Participants of Undergraduate Research Fellowship (URFP) Programme

*Excellence in Poster Presentation #Best Presenter

2018-19

Name	Curriculum	Year	Project Title of Project/ Directed Studies Course	Supervisor of Project/ Directed Studies Course	Project Title of Summer Research Internship	Internship Supervisor
Gu Jiacheng	BSc(4)	4	Role of Long Non-coding RNAs in Cancer Stem Cells	Dr Jiangwen Zhang, School of Biological Sciences	Role of Phosphorylation of Ybx1 in the Translation Control of Maternal sqt RNA and Nodal Signaling Pathway in Zebrafish Embryogenesis	Prof Karuna Sampath, Warwick Medical School, The University of Warwick
Ho Sik Yin	BSc(4)	4	Use of CombiGEM-CRISPR in screening potential novel drug combinations for liver cancer	Dr Alan S L Wong, School of Biomedical Sciences		
Kwan Hiu Lam Rachel*#	BSc(4)	4	Role of TRPC1-induced Ca ²⁺ -signaling in neuromuscular synapse development	Dr Chi Wai Lee, School of Biomedical Sciences	Role of TRPC1-induced Ca ²⁺ -signaling in neuromuscular synapse development	Dr Chi Wai Lee, School of Biomedical Sciences
Lai Siu Lun Michael	BSc(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 visualize neuronal pathway	Dr Raymond C C Chang, School of Biomedical Sciences
Lee Tak Wang Terence	BSc(4)	4	IAV PB1-F2 cytotoxic sequence mediates NLRP3 inflammasome activation via oxidative stress induction	Prof Dong-Yan Jin, School of Biomedical Sciences	Influenza A virus PB1-F2 cytotoxic motif promotes self aggregation to elicit NLRP3 dependent IL-1 β release	Prof Dong-Yan Jin, School of Biomedical Sciences
Leung Tsz Kin Calvin	BSc(4)	4	Oviposition preference and thermal tolerance of stag beetles (Family: Lucanidae)	Dr Timothy C Bonebrake, School of Biological Sciences		
Leung Yee Man	BSc(4)	4	Chloroplast genomes comparison of mycoheterotrophic Exacum paucisquamum and autotrophic Exacum tetragonum	Prof Richard Saunders, School of Biological Sciences		
Shukla Yash Sanjaykumar	BSc(4)	4	Autonomously-produced synthetic push-pull motif	Dr Julian A Tanner, School of Biomedical Sciences	Autonomously-produced synthetic push-pull motif	Dr Thomas Ouldridge, Department of Bioengineering, Imperial College London
Wan Lok Yee	BSc(4)	4	Preparation of recombinant protein of adiponectin in E. coli and testing of its bioactivity in cell lines with adiponectin receptor expression and its potential effects on promoter activation of pituitary hormones	Prof Anderson O L Wong, School of Biological Sciences	Preparation of recombinant protein of adiponectin in E. coli and testing of its bioactivity in cell lines with adiponectin receptor expression and its potential effects on promoter activation of pituitary hormones	Prof Anderson O L Wong, School of Biological Sciences
Wang Chuwen	BSc(4)	4	Uniruled Projective varieties	Prof Ngai Ming Mok, Department of Mathematics		

