## Participants of Undergraduate Research Fellowship (URFP) Programme

2023-24

Name	Curriculum	Year	Project Title of Project/ Directed Studies Course	Supervisor of Project/ Directed Studies Course	Project Title of Summer Research Internship	Internship Supervisor
Chan Chun Lai*	BSc (4)	4	Tumor immune microenvironment (TIME) is associated	Prof Rio Ryohichi Sugimura, School of		
			with the survival outcome and progression in triple negative breast cancer	Biomedical Sciences		
Choi Hin Hang	BSc (4)	4	Investigating the impact of alternative splicing in sleep	Prof Chaogu Zheng, School of Biological		
			regulation of C. elegans	Sciences		
Leung Chi Ho	BSc (4)	4		Prof Timothy C Bonebrake, School of		
Leung Ho Chi	BSc (4)	4	freshwater dwarf shrimp Caridina cantonensis Desymmetric Synthesis of 4,4'-Bis(oxazoline) Ligands and	Biological Sciences Prof Zhongxing Huang, Department of		
Leung no Chi	B3C (4)	4	Their Applications	Chemistry		
Leung Sin Ying	BSc (4)	4	Study of the effect of H3K79me2-Menin interaction on the		Study of the Interaction between H3K79me2 and Menin	Prof Jason Wing Hon Wong, School of
0 0			regulation of alternative splicing	Biomedical Sciences	through Integrated Analysis of ChIP-seq and RNA-seq	Biomedical Sciences
Li Kau Chun	BSc (4)	4	Drug Target Identification via Energy Transfer	Prof Chi Ming Che, Department of		
				Chemistry		
Li Wai Lam Verna	BSc (4)	4	Study of how GEN1 endonuclease limits cGAS activation and suppresses innate immune response	Prof Gary Y W Chan, School of Biological		
Lu Yudi	BSc (4)	3	Target Identification of Traditional Chinese Medicine	Sciences Porf Xiaoyu Li, Department of Chemistry	Target Identification of Traditional Chinese Medicine	Porf Xiaoyu Li, Department of Chemistry
Luo Yongqi	BSc (4)	4		Prof Raymond C C Chang, School of		
			Microvascular Endothelial Cells During Systemic Inflammation	Biomedical Sciences		
Mok Yun Kam	BSc (4)	4	Atroposelective Synthesis of Axially Chiral Biaryl	Prof Zhongxing Huang, Department of	Atroposelective Synthesis of Axially Chiral Biaryl	Prof Zhongxing Huang, Department of
			Aldehydes via Reductive Desymmetrization	Chemistry	Compounds	Chemistry
Wong Ho Cheong	BSc (4)	4	Offshore Buried Paleochannels and Their Influences on		Offshore Buried Paleochannels and Their Influences on	
			Groundwater and Seawater Exchange in the Pearl River	Sciences	Groundwater and Seawater Exchange in the Pearl River	Earth Sciences
			Estuary		Estuary	
Wu Jiaxin	BASc(AppliedAI) (4)	4	Uncertainty estimation of large language models in	Prof Yizhou Yu, Department of Computer		-
X7' 77' +	Dia (i. l. line (i)		medical question answering	Science		
Xiao Ziyan*	BASc(AppliedAI) (4)	4	Multi-Modal Representation Learning and its Application	Actuarial Science		Prof Lequan Yu, Department of Statistics
			in Healthcare: Applying Deep Residual Shrinkage	Actuarial Science		& Actuarial Science
			Network in Detecting Sleep Apnea Based on BCG signals		Shrinkage Network in Detecting Sleep Apnea Based on BCG signals	
Xue Luhao	BSc (4)	4	Galerkin Proper Orthogonal Decomposition Method for	Prof Zhiwen Zhang, Department of	Deep particle method and invariant measures for	Prof Zhiwen Zhang, Department of
			Differential Equations	Mathematics	stochastic dynamic systems	Mathematics
Yee Pak On Patrick	BSc (4)	4		Prof Man Lung Fung, School of Biomedical		
71 37	DG (4)	<u> </u>	animal model	Sciences		
Zhang Xinyuan	BSc (4)	4	From Fisher to K-FAC: Navigating Optimization in Foundation Models	Prof. Xiaoming Yuan, Department of Mathematics		
Zhou Polly	BSc (4)	4	TME Lego: Assembloids Modeling the Solid Tumour	Prof Rio Ryohichi Sugimura, School of		
	200 (1)	Ľ	Microenvironment	Biomedical Sciences		

Name	Curriculum	Year	Project Title of Project/ Directed Studies Course	Supervisor of Project/ Directed Studies	Project Title of Summer Research Internship	Internship Supervisor
				Course		
Chan Xiao Jun*	BSc (4)	4	Applying machine learning algorithms to enhance wildfire	Dr Jin Wu, School of Biological Sciences		
			prediction in Alaska	-		
Chow Cheuk Ying	BSc (4)	4	Modeling pathogenesis of craniofacial disorders using	Dr. Martin C H Cheung, School of	Modeling pathogenesis of craniofacial disorders using	Dr. Martin C H Cheung, School of
Tweety			patient-specific urine-derived stem cells	Biomedical Sciences	patient-specific urine-derived stem cells	Biomedical Sciences
Djan Matthew	BSc (4)	4	Development and characterization of ID8 Trp53-/- cell line	Prof Alice S T Wong, School of Biological		
			for improved murine model of HGSOC under ascitic fluid	Sciences		
			shear stress			

