# Participants of Summer Research Fellowship (SRF) Scheme

\*Excellence in Poster Presentation

#Best Presenter

Name	Curriculum	Year	Project Title	Supervisor
Aslam Humayl	BSc (4)	2	Fabricating Gyromagnetics	Prof Shuang Zhang, Department of Physics
Cao Jiyue	BSc (4)	2	Explore the Individual Role of BLM and TOP3A in the Resolution of UFBs	Prof Gary Ying Wai Chan, School of Biological Sciences
Chan Cheong Ming	BSc&MRes (4)	2	Enhancing Energy Storage - Improving Cycling Performance of Li-Cl Coin Cells.	Prof Hong Jie Dai, Department of Chemistry
Chen Jiabei	BSc (4)	1	Detecting Specific Integrin Activity using Synthetic Phosphotyrosine- Based Live-Cell Biosensor	Prof Heath Johnson, School of Biological Sciences
Cheng Ruijia	BSc (4)	1	Design and Synthesis of Side-Wall Conjugated Imine-Linked 3D Covalent Organic Framework	Prof Seungkyu Lee, Department of Chemistry
Cheng Yuet Lam	BSc (4)	1	Industry Analysis Based on Risk Capital Allocation among The 11 S&P 500 Indices	Prof Tim J. Boonen, School of Computing and Data Science (Statistics and Actuarial Science)
Choy Tsun Hin	BSc&MRes (4)	1	Synthetic Biology-Guided Antimicrobial Peptide Discovery From The Human Gut Microbiome	Prof Philip Yong-Xin Li, Department of Chemistry
Fan Xinyue	BSc (4)	2	Credit Card Fraud Detection Comparison among Different Machine Learning Algorithms	Prof Tim J. Boonen, School of Computing and Data Science (Statistics and Actuarial Science)
Fu Tianlu	BSc (4)	1	Royal Jelly Modulates Autophagy and Exerts Senolytic Effect in a GBA1-dependent Manner	Prof Zhongjun Zhou, School of Biomedical Sciences
Gong Jiayi	BSc (4)	3	Study the Role of ANKLE1-BAF in Resolving Chromatin Bridges by Generating an Auxin-inducible Degron Knock-in Cell Line	Prof Gary Ying Wai Chan, School of Biological Sciences
Gong Rufan	BSc (4)	2	Atroposelective Reduction of 1,1'-Biaryl-2,6-dinitriles by a Cobalt-Catalyzed Desymmetrization	Prof Zhongxing Huang, Department of Chemistry
Gu Yawen	BSc&MRes (4)	1	Effect of PD-L1 on T Cells in Immune Microenvironment of Ovarian Cancer	Prof Alice S. T. Wong, School of Biological Sciences
He Qiyu	BSc (4)	2	Macrocyclic vs. [2]Catenane Pyridine N-oxide Cation Receptors: Preparation and Characterization	Prof Ho Yu Au-Yeung, Department of Chemistry
He Qizhen	BSc (4)	2	Synthesis of Guanidine-Based [2]Catenane Receptor for Anion Guests	Prof Ho Yu Au-Yeung, Department of Chemistry
Ho Kai Wing	BSc&MRes (4)	2	Utilizing the Bioactivity of Teixobactin	Prof Xuechen Li, Department of Chemistry
Ho Yat Laam	BSc (4)	3	Beta-Perfluorinated Iron Porphyrin Complexes Catalyzed Alpha-CN-Alpha-alkyl Carbene Insertion into C(sp3)-H bonds	Prof Chi-Ming Che, Department of Chemistry
Hu Jiayi	BSc (4)	2	Synthesis of Teixobactin Analogs	Prof Xuechen Li, Department of Chemistry
Huang Helene Heling	BSc (4)	1	Interacting Residue Mapping of STK36 and ULK4 using BRET	Prof Mu He, School of Biomedical Sciences

Lai Ruize	BSc (4)	2	The Role of Derived Category in Homological Algebra	Prof Kei Yuen Chan, Department of Mathematics
Lam Yuk Shan		2		-
Lam Tuk Shan	BSc (4)	\\ \( \)	Taxonomic Revision of The Genus Anochetus (Trap-Jaw Ant) in Hong Kong and Southeast Asia	Prof Benoit Guénard, School of Biological Sciences
Law Wai Chung Fiona	BSc&MRes (4)	1		Prof Zhonghua Yao, Department of Earth Sciences
Tond	_ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	1	Active Moons in The Solar System	2 September of Earth Sciences
Lee Jia Yi	BSc (4)	2	Role of Brain-derived Neurotrophic Factor (BDNF) Signaling in	Prof Chi Bun Chan, School of Biological Sciences
			Brown Adipocyte Differentiation	•
Li Anran	BSc (4)	1	Synthesis and Antibacterial Studies of Teixobactin Analogues via	Prof Xuechen Li, Department of Chemistry
			Convergent Ser Ligation	
Li Jia	BSc (4)	1	Finding H3K79 Demethylases in Human Cells	Prof David Xiang Li, Department of Chemistry
Liu Haoyang	BSc (4)	3	Distribution of Hurwitz Class Number	Prof Benjamin Kane, Department of Mathematics
Liu Zhonglin	BSc (4)	2	Integrating Machine Learning to Enhance Online Portfolio Selection	Prof Wai Ki Ching, Department of Mathematics
Lo Ching Yan	BSc&MRes (4)	1	Role of GEN1 Endonuclease in Inhibiting cGAS-STING	Prof Gary Ying Wai Chan, School of Biological
			Immunological Response	Sciences
Loo Sum	BSc&MRes (4)	1	Design, Synthesis, and Self-Assembly Studies of Luminescent Platinum(II) Complexes	Prof Vivian W. W. Yam, Department of Chemistry
Lyu Xinke	BSc (4)	2	Optimal Transport: Sinkhorn & ARBCD Method	Prof Zhiwen Zhang, Department of Mathematics
Shen Kaizhe	BSc (4)	2	Supervised Study on Coxeter Groups	Prof Zheng Hua, Department of Mathematics
Sun Youreng	BSc (4)	1	Thickness Measurement of Thin Films: A Matlab Approach with	Prof Tran Trung Luu, Department of Physics
_			White Light Interference	
Tan Jing Yee	BSc&MRes (4)	1	Analysing Bitcoin Transactions Using Queuing Models	Prof Wai Ki Ching, Department of Mathematics
Tang Yihan	BASc(AppliedAI) (4)	2	Semantic EHR Transformer: Using Transformer-based Generative	Prof Lequan Yu, School of Computing and Data
			Model with a Semantic-enhanced ICD-coding System to Improve	Science (Statistics and Actuarial Science)
m *: :	DG 03 (1)		Clinical Disease Prediction	
Teng Jiayi	BSc&MRes (4)	1	Metastatic Heterogeneity upon Tumor-T Cell Interaction in a Novel Isogenic Model of Spontaneous Ovarian Cancer Metastasis	Prof Alice S. T. Wong, School of Biological Sciences
Wan Yuheng	BSc (4)	2	Geometry in Grassmannians	Prof Zheng Hua, Department of Mathematics
Wang Junkai	BSc (4)	3	Relative Astrometry on Guitar Nebula Pulsar B2224+65	Prof Stephen Chi Yung Ng, Department of Physics
Wang Rui	BSc (4)	2	Investigating Toxicity Of Asian Danaid (Danaus Chrysippus)	Prof Timothy Carlton Bonebrake, School of Biological
			Caterpillars Through Hong Kong Praying Mantid Feeding Behavior	Sciences
Wang Yuexi	BSc&MRes (4)	1	Finding New Teixobactin Analogues	Prof Xuechen Li, Department of Chemistry
Wei Yumeng	BSc (4)	2	Deep-sea Ostracods Faunal Turnover in the Southern Ocean During	Prof Moriaki Yasuhara, School of Biological Sciences
			the Eocene-Oligocene Transition	
Wong Shuk Yam	BSc&MRes (4)	1	Heterogeneous Sea Surface Temperatures in Chinese Marginal Seas	Prof Zhonghui Liu, Department of Earth Sciences
Wu Donglai	BSc (4)	2	Towards Better Robustness Analysis of Pairwise Learning	Prof Yunwen Lei, Department of Mathematics
Wu Runqiu	BSc&MRes (4)	2	Towards Better Robustness Analysis of Pairwise Learning	Prof Yunwen Lei, Department of Mathematics