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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
			regions	Sciences		Earth Sciences
Cheung Man Him	BSc(4)	4	Elicidating the role of Dlc1ß in motor neuron	Dr Martin Cheung, School of Biomedical		
			development	Sciences		
Chu Ka Chi	BSc(4)	4	Investigation and Validation on Gene Expression			Prof Kathryn S E Cheah, School of
			During 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 Evolution	Dr Michael D Pittman, Department of Earth Sciences		
Ling Yuet Fung	BSc(4)	4	Upper-ocean stratification in the polar North Atlantic and its impact on deep-water ventilation during past interglacials	Dr Benoit Thibodeau, Department of Earth Sciences	Upper-ocean stratification in the polar North Atlantic and its impact on deep-water ventilation during past interglacials	Dr Benoit Thibodeau, Department of Earth Sciences
Man Pui Hei Marcus*#	BSc(4)	4	Modulation of the cGAS-STING pathway by MERS-CoV		Modulation of the cGAS-STING pathway by MERS-CoV	Prof Dong-Yan Jin, School of Biomedical Sciences
Ng John Joson Quimpo	BSc(4)	4	Syntthesis of fluorescent chemical probes for detection of superxide ions	Dr Ho Yu Au-Yeung, Department of Chemistry		
Poh Wei Church	BSc(4)	4	Design (modification), Synthesis, Characterization and Photophysical Study of Phosphorescent Organometallic Complexes	Chemistry	Probing the Influence of the R-Zn-R Bond Angle in Dialkylzinc Complexes on the Lewis Acidity of the Zinc Metal Centre and Implications for Zinc Activities	Prof Ulrich Fekl, Department of Chemical and Physical Sciences, University of Toronto Mississauga
Wang Jen-chieh	BSc(4)	4	Studies on the effects of stereochemistry on (4+3) cycloaddition to synthesize perhydroazulenes diastereoselectively	Prof Pauline Chiu, Department of Chemistry	Studies on the effect of stereochemistry on (4+3) cycloaddition to synthesize perhydroazulenes	Prof Pauline Chiu, Department of Chemistry
Wang Jianian	BSc(4)	4	Discrete-time series analysis on nomadic migration of historical china	Dr Guodong Li, Department of Statistics & Actuarial Science		
Yan Junran	BSc(4)	4	Role of centromere and kinetochore proteins in anoxia- induced suspended animation and recovery in S. cerevisiae	Dr Karen W Y Yuen, School of Biological Sciences	The role of centromere, kinetochore and cell cycle checkpoint proteins in anoxia-induced suspended animation and recovery in S. cerevisiae	Dr Karen W Y Yuen, School of Biological Sciences
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 to Born-Oppenheimer Molecular Dynamics Simulatios of Molecular Exited Electronic State	Dr Jun Yang, Department of Chemistry	Adapting Scalable Correlated Electronic Structure Theory to Born-Oppenheimer Molecular Dynamics Simulations	Prof Roberto Car, Department of Chemistry, Princeton Institute for the Science and Technology of Materials

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Ho Julian Xi Wei	BSc(4)	5	Role of miRNA-1 and -499 in maturation of human embryonic stem cell-derived cardiomyocytes in 3D tissue culture	Dr Wendy W Y Wong & Dr Kwok Ming Yao, School of Biomedical Sciences		
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 Drugs	Biological Sciences	Novel mechanisms for targeting Cancer Stem cells using nucleoside analogues and nanotechnology based drug delivery	Prof Peng Ling, Department of Chemical Biology, Centre National de la Recherche 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)	4	CRISPR/Cas9 mediated isolation and genomic cloning of EBV strains from clinical EBV-infected cell samples	Prof Dong-Yan Jin, School of Biomedical Sciences		