Kang Liang	BSc (4)	4	Investigating the Structural Basis of Human Chromosome Replication and Epigenetic Inheritance by Using Cryo-EM		Investigating the Structural Basis of Nucleosome Assembly Using Cryo-EM	Prof Eva Nogales, Department of Molecular and Cell Biology, University of California Berkeley
Lin Yen Hsu	BSc (4)	4	Design and Synthesis of Gold(I) Complexes with Thiophene-Based Alkynyl Ligands and Their Supramolecular Studies	Prof Vivian W W Yam, Department of Chemistry		
Liu Yiming	BSc (4)	4	Apply a new approach to cluster algebra	Prof Jianghua Lu, Department of Mathematics		
Pang Wing Kwan*	BSc(ActuarSc) (4)	4	Multi-task machine learning for joint diagnosis and prognosis of human cancers	Dr Lequan Yu, Department of Statistics & Actuarial Science	Dependence models in life contingencies	Prof K. C. Cheung, Department of Statistics & Actuarial Science
Wong Clara Shania	BSc (4)	4	Unbiased Selection of DNA-Encoded Libraries on Live Cells	Prof Xiaoyu Li, Department of Chemistry		
Yun Ze	BSc (4)	4	Finiteness of Mordell-Weil Groups of Elliptic Modular Surfaces	Prof Ngaiming Mok, Department of Mathematics		
Zhang Hongzhuo	BSc (4)	4	Investigating Measles Virus DI-RNA as a Potential Vaccine Adjuvant	Prof Dong-Yan Jin, School of Biomedical Sciences	Investigating Measles Virus DI-RNA as a Potential Vaccine Adjuvant	Prof Dong-Yan Jin, School of Biomedical Sciences

2021	22

Name	Curriculum	Year	Project Title of Project/ Directed Studies Course	Supervisor of Project/ Directed Studies Course	Project Title of Summer Research Internship	Internship Supervisor
Cham Ki Ki	BSc (4)	4	Role of Parkin E3 ubiquitin ligase on Influenza A virus protein PB1-F2-mediated innate immune signaling	Prof Dong-Yan Jin, School of Biomedical		
				Sciences		
Chan Chin Tung	BSc (4)	4	Adaptations of Desmos chinensis (Annonaceae) fruits for independent dispersal of seeds	Prof Richard Saunders, School of Biological		
Chan Ching Si	BSc (4)	4	Understanding the physiological, behavioral and molecular	Sciences		
Chan Ching Si	B3C (4)	4	effects of antidepressant drugs on marine organisms	Biological Sciences	-	
Chan Pak Hop	BSc(ActuarSc) (4)	3	Limiting Properties of ERD"O S-RÉNYI Graphs	Prof Jeff J Yao, Department of Statistics &	Limiting properties of Erdős-Rényi graphs	Prof Jeff J Yao, Department of Statistic
				Actuarial Science		& Actuarial Science
Garg Anahita	BSc (4)	4	6	Dr Jetty C Y Lee & Dr Olivier Habimana,		
			fats in plants and humans	School of Biological Sciences		
Karim Kazi Neha	BSc (4)	4	Molecular cloning, tissue distribution and functional	Prof Anderson O L Wong, School of		
			studies of phoenixin in fish model	Biological Sciences		
Li Lok Ka	BSc (4)	4		Dr Chi Bun Chan, School of Biological	Relationship between AMPK-dependent BDNF	Dr Chi Bun Chan, School of Biologica
			and KLF15 on fatty acid oxidation in skeletal muscle	Sciences	pathway and KLF15 on fatty acid oxidation in skeletal muscle	Sciences
Liu Xinqi	BSc (4)	4	The role of extracellular adenosine signaling on the	Prof Jiandong Huang, School of Biomedical		
			immune microenvironment of HCC	Sciences; Dr Carmen C L Wong,		
				Department of Pathology		
Mia Md Bayezid	BSc (4)	4	GEN1 in processing recombination and replication intermediates	Dr Gary Y W Chan, School of Biological Sciences	GEN1 in processing recombination and replication intermediates	Dr Gary Y W Chan, School of Biologie Sciences
Ouyang Xiangyu	BSc (4)	4	Localization of the FYVE Domains of Spire1 and Spire2	Prof Michael S Y Huen, School of	Localization of the FYVE Domains of Spire1 and	Prof Michael S Y Huen, School of
			Proteins at Microirradiation-induced DNA Damage Sites	Biomedical Sciences	Spire2 Proteins at Microirradiation-induced DNA Damage Sites	Biomedical Sciences
Shah Aashana Chetan	BSc (4)	4	Quantifying the Metastatic Propensity of Cancer Cells that	Prof Alice S T Wong, School of Biological	Understanding the difference in gene expression that	Prof Alice S T Wong, School of
		-	Undergo Peritoneal Metastasis as a process	Sciences	underlies cancers that undergo peritoneal metastasis as	Biological Sciences
					a process	
Singhal Kush	BSc (4)	4	Frieze Patterns arising from Dynkin Diagrams	Prof Jianghua Lu, Department of Mathematics		
Siu Tsz Ho *#	BSc (4)	4	Development of Chemiluminescent Probes for Detecting		Development of Chemiluminescent Probes for	Prof Dan Yang, Department of Chemis
		-	Reactive Oxygen Species		Detecting Reactive Oxygen Species	
Fan Tixuan	BSc (4)	3	Edge states in graphene nanoribbon	Prof Wang Yao, Department of Physics	Edge states in graphene nanoribbon	Prof Wang Yao, Department of Physics
Tang Tze Tung	BSc (4)	4	Characterisation of Mitochondrial Proteome Changes	Prof Dong-Yan Jin, School of Biomedical	Characterisation of Mitochondrial Proteome Changes	Prof Dong-Yan Jin, School of Biomedi
			during SARS-CoV-2 ORF9b Expression by Rapid Immunopurification	Sciences	during SARS-CoV-2 ORF9b Expression by Rapid Immunopurification	Sciences
Wang Zihan	BSc (4)	4	Planar Cell Polarity (PCP) is Unlikely Transduced	Prof Jiandong Huang, School of Biomedical		Prof Jiandong Huang, School of
-			Through Frizzled-Vangl Interaction	0 0	Through Frizzled Vangl Trans interaction	Biomedical Sciences