Xiao Suyang	BSc (4)	2	A Variational Quantum Algorithm for The Black-Scholes PDE with	Prof Zhiwen Zhang, Department of Mathematics
Xiong Hanyi*	BASc(AppliedAI) (4)	1	Stochastic Volatility Geographic Information Analysis and Prediction Based on Machine Learning	Prof Kai Han, School of Computing and Data Science (Statistics and Actuarial Science)
Xu Jing Xiang	BSc (4)	2	Probabilistic Boolean Networks	Prof Wai Ki Ching, Department of Mathematics
Yan Jiaying	BSc (4)	1	Study of Nonlinear Wave Generation in Optical Ring Resonators	Prof Yi Yang, Department of Physics
Yau Yeuk Laam	BSc&MRes (4)	1	Investigation of RNA Binding Proteins Involved in the Axonal Transport of mec-17 mRNA Along the Touch Receptor Neurons in C. Elegans	Prof Chaogu Zheng, School of Biological Sciences
Yeung Tsz Yin	BSc (4)	2	Discovery on Cellular NAD+ Boosting Compound by Compound Library Screening with NAD+ Sensor Cell Line	Prof Wallace Boon Leong Lim, School of Biological Sciences
Yin Jiaxiang*	BSc (4)	1	White-light Interferometry for Thickness Measurement of Thin Films	Prof Tran Trung Luu, Department of Physics
Yu Wing Hin	BSc (4)	2	Deformational Features of Neoarchean Banded Iron Formations in North China	Prof Guochun Zhao, Department of Earth Sciences
Zhang Li	BSc (4)	3	Investigation of Auranofin-derived Gold Complexes as Antimicrobial Agents	Prof Hongzhe Sun, Department of Chemistry
Zheng Jiale	BSc (4)	3	Investigate the Role of BCM and EGY1 in Chloroplast-mediated Plant Immunity Response	Prof Peng Wang, School of Biological Sciences
Zhu Hongyi	BSc (4)	2	Investigation of p28, a Novel Type-I Interferon Antagonist, in Poxvirus Infections	Dr Chi Ping Chan, School of Biomedical Sciences
Zhu Zi	BSc (4)	2	Geochronological Study on the Formation and Growth of the Oldest Continent in North China	Prof Jian Zhang, Department of Earth Sciences
Zu Ziqing	BSc&MRes (4)	1	The Role of the Endonuclease LEM-3 in Neuronal Cell Fate Specification	Prof Chaogu Zheng, School of Biological Sciences

#### <u>2022-23</u>

Name	Curriculum	Year	Project Title	Supervisor
Aarons Cynthia	BSc (4)	2	Constructing a 'Dispersion-Less' Microscope	Dr Tran Trung Luu, Department of Physics
An Junying	BSc (4)	2	Using Box & Tiao Decomposition to Find Mean-Reversion	Dr Zhiwen Zhang, Department of Mathematics
			Coefficient	
Aslam Humayl	BSc (4)	1	A Quantum Mechanical Interplay of Electrons and Photons	Dr Yi Yang, Department of Physics
Chan Cheong Ming	BSc&MRes(4)	1	Antimicrobial Peptide Organic Synthesis for Pharmacuetical Use	Prof Xuechen Li, Department of Chemistry
Chan Hoi Yat	BSc (4)	1	Dependence of the Centrally Depleted Structure on Nuclear	Dr Jenny Hiu Ching Lee, Department of Physics
			Deformation in the Deformed Relativistic Hartree-Bogoliubov theory	
			in continuum	
Chen Chun	BSc (4)	1	Investigating the Effects of Urban Green Space on Avian Biodiversity	Prof Timothy Carlton Bonebrake, School of Biological
			in Urban Hong Kong with a Citizen Science Approach	Sciences
Chen Zhihui	BSc&MRes(4)	1	Nuclear Mass Calculations Using Deformed Relativistic Hartree-	Dr Jenny Hiu Ching Lee, Department of Physics
			Bogoliubov Theory in Continuum	