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Fan Ruolin*	BSc(4)	4	Systemic exploration in the regulating network of	Prof Kathryn S E Cheah, School of		
			hypertrophic-chondrocyte-to-osteoblast differentiation	Biomedical Sciences		
Guo Fengyi	BSc(4)	4	Impacts of Urbanization on Spotted Dove	Dr Timothy C Bonebrake, School of		
			Communication	Biological Sciences & Dr Caroline E		
				Dingle, Department of Earth Sciences		
Hassan Ayon Ahmed	BSc(4)	4		Prof Alice S T Wong, School of		
			tumor cells in cancer metastasis	Biological Sciences		
Husain Abdullah	BSc(4)	4		Prof Billy K C Chow, School of		
			for dimerization with Human Secretin Hormone Receptor	Biological Sciences		
Leung Yi Lok Enoch*#	BSc(4)	4	Reconstruction of mass dirtribution of galaxy cluster(s)	Dr Jeremy J L Lim, Department of Physics	Studying the UV luminosity functions of galaxies	Dr Jeremy J L Lim, Department of
			via gravitational lensing		at high redshifts	Physics
Liu Yangdongling	BSc(4)	4	Design, Synthesis and Photophysical Study of	Prof Vivian W W Yam, Department of		
			Luminescent Metal Complexes	Chemistry		
Luo Di	BSc(4)	4	New Time Evolution Methods for Matrix Product States	Prof Guanhua Chen, Department of	Investigation on Tensor Network Renormalization	Prof Garnet Kin-Lic Chan,
			of Tensor Network in Quantum Calculation	Chemistry & Dr Shizhong Zhang,	Group	Department of Chemistry, the Chan
				Department of Physics	•	Group, Princeton University
Sun Chenyue*	BSc(4)	4	Visible-light mediated synthesis of dihydrofuran	Prof Chi Ming Che, Department of	Red-light induced carbon disulfide release from a	Prof Peter C Ford, Department of
			derivatives with ruthenium photoredox catalysts	Chemistry	cobalt complex	Chemistry and Biochemistry,
					1	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	Prof Stephen M S Lee, Department		
			confidence interval	of Statistics & Actuarial Science		
Xiong Lingyun*	BSc(4)	4	Funtional Role of hnRNP A1 on FOXM1 alternative	Dr Kin Hang Kok, School of Biomedical		
			splicing	Sciences		
Zhang Yongquan	BSc(4)	4	Complex Manifolds	Prof Ngaiming Mok, Department of	From Holomorphic Functions to Complex	Prof Ngaiming Mok, Department of
				Mathematics	Manifolds	Mathematics

2014-15

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Cai Weixin*	BSc(3)	3	Buffered Autoregressive Model with Exogenous	Dr Philip L H Yu, Department	Semiparametric Heteroscedastic Modeling for	Dr Prabir Burman, University of
			Variables	of Statistics & 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-	Prof Dong-Yan Jin, Department of	Roles of BART microRNAs in Epstein-Barr virus-	Prof Dong-Yan Jin, Department of
			induced epithelial transformation	Biochemistry	induced epithelial transformation	Biochemistry

2013-14

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			Course	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)		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	11	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		

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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	Introduction to the gerber-shiu function in ruin theory	Dr E K C Cheung, Department of	Optimal portfolio with correlation constraints	Dr C Bernard, University of Waterloo
				Statistics & Actuarial Science		,
Chow Tai Cheong*	BSc(3)	2	Pax6 and neurodegeneration of Parkinson's disease	Dr Y Q Song, Department of	Neurodegeneration of parkinson's disease: the role	Dr Y Q Song, Department of
				Biochemistry	of Pax6 in MPP+-induced apoptosis Parkinson's	Biochemistry
					disease in vitro model	
Lai Cheuk Hei	BSc(3)	1	Pathogenesis of influenza viruses	Dr Chan Wan Yi, Department of		
				Pathology		
				Dr Chan Chi Wai, School of Public Health		

Lam Chun Ming	BSc(3)	2	Light controllable kinesin	Dr J D Huang, Department of Biochemistry	Meiotic spo11 recombination initiation complex in zea mays analysis using yeast two-hybrid system – cloning of spo11-1A, spo11-1B, 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		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	The roles of Lmx1a in regulating Irx3 and Irx5 genes in inner ear development	Dr M H Sham, Department of Biochemistry
Wan Ho Chi	BSc(ActuarSc)(3)	2	Dependance structures in multiple life insurances and annuities	Dr K C Cheung, Department of Statistics & Actuarial Science	A study in optimal reinsurance	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
Wu Qihang*	BSc(3)	2	Tectonic evolution of the Chinese Altai		A detailed structral study of Qiongkuer Region, China Altai: multiphase deformation and modification for terrane subdivision proposed	Prof M Sun, Department of Earth Sciences
Zheng Yao*	BSc(ActuarSc)(3)	3	Applications of nonlinear time series models	Prof W K Li, Department of Statistics & Actuarial Science	Applications of nonlinear time series models: fitting threshold models to veilleux's predator series	Prof W K Li, Department of Statistics & Actuarial Science