Wong Kwan Yuen *	BSc (4)	4	Investigation of gold complexes as anti-cancer agent	Prof Chi Ming Che, Department of		
				Chemistry		
Xiang Jie	BSc (4)	4	Exploring environmental control of photosynthesis capacity between temperate deciduous and evergreen trees	Di vin via, bensoi or Diological berenees	Quantitative assessments of differential physiological trait acclimations of deciduous vs. evergreen trees across large environmental gradients in the temperate regions through meta-analysis	Dr Jin Wu, School of Biological Sciences
Xu Xinshu	BSc (4)	4	Characterization of sPDZD2-GPR161 interaction in the	Dr Kwok Ming Yao, School of Biomedical	Characterization of sPDZD2-GPR161 interaction in the	Dr Kwok Ming Yao, School of
			negative regulation of Hedgehog signaling	Sciences	negative regulation of Hedgehog signaling	Biomedical Sciences
Ying Yui Wang	BSc (4)	4	Fire Weather Indices for Hong Kong and Future Change	Dr Jed Oliver Kaplan, Department of Earth		
				Sciences		
Zhang Jiahao	BSc (4)	4	Study of physics-informed deep neural networks in solving	Dr Zhiwen Zhang, Department of		
			partial differential equations	Mathematics		
Zhang Maoqi	BSc (4)	4	Application of A Machine Learning Framework that	Dr Guanglian Li, Department of	Comparison of Numerical Methods of Computation of	Dr Guanglian Li, Department of
			accelerates the solution of ODEs and PDEs	Mathematics	Differential Equations	Mathematics

Name	Curriculum	Year	Project Title of Project/ Directed Studies Course	Supervisor of Project/ Directed Studies Course	Project Title of Summer Research Internship	Internship Supervisor
Chan Alistair Kai Chak	BSc (4)	4	Combination therapy in nanoparticles encapsulating curcumin against Alzheimer's Disease	Dr Aviva S F Chow, Department of Pharmacology and Pharmacy; Dr Dong-Yan Jin, School of Biomedical Sciences		
Chan Timothy	BSc (4)	3	Detecting alternative promoter usage in hepatocellular carcinoma and nasopharyngeal carcinoma using 5'-biased sequencing data	Dr Joshua W K Ho, School of Biomedical Sciences		
Cheung Chin Shek	BSc (4)	4	Methods in the study of intestinal microbiota: in vitro colon model and in vivo samples		Optimization and validation of cholesterol and oxysterols measurement in HepG2 cells using LC- MS/MS	Dr Carlos Gomez Gallego, School of Medicine, University of Eastern Finland
Du Zhixu	BSc (4)	4	Sign Language Recognition	Prof Michael K P Ng, Department of Mathematics	Learning Invariant Information in Machine Learning	Prof Kangwook Lee, Department of Electrical and Computer Engineering, University of Wisconsin-Madison
Gupta Saumya	BSc (4)	4	Testing the effect of ocean acidification on the camouflaging behavior of sea urchin Salmacis sphaeroides	Dr Bayden Russell, School of Biological Sciences		
Kim Sehong	BSc (4)	4	Unravelling the Effect of Maph-1.3 on ALM Touch Receptor Neurons of Caenorhabditis elegans	Dr Chaogu Zheng, School of Biological Sciences	Homology-based search for microtubule associated proteins in Caenorhabditis elegans	Dr Chaogu Zheng, School of Biological Sciences
Lai Wenjing	BSc (4)	4	Understanding the molecular mechanism of congenital scoliosis	Dr Bo Gao, School of Biomedical Sciences		
Li Kam Yun	BSc (4)	4	Mesoporous chiral metal organic framework (CMOF) for heterogenous asymmetric photocatalyst	Dr Jian He, Department of Chemistry	Mesoporous chiral metal organic framework (CMOF) for heterogenous asymmetric photocatalyst	Dr Jian He, Department of Chemistry
Li Pak Yi	BSc (4)	4	Exploring the methods of increasing the provably secure key rate in quantum cryptography	Prof Hoi Fung Chau, Department of Physics	**	
Lim Hui Yuan	BSc (4)	4	Modelling Alzheimer's and Parkinson's Disease in C. Elegans	Dr Chaogu Zheng, School of Biological Sciences		
Lou Yuchen*	BSc (4)	3	First order algorithms for optimization problems in data science	Prof Xiaoming Yuan, Department of Mathematics	First Order Algorithms for Optimization and Zeroth- order Optimization	Prof Wotao Yin, Department of Mathematics, The University of California, Los Angeles
Szeto Dei Men*	BSc (4)	4	Investigating the role of DLC1-i1 and the molecular regulation of its expression in embryonic chick spinal motor neurons using CRISPR/Cas9 genome-editing approach	Biomedical Sciences	Investigating the role of DLC1-i1 and the molecular regulation of its expression in embryonic chick spinal motor neurons using CRISPR/Cas9 genome-editing approach	Dr Martin C H Cheung, School of Biomedical Sciences
Tsang Hiu Yu	BSc (4)	4		Dr Simon Y W Sin, School of Biological Sciences	**	
Yip Ka Hei Anson	BSc (4)	5	Assessing Functional Connectivity of Urban Green Spaces for Butterflies in Highly Urbanized Landscape	Dr Timothy C Bonebrake, School of Biological Sciences		-
Zhang Xiaotian	BSc (4)	4	Identification and Characterization of Vangl2 Interactome Using Proximity-dependent Biotinylation		Identification and Characterization of Vangl2 Interactome Using Proximity-dependent Biotinylation	Dr Bo Gao, School of Biomedical Sciences