Cheng Hin Chung	BSc (4)	2	Kramers-Wannier Duality & Transform in Spin Models	Dr Chenjie Wang, Department of Physics
Cheng Nai Ming	BSc&MRes(4)	2	Do Brightest Cluster Galaxies Possess Massive Dark Matter Halos	Dr Jeremy Jin Leong Lim, Department of Physics
Cheng Yufan	BSc (4)	1	Cherenkov Radiation in Isotropic and Anisotropic Media	Dr Yi Yang, Department of Physics
Cheung Long In	BSc&MRes(4)	1	Effects of Human Activities on Butterfly Stress in HK	Prof Timothy Carlton Bonebrake, School of Biological Sciences
Chung Yiu Tak	BSc&MRes(4)	1	Expression and Purification of Retroviral-like Transposon Protein PEG10 GAG Domain	Dr Tao Ni, School of Biomedical Sciences
Du Meining	BSc (4)	2	Global Optimization	Dr Meng Zi Yang, Department of Physics
Fan Zixian	BSc (4)	3	Combining Rnn with The Transformer for Video Recognition Learning	Prof Guodong Li, Department of Statistics and Actuarial Science
Feng Yushi	BSc (4)	3	Generative Pre-trained Models As Context-Driven Graph Data Augmenter	Dr Lequan Yu, Department of Statistics and Actuarial Science
Fung Chiu Wah	BSc&MRes(4)	2	Global Magnetosphere Model of a Uranus-Like Planet	Dr Binzheng Zhang, Department of Earth Sciences
Guo Sheung Yu	BSc (4)	2	CRISPR Cas9 mediated Knockout of ARID1A gene to Generate ID8 Model of Ovarian Clear Cell Carcinoma	Prof Alice Sze Tsai Wong, School of Biological Sciences
Guo Yirong	BSc&MRes(4)	1	The Effect of Width of Road Toward Density of Giant Wood Spider Nephila Pilipes and Herbivory	Prof Timothy Carlton Bonebrake, School of Biological Sciences
He Yiwei	BSc (4)	2	Measurement of Hubble Constant Based on Gravitational Lens Models	Dr Jeremy Jin Leong Lim, Department of Physics
Ho Kai Wing	BSc&MRes(4)	1	Histone Expression and Purification	Prof Xiang Li, Department of Chemistry
Ho Sin Yiu#	BSc (4)	2	Investigating the Role of Melanoma-secreted FSTL1 in Cancer Angiogenesis	Dr Martin Chi Hang Cheung, School of Biomedical Sciences
Huang Jiasheng	BSc (4)	3	Complex Tori and Abelian Variety	Prof Ngaiming Mok, Department of Mathematics
Kan Cheuk Kwan	BSc (4)	3	Observing Pulsar Kick by Measuring Proper Motions of Pulsars Using Chandra Data	Dr Stephen Chi Yung Ng, Department of Physics
Kesici Aybala Nisa	BSc (4)	2	Development of A New Optogenetic Control of Membrane-Focal Adhesion Tension	Dr Heath Johnson, School of Biological Sciences
Kim Da Hyung	BSc (4)	3	Calculation of Nuclear Masses Using Deformed Relativistic Hartree-Bogoliubov Theory for Odd-Even Nuclei in a Drip Line Range of 61 to 69	Dr Jenny Hiu Ching Lee, Department of Physics
Kongsawangchai Areeya	BSc&MRes(4)	1	Design, Synthesis, Photophysical and Electrochemical Study of Cyclometalated Arylgold(III) Complexes	Prof Vivian Wing Wah Yam, Department of Chemistry
Law Chun Hoi	BSc (4)	2	Investigating the Effects of Body Size and an Invasive Ant Species on Carrion Decomposition	Dr GUÉNARD, Benoit, School of Biological Sciences
Li Baorui	BSc (4)	3	Numerical Investigations on Quantum Phase Transitions	Dr Meng Zi Yang, Department of Physics
Li Guoming	BSc (4)	2	Refinement of Lotka-Volterra Equations for Competition Model and Mathematical Justification	Dr Tak Kwong Wong, Department of Mathematics
Lim Xin Yue	BSc (4)	2	Enhancing Bioenergy Recovery and Sulphide Suppression in Anaerobic Digestion through Micro-aeration	Dr Edmund Tse, Department of Chemistry
Lin Qianli	BSc (4)	2	Cointegration Test Between Financial Time Series Using Global Optimization	Dr Zhang Zhiwen, Department of Mathematics

Ling Kai Yan	BSc&MRes(4)	1	Synthesis of Metal-organic Framework Particles	Dr Yufeng Wang, Department of Chemistry
Liu Xuan	BSc (4)	1	Effects of Plantation on Leaf Litter Ants Communities in Southeast China	Dr GUÉNARD, Benoit, School of Biological Sciences
Liu Yiting	BSc (4)	1	Cu-Catenane Crosslinked GelPreparation and Testing of Physical Properties	Dr Yufeng Wang, Department of Chemistry
Liu Ziyi	BSc (4)	2	To Induce and Capture Eight-cell Embryo-like Cells and Naïve Pluripotent Stem Cells from Porcine Expanded Potential Stem Cells	Prof Pengtao Liu, School of Biomedical Sciences
Lui Yuk Sing	BSc (4)	3	What is Missing, Investigating the Essential Domains for Gen1 Endonuclease to be Functional In Cellular Environment	Dr Gary Ying Wai Chan, School of Biological Sciences
Lyu Dengqian	BSc (4)	2	Making Cyclic Nanostructures from Grafted Block Copolymers	Dr Yufeng Wang, Department of Chemistry
Mah Catherine See Yee	BSc (4)	2	The Nature of Extreme Emission Line Galaxies in a Galaxy Cluster	Dr Lim, Jeremy Jin Leong, Department of Physics
Ng Victor Koonhei	BSc&MRes(4)	1	Modeling of CD47-SIRPA Signaling in Tumor Microenvironment by Assembloid of Vascular Immune Organoids and Cancer Organoids	Dr Rio Sugimura, School of Biomedical Sciences
Or King Long	BSc (4)	2	Design, Synthesis, and Photophysical Studies of Polynuclear Copper(I) Chalcogenido Clusters	Prof Vivian Wing Wah Yam, Department of Chemistry
Pan Siqi	BSc (4)	2	Scanning Tunneling Microscopic Study of Two-dimensional Graphene and One-dimensional Carbon Nanotubes	Prof Maohai Xie, Department of Physics
Poon Yui Hang	BSc (4)	3	A Mechanistic Study of SARS-CoV-2 3CLpro-mediated Cleavage of ZAP	Dr Chi Ping Chan, School of Biomedical Sciences
Pu Ruiling*	BSc (4)	2	Controllable Text-to-image Generation with Customized Guidance on Appearance and Position	Dr Kai Han, Department of Statistics and Actuarial Science
Qian Yunzhi	BSc (4)	3	Using Tyrosine-Based Motif as a Life Biosensor for Integrin Activity	Dr Heath Johnson, School of Biological Sciences
Qin Suyue	BSc (4)	2	Image Description Generation with Large-Scale Language Models	Dr Kai Han, Department of Statistics and Actuarial Science
Sha Taole	BSc (4)	3	Sequential Student-T Processes for Online Learning of Nonstationary Functions	Dr Michael Minyi Zhang, Department of Statistics and Actuarial Science
Shut Wing Chun	BSc (4)	2	Growth of a Single-crystal, Flat, Thin Gold Film on Sapphire	Prof Maohai Xie, Department of Physics
Sun Jiaqi	BSc (4)	1	Synthesis and Comparison of 1,4-Azaborine Inserted Conjugated Macrocycles and its Linear Contrast Molecules	Dr Junzhi Liu, Department of Chemistry
Tsang Hin Lam*	BSc&MRes(4)	1	Effect of Probiotic Mixture "Prohep" on Hepatocellular Carcinoma Development	Dr Hani El-Nezami, School of Biological Sciences
Tu Hao Chen	BSc (4)	2	Symmetry and Stability Analysis of a Gapless Spin Chain	Dr Chenjie Wang, Department of Physics
Wang Linjing	BSc (4)	2	Common Types of Integral Inequalities with Analogues in Discrete Cases	Prof Wing Sum Cheung, Department of Mathematics
Wang Xining	BSc (4)	2	Structure-Activity Relationship Analysis on The Access Binding Pocket of The Pseudomonas aeruginosa Major Efflux Protein MexB	Prof Aixin Yan, School of Biological Sciences
Wong Alika Yuk Wai	BSc&MRes(4)	1	Assessing the Effects of Traditional Chinese Medicine Compound B on Ovarian Cancer Stem Cells	Prof Alice Sze Tsai Wong, School of Biological Sciences

