2,800,000

#### **Excellent Young Scientists Fund**

Professor	Project title	Amount of funding (RMB)
<b>Professor Chen Zhi</b> Assistant Professor, Department of Decisions, Operations and Technology	Theory and Applications of Robust Optimisation	2,000,000
<b>Professor Philip Zhang Renyu</b> Associate Professor, Department of Decisions, Operations and Technology	Data-driven Platform Operations Management	2,000,000
<b>Professor Ke Te</b>	Theoretical Research on	2,000,000

Associate Professor, Department of Marketing	Digital Economy	
<b>Professor Xie Wensi</b> Associate Professor, Department of Finance	Bank Financial Reporting, Financial Inclusion and Financial Stability	2,000,000
<b>Professor Duan Liting</b> Assistant Professor, Department of Biomedical Engineering	Synthetic Biology	2,000,000
<b>Professor Zhou Renjie</b> Associate Professor, Department of Biomedical Engineering	Quantitative Phase Microscopy and Applications	2,000,000
<b>Professor Chen Sijie</b> Vice-Chancellor Associate Professor, School of Life Sciences	Small-molecule Fluorescent Bio-probes	2,000,000

### Young Scientists Fund

Professor	Project title	Amount of funding (RMB)
<b>Professor Wang Zijia</b> Assistant Professor, Department of Finance	Generalised Drawdown-based Risk Indicators and Their Applications in Finance and Insurance	300,000
<b>Professor Lai Jiewen</b> Research Assistant Professor, Department of Electronic Engineering	Research on Key Technology of Coupled Tendon-driven Continuum Robots for Robot-assisted Minimally Invasive Surgery	300,000
<b>Professor Huang Chaoran</b> Assistant Professor, Department of Electronic Engineering	Development of High-performance Optical Neural Network and its Programming Algorithm	300,000
<b>Professor Su Qi</b> Research Assistant Professor, Department of Medicine and Therapeutics	Function and Mechanism of Akkermansia Muciniphila in Alleviating Diarrhea-predominant Irritable Bowel Syndrome via the Inosine-A2AR-PPAR $\gamma$ -AQP1 Pathway	300,000
<b>Professor Xu Zhilu</b> Research Assistant Professor, Department of Medicine and Therapeutics	Investigating the Role of Roseburia Intestinalis in Prevention of Obesity and Diabetes	300,000
<b>Professor Wang Sishuo</b> Research Assistant Professor, Department of Microbiology	Development of a Molecular Clock Approach under Complex Substitution Models	300,000

	and its Application in Dating Pathogen Evolution	
<b>Professor Liao Rui</b> Research Assistant Professor, Department of Surgery	Molecular Mechanistic Study on ITNK-cell Exhaustion Regulated by the mTOR Signalling through H3K18 Lactylation Modifications	300,000
<b>Professor Huang Lingcao</b> Research Assistant Professor, Institute of Space and Earth Information Science	Using Vision Language Models and Remote Sensing to Map Permafrost Degradation in the Arctic and Analysing its Spatial Distribution	300,000
<b>Professor Gary Choi Pui-tung</b> Vice-Chancellor Assistant Professor, Department of Mathematics	Efficient Algorithms for Surface Density-equalising Maps	300,000
<b>Professor Xue Haoran</b> Assistant Professor, Department of Physics	Designing Electromagnetic Topological Edge States Using Machine Learning	300,000
<b>Professor Zhai Shixian</b> Assistant Professor, Department of Earth and Environmental Sciences	Improving the Parameterisation Scheme of Aerosol Size Distributions and Assessing its Impacts on Ground-level Ozone Simulation in China	300,000