Zhang Zheng	BSc (4)	3	The impact of COVID-19 epidemic on the conservation	Dr Timothy C Bonebrake, School of	A theoretical framework for wildlife consumption	Dr Timothy C Bonebrake, School of
			status of pangolins	Biological Sciences	motivation studies	Biological Sciences
Zheng Yahuan*#	BSc(ActuarSc) (4)	4	Parameter Estimation for Reflected Fractional Ornstein-	Prof Jeff Jianfeng Yao, Department of	On the Critical Behavior of Erdős-Rényi Random	Prof Jeff Jianfeng Yao, Department of
			Uhlenbeck Process	Statistics & Actuarial Science	Graphs	Statistics & Actuarial Science

2019-20						
Name	Curriculum	Year	Project Title of Project/ Directed Studies Course	Supervisor of Project/ Directed Studies Course	Project Title of Summer Research Internship	Internship Supervisor
Chiu Pak Wing	BSc (4)	4	The transcriptional regulation of Irx3 and Irx5 in mouse inner ear	Prof Mai Har Sham, School of Biomedical Sciences		
Kong Wang Yeuk	BSc (4)	4	Asymmetric (4+3) cycloaddition of epoxy enol silane with dienes catalyzed by Chiral Binaphthyl Disulfonic Acid	Prof Pauline Chiu, Department of Chemistry	Asymmetric (4+3) cycloaddition of epoxy enol silane with dienes catalyzed by Chiral Binaphthyl Disulfonic Acid and Derivatives	Prof Pauline Chiu, Department of Chemistry
Lam Si Yu	BSc (4)	4	Determination of Breeding Gounds of the Siberian Rubythroat and Yellow-Breasted Buntings with Stable Isotopes and Geolocator Tracking	Dr Timothy C Bonebrake & Dr Caroline Dingle, School of Biological Sciences		
Liang Shuang	BSc (4)	4	Algebraic and analytic methods on complex algebraic geometry	Prof Ngai Ming Mok, Department of Mathematics		
Sun Xianlin	BSc(ActuarSc) (4)	4	Bootstrap post-model selection inference under a general framework	Prof Stephen M S Lee, Department of Statistics & Actuarial Science		
Tang Xun	BSc (4)	3	Adaptive numerical methods for long-time integration and model reduction with applications in computing effecitve diffusivity and Anderson localization	Dr Zhiwen Zhang, Department of Mathematics	Demonstration of generic Quantum controllability under QAOA setting	Prof Lin Lin, Department of Mathematic University of California Berkeley
Tsang Kin Ming	BSc (4)	4	Representations of integers by mixed sums of weighted m- gonal numbers and squares	Dr Benjamin R Kane, Department of Mathematics		
Wong Yin Pok	BSc (4)	4	Synthesis of Luminescent Metal Complexes and their Functional Studies for Sensing	Prof Vivian W W Yam, Department of Chemistry	characterization of lanthanide complexes	Dr Rebecca Abergel, Department of Nuclear Engineering, University of California Berkeley
Xu Hongting	BSc (4)	4	The Role of ISM1 in hematopoiesis	Prof Zhongjun Zhou, School of Biomedical Sciences		
Xu Wan	BSc (4)	4	Elucidating the Role of SOX10 in Neuroblastoma	Dr Martin C H Cheung, School of Biomedical Sciences		