Wong Annabella Chun	BSc&MRes(4)	1	Relationship Between Butterfly (Papilionoidea, Lepidoptera)	Dr Louise Amy Ashton, School of Biological Sciences
			Morphological Traits and Temperature Tolerance	
Wong Cheuk Lam Matthew	BSc (4)	3	Optogenetic Control of JAK/STAT Signalling	Dr Heath Johnson, School of Biological Sciences
Wong Wai Lok	BSc&MRes(4)	1	Design, Synthesis, Photophysical and Electrochemical Study of Luminescent Tridentate C^N^C Arylgold(III) Complexes	Prof Vivian Wing Wah Yam, Department of Chemistry
Xie Ruiyang	BSc&MRes(4)	1	Realising THz Emission and Detection with Femtosecond Lasers and Semiconductor High-mobility Transistors	Prof Xiaodong Cui, Department of Physics
Yan Ruijie	BSc (4)	3	Construction of Ultrafast Laser Source of Million Hertz Frequency Level	Prof Xiaodong Cui, Department of Physics
Yan Yilou	BSc (4)	1	Research on Triangular Billiards Conjecture	Dr Zhang Xin, Department of Mathematics
Yan Yongkang	BSc (4)	2	Study on The Transcription Factors of STS and SOMT Genes Involved in Stilbene Biosynthesis in Sorghum	Dr Clive S.C. Lo, School of Biological Sciences
Yang Qianru	BSc (4)	3	Basic Study on the Lithography Technique for Micro/Nanorobots	Dr Jinyao Tang, Department of Chemistry
Ye Siyu	BSc (4)	1	Breast Cancer Risk Analysis	Dr Dora Yan Zhang, Department of Statistics and Actuarial Science
Yeung Ka Ho	BSc (4)	3	Roles of Structure-specific Endonucleases in the Fragility of FRA16D Flex1 Sequence	Dr Gary Ying Wai Chan, School of Biological Sciences
Zhang Xuanjia	BSc&MRes(4)	1	Electrical Transport Properties of Bismuth Oxychloride	Prof Xiaodong Cui, Department of Physics
Zhang Yizhi	BSc (4)	1	Effects of Transcutaneous Auricular Vagus Nerve Stimulation on Glucocorticoid Expression in the Brain	Dr Wei Lim Lee, School of Biomedical Sciences
Zhang Zheng	BSc (4)	2	Small Gaps Between Primes	Dr Zhang Xin, Department of Mathematics
Zhou Yuxuan	BSc (4)	1	Study on Fabricating Core-Shell Microparticles with Microfluidic System	Dr Jinyao Tang, Department of Chemistry
Zhu Zi	BSc (4)	1	The Geochemistry of Transition Metals in Volcanic Vapors	Dr Lemke, Kono, Department of Earth Sciences
Zhuo Qianlin	BSc (4)	2	Exploring Animal Models for Studying the Effects of Social Isolation	Dr Raymond C.C. Chang, School of Biomedical Sciences

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Name	Curriculum	Year	Project Title	Supervisor			
Chan Chun Lai	BSc (4)	2	Study of the genetic interaction between human ANKLE 1 and other	Dr Gary Ying Wai Chan, School of Biological Sciences			
			nucleases for chromosome segregation				
Chan Ho Ling	BSc (4)	1	The preparation of samples for the measurement of E/Ca ratios in	Dr Christelle Not, Department of Earth Sciences			
			planktic foraminifera Globigerina bulloides and Neogloboquadrina				
			incompta testsncompta tests				
Chau Tim Lok	BSc (4)	2	Study on Phase Transitions of Classical and Quantum Ising Model	Dr Zi Yang Meng, Department of Physics			
			with Monte Carlo Simulation				
Cheng Hin Chung	BSc&MRes (4)	1	Low dimensional halide perovskite materials for thermoelectric	Prof Aleksandra B. Djurišić, Department of Physics			
			applications				
Cheung Cheuk Hei	BSc (4)	3	Many Bosons System of One Dimension with Generalized δ-function	Dr Shizhong Zhang, Department of Physics			
			Potential Interaction				