Sc(4)					
Sc(4)			Studies Course		
	4	Role of Long Non-coding RNAs in Cancer Stem Cells	Dr Jiangwen Zhang, School of Biological	Role of Phosphorylation of Ybx1 in the Translation	Prof Karuna Sampath, Warwick Medical
			Sciences	Control of Maternal sqt RNA and Nodal Signaling	School, The University of Warwick
				Pathway in Zebrafish Embryogenesis	
Sc(4)	4	Use of CombiGEM-CRISPR in screening potential novel	Dr Alan S L Wong, School of Biomedical		
		drug combinations for liver cancer	Sciences		
Sc(4)	4	Role of TRPC1-induced Ca2+-signaling in neuromuscular	Dr Chi Wai Lee, School of Biomedical	Role of TRPC1-induced Ca2+-signaling in	Dr Chi Wai Lee, School of Biomedical
		synapse development	Sciences	neuromuscular synapse development	Sciences
Sc(4)	4	Using transparent brain to investigate spreading of	Dr Raymond C C Chang, School of	Using neuronal tracing and passive transparent brain to	Dr Raymond C C Chang, School of
		neurodegeneration in Parkinson's disease	Biomedical Sciences	visualize neuronal pathway	Biomedical Sciences
Sc(4)	4	IAV PB1-F2 cytotoxic sequence mediates NLRP3	Prof Dong-Yan Jin, School of Biomedical	Influenza A virus PB1-F2 cytotoxic motif promotes self	Prof Dong-Yan Jin, School of Biomedical
		inflammasome activation via oxidative stress induction	Sciences	aggregation to elicit NLRP3 dependent IL-1β release	Sciences
Sc(4)	4	Oviposition preference and thermal tolerance of stag	Dr Timothy C Bonebrake, School of		
		beetles (Family: Lucanidae)	Biological Sciences		
Sc(4)	4	Chloroplast genomes comparison of mycoheterotrophic	Prof Richard Saunders, School of Biological		
		Exacum paucisquamum and autotrophic Exacum	Sciences		
		tetragonum			
Sc(4)	4	Autonomously-produced synthetic push-pull motif	Dr Julian A Tanner, School of Biomedical	Autonomously-produced synthetic push-pull motif	Dr Thomas Ouldridge, Department of
			Sciences		Bioengineering, Imperial College London
Sc Sc Sc	c:(4)   c:(4)   c:(4)   c:(4)   c:(4)   c:(4)	x(4) 4   x(4) 4   x(4) 4   x(4) 4   x(4) 4   x(4) 4	drug combinations for liver cancer       ct4     Role of TRPC1-induced Ca <sup>2+</sup> -signaling in neuromuscular synapse development       ct4     Using transparent brain to investigate spreading of neurodegeneration in Parkinson's disease       ct4     4     Using transparent brain to investigate spreading of neurodegeneration in Parkinson's disease       ct4     4     Using transparent brain to investigate spreading of neurodegeneration in Parkinson's disease       ct4     4     VPB1-F2 cytotoxic sequence mediates NLRP3 inflammasome activation via oxidative stress induction       ct4     4     Oviposition preference and thermal tolerance of stag beetles (Family: Lucanidae)       ct4     4     Chloroplast genomes comparison of mycoheterotrophic Exacum tetragonum       ct4     4     Autonomously-produced synthetic push-pull motif	drug combinations for liver cancer Sciences   c(4) 4 Role of TRPC1-induced Ca <sup>2+</sup> -signaling in neuromuscular synapse development Dr Chi Wai Lee, School of Biomedical Sciences   c(4) 4 Using transparent brain to investigate spreading of neurodegeneration in Parkinson's disease Dr Raymond C C Chang, School of Biomedical Sciences   c(4) 4 LAV PB1-F2 cytotoxic sequence mediates NLRP3 inflammasome activation via oxidative stress induction Prof Dong-Yan Jin, School of Biomedical Sciences   c(4) 4 Oviposition preference and thermal tolerance of stag beetles (Family: Lucanidae) Dr Timothy C Bonebrake, School of Biological Sciences   c(4) 4 Chloroplast genomes comparison of mycoheterotrophic teragonum Prof Richard Saunders, School of Biological Sciences	ct(4)   4   Use of CombiGEM-CRISPR in screening potential novel drug combinations for liver cancer   Dr Alan S L Wong, School of Biomedical Sciences      ct(4)   4   Role of TRPC1-induced Ca <sup>2+</sup> -signaling in neuromuscular synapse development   Dr Chi Wai Lee, School of Biomedical Sciences   Role of TRPC1-induced Ca <sup>2+</sup> -signaling in neuromuscular Sciences   Role of TRPC1-induced Ca <sup>2+</sup> -signaling in neuromuscular Sciences   Role of TRPC1-induced Ca <sup>2+</sup> -signaling in neuromuscular Sciences   North Wai Lee, School of Biomedical Sciences   Role of TRPC1-induced Ca <sup>2+</sup> -signaling in neuromuscular Sciences     ct(4)   4   Using transparent brain to investigate spreading of neurodegeneration in Parkinson's disease   Dr Raymond C C Chang, School of Biomedical Sciences   Using neuronal tracing and passive transparent brain to investigate spreading of Sciences   Dr Raymond C C Chang, School of Biomedical Sciences   Using neuronal pathway     ct(4)   4   IAV PB1-F2 cytotoxic sequence mediates NLRP3 inflammasome activation via oxidative stress induction sciences   Dr Timothy C Bonebrake, School of Biological Sciences   Influenza A virus PB1-F2 cytotoxic motif promotes self Biological Sciences     ct(4)   4   Oviposition preference and thermal tolerance of stag beetles (Family: Lucanidae)   Dr Timothy C Bonebrake, School of Biological Sciences   -     ct(4)   4   Chloroplast genomes comparison of mycoheterotrophic Exacum tetragonum   Prof Richard Saunders, School of Biologic