Choi Hin Hang	BSc (4)	2	Investigating the impact of alternate splicing in sleep regulation of C. elegans	Dr Chaogu Zheng, School of Biological Sciences
Chong Wing Lam*	BSc (4)	3	Molecular Mechanism of How Phosphorylated PLK1 Interacts with PICH-BTRR Complex on UFBs	Dr Gary Ying Wai Chan, School of Biological Sciences
Chow Yin Hei	BSc (4)	1	Conditional generative adversarial network and identification of planetary nebulae	Prof Quentin A. Parker, Department of Physics
Du Liheng	BSc (4)	3	Treatment Effect Estimation Under Semi-supervised Causal Inference	Prof Stephen MS Lee, Department of Statistics and Actuarial Science
Erisir Atilla Kaan	BSc (4)	2	Polymorphism in microRNAs in C. elegans	Dr Chaogu Zheng, School of Biological Sciences
Fan Ting Hay	BSc (4)	3	Biofilm Cultivation on Electrode for Coral Reef Restoration	Dr Edmund Chun Ming Tse, Department of Chemistry
Fan Zixian	BSc (4)	2	Analysis of the impact of the epidemic on people's psychology and behavior	Dr Jinfeng Xu, Department of Statistics and Actuarial Science
Fu Wai Ki	BSc (4)	2	Designing and preparation of ZAP and PACT knock-out cells by CRISPR-Cas9 technology to study their roles in modulating interferon responses during IAV infection	Prof Dong-Yan Jin, School of Biomedical Sciences
Fung Chiu Wah	BSc (4)	1	Investigation on Trace Element Ratios in Benthic Foraminifera Hoeglundina elegans	Dr Christelle Not, Department of Earth Sciences
Guo Jiaxin	BSc (4)	2	Delineating the Effect of Promoter and Coding Region Mutations in a Master Regulator LasR on the Virulence of the "ESKAPE" Pathogen Pseudomonas aeruginosa	Dr Aixin Yan, School of Biological Sciences
Ho Ka Chun	BSc (4)	2	Modelling tumor endothelial cell (TEC) formation and TEC-tumor microenvironment interaction with organoid	Dr Sugimura Ryohichi, School of Biomedical Sciences
Hung Yuen Ching	BSc (4)	3	Amino Acid (Alanine) Taste Preference In Agapornis Roseicollis (Rosy-Faced Lovebird)	Dr Simon Y.W. Sin, School of Biological Sciences
Kwan Long Hei	BSc (4)	2	Theoretical study on Anderson localization	Dr Chenjie Wang, Department of Physics
Kwok Man Yu Kelly	BSc&MRes (4)	1	Establishing cancer-vascular-immune organoid for human hepatocellular carcinoma from expanded potential stem cells	Dr Rio Sugimura & Prof Alice S.T. Wong, School of Biomedical Sciences & School of Biological Sciences
Lee Sze Yuen	BSc (4)	2	Function of FANCM in DNA damage response	Dr Gary Ying Wai Chan, School of Biological Sciences
Leung Sai Yu Richard	BSc (4)	3	Computational modeling and analysis of structural vibrations in fluid- structure interactions	Dr Tak Kwong Wong, Department of Mathematics
Leung Yuen Ting*	BSc (4)	3	Developing Difluoroalkylamino Biotin for Singlet Oxygen-mediated RNA Proximity Labelling	Dr Ying Li, Department of Chemistry
Li Chenyang	BSc (4)	3	Primitive representations by sums of squares	Dr Benjamin Kane, Department of Mathematics
Li Kau Chun	BSc (4)	2	Design, Synthesis, Photophysical and Electrochemical Study of Cyclometalated Alkynylgold(III) Complexes	Prof. Vivian W. W. Yam, Department of Chemistry
Liu Yuheng*	BSc (4)	1	Exoplanets and the corresponding planetary motion of the system	Dr Man Hoi Lee, Department of Earth Sciences

Ma Qiyao	BSc (4)	2	Elliptic Functions and Theta Functions with Applications in Number Theory	Prof Ngaiming Mok, Department of Mathematics
Pan Zhilin	BSc&MRes (4)	1	Tumor initiating cell-specific localization of P70 S6 kinase in ovarian cancer	Prof Alice S.T. Wong, School of Biological Sciences
Pant Sudikshya	BSc (4)	3	Cluster Algebras and Quiver Mutations	Prof Jiang-Hua Lu, Department of Mathematics
Qian Junyi	BSc (4)	3	Design, Synthesis and Photophysical Studies of Luminescent Alkynylplatinum(II) Complexes for RNA Detection	Prof. Vivian W. W. Yam, Department of Chemistry
Qu Tianyong	BSc (4)	2	Two Proofs of the Poincaré-Birkhoff-Witt Theorem	Dr Zheng Hua, Department of Mathematics
Si Zhewei	BSc (4)	2	Monitoring Plant Water-use Using Hyperspectral Image	Dr Jin Wu, School of Biomedical Sciences
Sui Hangke	BSc (4)	2	Physics-Informed Neural Networks (PINNs) for solving spatio- temporal PDEs in Metaverse	Prof Xiaoming Yuan, Department of Mathematics
Sui Shaoti	BSc (4)	2	Investigation on tricin biosynthesis regulation mediated by MYB-family transcription factor MYB58/63 (LOC_Os04g50770) in rice.	Dr Clive Sze Chung Lo, School of Biological Sciences
Tam Hoi Yau	BSc (4)	3	Elucidating the role of a metabolic regulator MMD2 in determining neuron-glial fate choice in the dorsal root ganglia	Dr Martin Chi Hang Cheung, School of Biomedical Sciences
Tu Hao Chen	BSc (4)	1	Renormalization Group Study of $\phi$ 4 Theory	Dr Chenjie Wang, Department of Physics
Wang Han	BSc (4)	2	Association between Coffee Intake and Cardiometabolic Biomarkers A Mendelian Randomization Study	Dr Jimmy Louie, School of Biological Sciences
Wong On Ki	BSc&MRes (4)	1	Investigate the impact of Type 2 diabetes mellitus (T2D) on mucosal immune barrier to respiratory viral infections	Dr Heidi Guang Sheng Ling & Dr Boon Leong Lim, School of Biomedical Sciences & School of Biological Sciences
Wong Yat Long	BSc&MRes (4)	1	On the Excitation Mechanisms of Nebula in Brightest Cluster Galaxies	
Wu Peilin	BSc (4)	1	Elucidating the Molecular Mechanism of Rad53 in Inhibiting DDK Mediated Helicase Activation Using Cryo-Electron Microscopy	Dr Yuanliang Zhai, School of Biological Sciences
Wu Yonglin	BSc (4)	2	Stk36(Fused) interacts with Kif27 in the mammalian motile ciliogenesis pathway	Dr Mu He, School of Biomedical Sciences
Xue Luhao	BSc (4)	2	Eisenstein series part of the primitive representations for even rank quadratic forms	Dr Benjamin Kane, Department of Mathematics
Yan Yongkang	BSc (4)	1	Study on stilbene synthase activity in Phaseolus vulgaris	Dr Clive Sze Chung Lo, School of Biological Sciences
Yang Jiayu	BSc (4)	3	Representation set of the product of two prime with the sum of triangular number	Dr Benjamin Kane, Department of Mathematics
Yang Muhua	BSc (4)	2	Research on possible autocrine signalling inhibitors, SIRT1 and PTPN1, inducible by GH and have an inhibitory effect on IGF-I & II expression at the hepatic level of Ctenopharyngodon Idella (Grass carp)	Prof Anderson On Lam Wong, School of Biological Sciences

Yao Yuanyue	BSc (4)	2	Tackling Misclassified Weathering Grades Using Novel Artificial	Dr Louis Ngai Yuen Wong, Department of Earth
			Intelligence Technique	Sciences
Yu Can	BSc (4)	1	Ibrutinib, Agrimol B and its derivatives: Synthesis, anticancer	Prof Chi-Ming Che, Department of Chemistry
			activities and mechanism studies	
Yu Cheuk Tim	BSc (4)	3	SSHP-1 and SHP-2 as Feedback Inhibitors for Growth Hormone-	Prof Anderson On Lam Wong, School of Biological
			induced IGF-1 Expression in Carp Hepatocytes	Sciences
Yun Ze	BSc (4)	3	Mordell-Weil Theorem for Elliptic Curves over Complex Function	Prof Ngaiming Mok, Department of Mathematics
			Fields, and the Finiteness of Mordell-Weil Groups of Elliptic	
			Modular Surfaces	
Yung Yiu Yin	BSc(ActuarSc) (4)	3	On Semi-supervised Learning Methods for Multivariate Density and	Prof Stephen MS Lee, Department of Statistics and
			Conditional Density Estimation	Actuarial Science
Zhang Xinyuan	BSc (4)	2	The Convergence Analysis of Gradient Descent-Ascent Method for a	Prof Michael Kwok Po Ng, Department of Mathematics
			class of Minimax problem	
Zhou Polly	BSc (4)	2	Pharmacological evaluation of small molecule MRGPRX2 antagonist	Prof Billy Kwok Chong Chow, School of Biological
			against allergy and inflammation	Sciences

Name	Curriculum	Year	Project Title	Supervisor
Au Kwing Nam	BSc (4)	1	Design, Synthesis and Photophysical Study of Luminescent Cyclometalated Platinum(II) Complexes for Biological Applications	Prof Vivian W W Yam, Department of Chemistry
Bin Islam Fahad	BSc (4)	1	Comparing the Optical and Infrared Colour Gradients of Selected Galaxies	Dr Jeremy J L Lim, Department of Physics
Chan Ching Si	BSc (4)	3	Exploring the metabolic theory of ecology in freshwater shrimps	Dr Juan Diego Gaitán-Espitia, School of Biological Sciences
Chen Haoyang	BSc (4)	2	Expressions as sum of square of integers	Dr Benjamin R Kane, Department of Mathematics
Chen Weiyi	BSc (4)	1	Microfluidic Chip in Isolation of Metastatic Cells and Test Their Adhesion Potential by Automation Counting	Prof Alice S T Wong, School of Biological Sciences
Cheng Cheung Hin	BSc (4)	2	Identify the functions of different domains in FANCM	Dr Gary Y W Chan, School of Biological Sciences
Cheong Tsz Ho	BSc (4)	2	Apply deep learning to numerically solve 1-d Poisson problem	Dr Guanglian Li, Department of Mathematics
Chow Cheuk Ying Tweety	BSc (4)	2	Development of a replication-competent influenza A virus carrying a near-infrared fluorescent protein 670 (iRFP670) reporter for in-vivo animal study	Dr Kok Kin-Hang & Dr Kwok Ming Yao, School of Biomedical Sciences & Department of Microbiology
Ho Ho Ching	BSc (4)	3	Purification of Metalloprotein as targets for Antibacterial Agents	Prof Hongzhe Sun, Department of Chemistry
Hou Shuwen	BSc (4)	2	Reveal the Antibody Response in Liver Transplant Patients of Hepatitis B Virus Reactivation	Prof Ren Sun & Dr Chengmin Qian, School of Biomedical Sciences

Ip Ki	BSc (4)	3	Design, Synthesis, Photophysical and Electrochemical Study of 2,6-Di(thiazol-2'-yl)pyridine Ligands and Platinum(II) Complexes	Prof Vivian W W Yam, Department of Chemistry
Jian Tianyi	BSc (4)	2	Apply machine learning in particle physics experiment	Dr Yanjun Tu, Department of Physics
Kang Liang	BSc (4)	2	Unraveling of the Inhibitory Regulation of Orc6 by S-CDK Using Cryo-EM	Dr Yuanliang Zhai, School of Biological Sciences
Khicha Saharsh	BSc (4)	2	Investigating the role of PICH in the localization of PLK1 to the centromere	Dr Gary Y W Chan, School of Biological Sciences
Ko Cheng Hoi	BSc (4)	2	Palladium (IV) Catalyzed Difluorination of Alkenes	Prof Chi Ming Che, Department of Chemistry
Kwan Long Hei	BSc (4)	1	Triggering Active Galactic Nuclei in Cluster Environments	Dr Jeremy J L Lim, Department of Physics
Kwok Chun Yin	BSc (4)	3	Development of Potential Two-Photon Activated Photoremovable Protecting Groups with Fluorene Derivatives	Prof David Lee Phillips, Department of Chemistry
Lam Hei Man Charlotte	BSc (4)	3	Mechanism underlying tyloxapol and thonzonium bromide on biofilm inhibition	Dr Olivier Habimana, School of Biological Sciences
Law Ho Wai	BSc (4)	1	Applying machine learning in particle physics at the ATLAS experiment	Dr Yanjun Tu, Department of Physics
Li Jiawen	BSc (4)	2	Plastic Pollution In Hong Kong Coastal Environment	Dr Christelle A Not, Department of Earth Sciences
Li Kau Chun	BSc (4)	1	Design, Synthesis, Photophysical and Electrochemical Study of Cyclometalated Alkynylgold(III) Complexes	Prof Vivian W W Yam, Department of Chemistry
Li Wei	BSc (4)	2	Deep Neural Network Approximation to Piecewise Constant Functions	Dr Guanglian Li, Department of Mathematics
Lin Yen-hsu	BSc (4)	2	Supramolecular Assembly of Carbazole-Containing Platinum(II) Complexes through Pt···Pt and π–π Stacking Interactions, Hydrogen-Bonding and Hydrophobic— Hydrophobic Interactions: Synthesis, Characterization, Photophysics and Self-Assembly Behaviors	Prof Vivian W W Yam, Department of Chemistry
Liu Ruizhe	BSc (4)	2	A study on quantum critical model: The Fibonacci Anyon Chain	Dr Chenjie Wang, Department of Physics
Liu Yiming	BSc (4)	2	Quaternary Quadratic Forms And Sums Of Divisors	Dr Benjamin R Kane, Department of Mathematics
Luo Yongqi	BSc (4)	1	Investigating Neurological Effects of Physical Trauma In PTSD Using the Zebrafish Model	Dr Raymond C C Chang, School of Biomedical Sciences
Ng Cheuk Yan	BSc (4)	1	Characterization of aluminium oxide thin film fabricated by pulsed laser deposition	Dr Francis C C Ling, Department of Physics
Ooi Xin Ci	BSc (4)	2	Roles of brain-derived neurotrophic factor (BDNF) signaling in hepatic metabolism	Dr Chi Bun Chan, School of Biological Sciences
Park In Young	BSc (4)	3	Effect of Mn doping in the electrocatalytic performance of Co-G nanospheres for oxygen evolution reaction	Prof Zheng Xiao Guo, Department of Chemistry
Poon Pak Shing Billy	BSc (4)	2	Studies Toward The Total Synthesis Of Toxicodenane A through (4+3) cycloaddition	Prof Pauline Chiu, Department of Chemistry
Poon Yu Ching	BSc (4)	3	Induction of Natural Killer Cells from Human Expanded Potential Stem Cells in vitro	Dr Rio Ryohichi Sugimura & Prof Pengtao Liu, School of Biomedical Sciences