Wan Lok Yee	BSc(4)		1 1	Biological Sciences	1 1 1	Prof Anderson O L Wong, School of Biological Sciences
Wang Chuwen	BSc(4)	4	Uniruled Projective varieties	Prof Ngai Ming Mok, Department of Mathematics		

Name	Curriculum	Year	Project Title of Project/ Directed Studies Course	Supervisor of Project/ Directed Studies Course	Project Title of Summer Research Internship	Internship Supervisor
Chan Chun Ngai	BSc(4)	4	Holocene climate changes in marginal Asian monsoon	Dr Zhonghui Liu, Department of Earth	Field investigation of lake status in Inner Mongolia	Dr Zhonghui Liu, Department of Earth
			regions	Sciences		Sciences
Cheung Man Him	BSc(4)	4	Elicidating the role of Dlc1ß in motor neuron development	Dr Martin Cheung, School of Biomedical Sciences		
Chu Ka Chi	BSc(4)	4	Investigation and Validation on Gene Expression During	Prof Kathryn S E Cheah, School of	Investigation and Validation on Gene Expression	Prof Kathryn S E Cheah, School of
			Development of nucleus Pulposus	Biomedical Sciences	During Development of Nucleus Pulposus - Hox Genes	Biomedical Sciences
			· ·		and Cell Surface Markers	
Ding Anyang	BSc(4)	4	Palaeobiogeographic Analysis of Coelurosaurian	Dr Michael D Pittman, Department of Earth		
			Evolution	Sciences		
Ling Yuet Fung	BSc(4)	4	Upper-ocean stratification in the polar North Atlantic and	Dr Benoit Thibodeau, Department of Earth	Upper-ocean stratification in the polar North Atlantic	Dr Benoit Thibodeau, Department of
			its impact on deep-water ventilation during past	Sciences	and its impact on deep-water ventilation during past	Earth Sciences
			interglacials		interglacials	
Man Pui Hei Marcus*#	BSc(4)	4	Modulation of the cGAS-STING pathway by MERS-CoV	Prof Dong-Yan Jin, School of Biomedical	Modulation of the cGAS-STING pathway by MERS-	Prof Dong-Yan Jin, School of Biomedica
				Sciences	CoV	Sciences
Ng John Joson Quimpo	BSc(4)	4	Synthesis of fluorescent chemical probes for detection of	Dr Ho Yu Au-Yeung, Department of		
			superxide ions	Chemistry		
Poh Wei Church	BSc(4)	4	Design (modification), Synthesis, Characterization and	Prof Vivian W W Yam, Department of	Probing the Influence of the R-Zn-R Bond Angle in	Prof Ulrich Fekl, Department of Chemica
			Photophysical Study of Phosphorescent Organometallic	Chemistry	Dialkylzinc Complexes on the Lewis Acidity of the	and Physical Sciences, University of
			Complexes		Zinc Metal Centre and Implications for Zinc Activities	Toronto Mississauga
Wang Jen-chieh	BSc(4)	4	Studies on the effects of stereochemistry on (4+3)	Prof Pauline Chiu, Department of	Studies on the effect of stereochemistry on (4+3)	Prof Pauline Chiu, Department of
			cycloaddition to synthesize perhydroazulenes diastereoselectively	Chemistry	cycloaddition to synthesize perhydroazulenes	Chemistry
Wang Jianian	BSc(4)	4	Discrete-time series analysis on nomadic migration of	Dr Guodong Li, Department of Statistics &		
,			historical china	Actuarial Science		
Yan Junran	BSc(4)	4	Role of centromere and kinetochore proteins in anoxia-	Dr Karen W Y Yuen, School of Biological	The role of centromere, kinetochore and cell cycle	Dr Karen W Y Yuen, School of
			induced suspended animation and recovery in S. cerevisiae	Sciences	checkpoint proteins in anoxia-induced suspended	Biological Sciences
					animation and recovery in S. cerevisiae	
Zeng Ji	BSc(4)	3	L2 Estimates of d-bar Operator on Complex Manifolds	Prof Ngaiming Mok, Department of		
				Mathematics		
Zhou Ruiyi	BSc(4)	4	Adapting Scalable Correlated Electronic Structure Theory	Dr Jun Yang, Department of Chemistry	Adapting Scalable Correlated Electronic Structure	Prof Roberto Car, Department of
			to Born-Oppenheimer Molecular Dynamics Simulatios of		Theory to Born-Oppenheimer Molecular Dynamics	Chemistry, Princeton Institute for the
			Molecular Exited Electronic State		Simulations	Science and Technology of Materials