Radhakrishnan Samhita	BSc (4)	3	The Physiological Effects of Somatolactin in Regulating	Prof Anderson O L Wong, School of Biological
Ramanan			Feeding in Goldfish and Grass carp: Optimising IPTG Induction	Sciences
Reese Robert Miles Ryan*	BSc (4)	1	Synthesis of patchy particles via solvent extraction	Dr Yufeng Wang, Department of Chemistry
Rogatch Michael	BSc (4)	1	Optimization of hydrothermal synthesis of Bismuth Ferrite (BiFeO3) microplates	Dr Jinyao Tang, Department of Chemistry
Roychowdhury Soumil	BSc (4)	2	Application of Machine Learning to Particle Physics for Signal Classification	Dr Yanjun Tu, Department of Physics
Seong Yang-woo	BSc (4)	3	Attitude Control of a 6U CubeSat for a MeV Gamma-ray telescope by using Simulink	Prof Quentin A Parker, Department of Physics
Siu Kin To Hugo	BSc (4)	3	Functional study of different domains of PICH by analyzing different truncations	Dr Gary Y W Chan, School of Biological Sciences
Sui Shaoti	BSc (4)	1	In planta investigation of the regulation of pyruvate-related mechanisms using a fluorescent sensor	Dr Wallace B L Lim, School of Biological Sciences
Tabarova Munisa#	BSc (4)	3	Alternative RNA splicing as a mechanistic response to ocean acidification in coral reef fish species Acanthochromis polyacanthus	Dr Celia Schunter, School of Biological Sciences
Tewari Anushka	BSc (4)	2	Computational Study of Application of Eosin-Y as a Photocatalyst in Organic Synthesis Reactions	Prof David Lee Phillips, Department of Chemistry
Vaghani Darsh Arvindbhai	BSc (4)	2	Generation of Ocular Motor Neurons from Urine-derived Induced Pluripotent Stem Cell Lines	Dr Martin C H Cheung & Dr Chaogu Zheng, School of Biomedical Sciences & School of Biological Sciences
Wan Bowen	BSc (4)	2	Skin microbiome of the Hong Kong newt in relation to habitat locality and fungal infections	Dr Simon Y W Sin, School of Biological Sciences
Wang Nan	BSc (4)	2	Resistance exercise improves cognitive functions by attenuating hyperphosphorylated tau in 3xTg mice	Dr Raymond C C Chang, School of Biomedical Sciences
Wang Zimeng	BSc (4)	1	Design, Synthesis, and Characterization of Luminescent Three-Coordinate Boron(III) Complexes and Their Photophysical Studies	Prof Vivian W W Yam, Department of Chemistry
Wong Cheuk Kiu	BSc (4)	3	Perceptual learning and plasticity in the aging binocular visual system	Dr Chi Bun Chan, School of Biological Sciences
Wu Chi Long	BSc (4)	2	Investigation of Teixobactin Analogues for Antibiotic Development	Prof Xuechen Li, Department of Chemistry
Yajaman Siddharth	BSc (4)	2	The Application of Machine Learning in Particle Physics at the ATLAS Experiment	Dr Yanjun Tu, Department of Physics
Yao Yuanyue	BSc (4)	1	Automatic Weathering Grade Classification Using Artificial Intelligence Technique	Dr Louis N Y Wong, Department of Earth Sciences
Yau Siu Ham	BSc (4)	2	Analysis of Biofilm Formation and Eradication by Using Chemical Agents	Dr Edmund C M Tse, Department of Chemistry
Yu Hao	BSc (4)	2	Number of Solutions to Certain Equations	Dr Benjamin R Kane, Department of Mathematics

Yu Pak Hei	BSc (4)	1	The use of 5-fragments Gibson Assembly in CRISPR-Cas9	Dr Karen W Y Yuen, School of Biological Sciences
			mediated gene knock-in in C. elegans	
Zeng Tianyou*	BSc (4)	2	Convex Quadratic Maximization Over Polyhedral Sets	Dr Zheng Qu, Department of Mathematics
Zhang Hongzhuo	BSc (4)	2	Using Gibson Assembly to Construct Cas9 Mediated Dendra2	Dr Karen W Y Yuen, School of Biological Sciences
			Knock in Plasmid with Self Excising Selection Cassette	
Zhang Jiayi*	BSc (4)	2	Root Systems, Reflection Groups and Coxeter Groups	Prof Jianghua Lu, Department of Mathematics
Zhang Qidi	BSc (4)	1	Unraveling the Photorearrangement Reaction Mechanism of	Prof David Lee Phillips, Department of Chemistry
			Quinoline-Protected Dialkylanilines	
Zhang Suihan	BSc (4)	2	A Unified and Desymmetric Approach towards the Synthesis	Dr Zhongxing Huang, Department of Chemistry
			of Chiral Tertiary Alkyl Halides	
Zhang Zhexing	BSc (4)	2	Rubik's Hypercube Group & Cryptography	Prof Wing Sum Cheung, Department of Mathematics
Zhao Yiwen	BSc (4)	3	Solution of the Black-Scholes Equation	Dr Zhiwen Zhang, Department of Mathematics