<u>2016-17</u>	016-17							
Name	Curriculum	Year	Project Title of Project/ Directed Studies Course	Supervisor of Project/ Directed	Project Title of Summer Research Internship	Internship Supervisor		
				Studies Course				
Ho Julian Xi Wei	BSc(4)	5	Role of miRNA-1 and -499 in maturation of human	Dr Wendy W Y Wong & Dr Kwok Ming				
			embryonic stem cell-derived cardiomyocytes in 3D tissue	Yao, School of Biomedical Sciences				
			culture					
Ni Haozheng	BSc(4)	4	Bootstrap approximation in time series modeling	Dr Guodong Li, Department of Statistics &				
				Actuarial Science				
Rabbani Mashiat*#	BSc(4)	4	Evaluating Nucleoside Analogs as Potential Anti-Cancer	Prof Alice S T Wong, School of Biological	Novel mechanisms for targeting Cancer Stem	Prof Peng Ling, Department of Chemical		
			Drugs	Sciences	cells using nucleoside analogues and	Biology, Centre National de la Recherche		
					nanotechnology based drug delivery	Scientifique (CNRS)		

Tse Yuen Cheong	BSc(4)	4	Design and Synthesis of Luminescent Metal Complexes	Chemistry	Design, Synthesis and Photophysical Study of Cyclometallated N^C^N Alkynylplatinum(II) Complexes	Prof Vivian W W Yam, Department of Chemistry
Wong Thomas Hin Fung	BSc(4)	4	The Anticancer components from Hedyotis diffusa	Prof Chi Ming Che, Department of Chemistry		
Zhang Zhiqian	BSc(4)		8 8	Prof Dong-Yan Jin, School of Biomedical Sciences		

2015-16

Name	Curriculum	Year	Project Title of Project/ Directed Studies Course	Supervisor of Project/ Directed Studies Course	Project Title of Summer Research Internship	Internship Supervisor
Fan Ruolin*	BSc(4)	4	Systemic exploration in the regulating network of hypertrophic-chondrocyte-to-osteoblast differentiation	Prof Kathryn S E Cheah, School of Biomedical Sciences		
Guo Fengyi	BSc(4)	4	Impacts of Urbanization on Spotted Dove Communication	Dr Timothy C Bonebrake, School of Biological Sciences & Dr Caroline E Dingle, Department of Earth Sciences		
Hassan Ayon Ahmed	BSc(4)	4	Determining the effect of shear stress on the adhesion of tumor cells in cancer metastasis	Prof Alice S T Wong, School of Biological Sciences		
Husain Abdullah	BSc(4)	4		Prof Billy K C Chow, School of Biological Sciences		
Leung Yi Lok Enoch*#	BSc(4)	4	Reconstruction of mass dirtribution of galaxy cluster(s) via gravitational lensing	Dr Jeremy J L Lim, Department of Physics	Studying the UV luminosity functions of galaxies at high redshifts	Dr Jeremy J L Lim, Department of Physics
Liu Yangdongling	BSc(4)	4	Design, Synthesis and Photophysical Study of Luminescent Metal Complexes	Prof Vivian W W Yam, Department of Chemistry		
Luo Di	BSc(4)	4	New Time Evolution Methods for Matrix Product States of Tensor Network in Quantum Calculation	Prof Guanhua Chen, Department of Chemistry & Dr Shizhong Zhang, Department of Physics	Investigation on Tensor Network Renormalization Group	Prof Garnet Kin-Lic Chan, Department of Chemistry, the Chan Group, Princeton University
Sun Chenyue*	BSc(4)	4	Visible-light mediated synthesis of dihydrofuran derivatives with ruthenium photoredox catalysts	Prof Chi Ming Che, Department of Chemistry	Red-light induced carbon disulfide release from a cobalt complex	Prof Peter C Ford, Department of Chemistry and Biochemistry, University of California, Santa Barbara, USA
Wen Boya*	BSc(4)	4	Fermat-type functional equations and binary form	Prof Tuen Wai Ng, Department of Mathematics		
Wu Teng	BSc(3)	4	Exploring properties of Bayesian & Frequentist hybrid confidence interval	Prof Stephen M S Lee, Department of Statistics & Actuarial Science		
Xiong Lingyun*	BSc(4)	4	Funtional Role of hnRNP A1 on FOXM1 alternative splicing	Dr Kin Hang Kok, School of Biomedical Sciences		
Zhang Yongquan	BSc(4)	4	Complex Manifolds	Prof Ngaiming Mok, Department of Mathematics	From Holomorphic Functions to Complex Manifolds	Prof Ngaiming Mok, Department of Mathematics

Name	Curriculum	Year	Project Title of Project/ Directed Studies Course	Supervisor of Project/ Directed	Project Title of Summer Research Internship	Internship Supervisor
				Studies Course		
Cai Weixin*	BSc(3)	3	Buffered Autoregressive Model with Exogenous Variables	Dr Philip L H Yu, Department of Statistics	Semiparametric Heteroscedastic Modeling for	Dr Prabir Burman, University of
				& Actuarial Science	Seasonal Time Series	California, Davis
Chan Ho Wang*	BSc(3)	3	Anammox Bacteria in Animal System	Dr Jidong Gu, School of Biological	Molecular Diagnosis of Anammox Bacteria	Dr Jidong Gu, School of Biological
				Sciences		Sciences
Chan Hok Fung	BSc(3)	5	Physiologically - relevant doses of UVA exposure alters	Dr Jetty C Y Lee, School of Biological		
			human skin keratinocytes growth	Sciences		
Cheng Tsz Fung	BSc(3)	3	Roles of BART microRNAs in Epstein-Barr virus-induced	Prof Dong-Yan Jin, Department of	Roles of BART microRNAs in Epstein-Barr virus-	Prof Dong-Yan Jin, Department of
			epithelial transformation	Biochemistry	induced epithelial transformation	Biochemistry

201	12 1	14

Name	Curriculum	Year	Project Title of Project/ Directed Studies Course	Supervisor of Project/ Directed	Project Title of Summer Research Internship	Internship Supervisor
				Studies Course		
Li Yu	BSc(3)	2	Complex Differential Geometry	Prof N Mok, Department of Mathematics		
Pan Wenqi	BSc(3)	2	The role of Suppressor of fused in mouse hindbrain development	Dr M H Shum, Department of Biochemistry	The role of Suppressor of fused in the formation of mouse cranial facial skeleton and outflow tract of embryonic heart	Prof C C Hui, University of Toronto
Sun Lianyi	BSc(ActuarSc)(3)	3	Analysis of large data sets: new tools from random matrix theory	Dr J F Yao, Department of Statistics & Actuarial Science		
Wong Mo Dick	BSc(ActuarSc)(3)	2	Markov chains on a continuous state space	Dr J F Yao, Department of Statistics & Actuarial Science		Dr P Del Moral, INRIA-Bordeaux-Sud- Ouest Research Centre
Yang Shihao*	BSc(ActuarSc)(3)	2	Valuing contingent options: A discounted density approach	Dr H L Yang, Department of Statistics & Actuarial Science		

Name	Curriculum	Year	Project Title of Project/ Directed Studies Course	Supervisor of Project/ Directed Studies Course	Project Title of Summer Research Internship	Internship Supervisor
Chai Wai Yeeng	BSc(3)	2	Do endocrine discrupting chemicals affect cancer?	Dr A S T Wong, School of Biological Sciences		
Choi Chek Hin	BSc(ActuarSc)(3)	3	· · ·	Dr E K C Cheung, Department of Statistics & Actuarial Science	Optimal portfolio with correlation constraints	Dr C Bernard, University of Waterloo
Chow Tai Cheong*	BSc(3)	2	Pax6 and neurodegeneration of Parkinson's disease	Dr Y Q Song, Department of Biochemistry		Dr Y Q Song, Department of Biochemistry
Lai Cheuk Hei	BSc(3)	1		Dr Chan Wan Yi, Department of Pathology Dr Chan Chi Wai, School of Public Health		-
Lam Chun Ming	BSc(3)	2	Light controllable kinesin		Meiotic spoll recombination initiation complex in zea mays analysis using yeast two-hybrid system – cloning of spoll-1A, spoll-1B, and prd2	Dr Arnard Ronceret, University of California, Berkeley
Lau Wing Yan	BSc(3)	2	Molecular characterization of puerarin-protein interactions by proteomics and domain mapping	Dr J Rong, School of Chinese Medicine	Isolation of puerain binding protein by biotin- streptavidin system	Dr J Rong, School of Chinese Medicine
Li Yu Ting Stephen	BSc(3)	2	The role of cell-cell junction proteins and actin regulatory proteins on germ cell migration and development during spermatogenesis	Prof W W M Lee, School of Biological Sciences	Unraveling the role of actin regulatory proteins on cytoskeleton during spermatogenesis	Dr C Y Cheng, Rockefeller University
Lin Tsen-yuan	BSc(3)	2	Analysing Fermi's data	Prof K S Cheng, Department of Physics		
Ng Ngai Fung*	BSc(3)	2	Riemann surfaces and complex manifolds	Prof N Mok, Department of Mathematics	Studies on kahler manifolds	Prof N Mok, Department of Mathematics
Peng Jun	BSc(3)	1	Calculus of variation	Prof W S Cheung, Department of Mathematics		
Shen Keren	BSc(3)	2	The generalization of Gibbard-Satterthwaite theorem	Dr T W Ng, Department of Mathematics	One candidate voting with a quorum	Dr T W Ng, Department of Mathematics
Song Yifan	BSc(3)	2	Data analysis for Fermi Satellite	Prof K S Cheng, Department of Physics		
Tang Yunfan	BSc(ActuarSc)(3)	2	Option pricing under regime switching models	Prof H L Yang, Department of Statistics & Actuarial Science		-
Tse Man Nok	BSc(3)	2	The roles of Lmxla gene in regulating Irx3/5 genes during inner ear development	Dr M H Sham, Department of Biochemistry		Dr M H Sham, Department of Biochemistry
Wan Ho Chi	BSc(ActuarSc)(3)	2	annuities	Dr K C Cheung, Department of Statistics & Actuarial Science		Dr K C Cheung, Department of Statistics & Actuarial Science
Wong Kin Lam	BSc(3)	2	Modulation of secretin and secretin receptor gene regulations by NFAT5 in mouse hypothalamic cells	Prof K C Chow, School of Biological Sciences	The modulation of secretin receptor expression by hyperosmotic stress in mouse hypothalamic cells	Prof K C Chow, School of Biological Sciences