#### <u>2019-20</u>

Name	Curriculum	Year	Project Title	Supervisor
Awasthi Swambhavi	BSc (4)	2	Understanding the pathogenesis of type V osteogenesis imperfecta through analysis of protein expression changes in osteoblasts during in vitro mineralization	Prof Danny Chan, School of Biomedical Sciences
Cai Fangxin	BSc (4)	2	TEDA cloning of ACTR5 overexpression vector	Dr Jiangwen Zhang, School of Biological Sciences
Chan Chin Tung	BSc (4)	2	Investigating the possible cause of sterility in Cananga odorata var. fruticosa (Annonaceae)	Prof Richard Saunders, School of Biological Sciences
Chan Ka Fai	BSc (4)	2	Towards Cortistatin A Analogue: Asymmetric Reduction of Diketone	Prof Pauline Chiu, Department of Chemistry
Chang Liyan	BSc (4)	2	Sentiment analysis of Shenzhen FinTech news	Dr Philip L H Yu, Department of Statistics & Actuarial Science
Cheung So Yee	BSc (4)	2	EVLA observations of Betelgeuse	Dr Jeremy J L Lim, Department of Physics
Choi Yeseo	BSc (4)	1	Characterization of Sorghum bicolor overexpressing SbFNR via qRT-PCR and metabolites profiling	Dr Clive S C Lo, School of Biological Sciences
Chow Sung In	BSc (4)	3	Peptide sequencing by liquid chromatography-tandem mass spectrometry	Dr Ivan Keung Chu, Department of Chemistry
Dwi Wai Shan Jaimie	BSc (4)	4	Light intensity shapes the thermal niche of the successful worldwide macroalgae invader Codium fragile?	Dr Juan Diego Gaitán-Espitia, School of Biological Sciences
Fayeeja Najeebah Ibnat	BSc (4)	1	Determining the Thermal Tolerance of Littoraria ardouiniana	Prof Gray A Williams, School of Biological Sciences
Gupta Aditya	BSc (4)	1	What is the Semantic Rationale for a CNN in the classification of CT Scans to determine if a patient has Covid-19?	Prof Michael K P Ng, Department of Mathematics
He Yifu	BSc (4)	2	Safeguard Legal Rights for Hotel Guests Study on Price Discrimination across Different Travel Agency Platforms	Dr Ke Zhu, Department of Statistics & Actuarial Science

Ho Meng Chit	BSc (4)	3	Theoretical calculation and experimental measurement on production cross section of Z boson in mu-mu channel with Monte Carlo simulated data	Dr Yanjun Tu, Department of Physics
Hsu An Chu	BSc (4)	3	Accumulation and Translocation of Heavy Metals in Mangroves at Mai Po	Dr Stefano Cannicci, School of Biological Sciences
Hung Ling Sum	BSc (4)	2	Investigating the impact of depression on neuroinflammation in Alzheimer's Disease	Dr Raymond C C Chang, School of Biomedical Sciences
Karim Kazi Neha	BSc (4)	2	Using Bioinformatics for the identification of novel epithelial-to- mesenchymal transition regulators	Prof Alice S T Wong, School of Biological Sciences
Kong Tsz Ching	BSc (4)	3	The Attitude of The Public Towards Human-Wild Boar (Sus scrofa) Interaction in Hong Kong	Dr Hannah S. Mumby, School of Biological Sciences
Kwok Yi Hin	BSc (4)	2	Directed evolution of human transcription factor SOX17 for pluripotency reprogramming	Dr Ralf Jauch & Dr Kwok Ming Yao, School of Biomedical Sciences
Lee Man Yin Leo	BSc (4)	3	Machine Learning to improve the sensitivity of the MAGIC telescope	Dr Stephen C Y Ng, Department of Physics
Leung Yu Hin	BSc (4)	2	Synthesis and dynamics study of [7]catenane	Dr Ho Yu Au Yeung, Department of Chemistry
Levitskiy Arsen	BSc (4)	3	Nature of the compact UV emission in Brightest Cluster Galaxies	Dr Jeremy J L Lim, Department of Physics
Liang Zhuo	BSc (4)	1	Validation for Learning to Reweight Examples for Robust Deep Learning	Dr Zhonghua Liu, Department of Statistics & Actuarial Science
Lim Hui Yuan	BSc (4)	3	Understanding the Axonal mRNA Transport in Various Organisms	Dr Chaogu Zheng . School of Biological Sciences
Lin Minghui	BSc (4)	3	The influence of caste ratio on the colony investment in the dimorphic antPheidole megacephala	Dr Benoit Guénard, School of Biological Sciences
Lin Yen-hsu	BSc (4)	1	Design, Synthesis and Photophysical Studies of Luminescent Calix[4]arene-based Alkynylplatinum(II) Phosphine Complexes	Prof Vivian W W Yam, Department of Chemistry
Liu Sizhe	BSc (4)	1	Quasi-2D lead-free halide perovskite materials	Prof Aleksandra Djurišić, Department of Physics
Low Megan Mei Yan	BSc (4)	3	Variation of ventral color patterns and their association with life history factors in Hong Kong Newts	Dr Simon Y W Sin, School of Biological Sciences
Man Hei Chun*	BSc (4)	1	Design, Synthesis, Photophysical and Electrochemical Study of Luminescent Cyclometalated Gold(III) Complexes	Prof Vivian W W Yam, Department of Chemistry
Mia Md Bayezid	BSc (4)	2	The role of C-terminus of GEN1 Holliday junction resolvase in somatic cells	Dr Gary Y W Chan, School of Biological Sciences
Mohiuddin Saad	BSc (4)	3	White-light interferometry for thickness measurement of thin films	Dr Tran Trung Luu, Department of Physics
Mou Yuanbiao	BSc (4)	3	Constructing a transposon library in clinical multidrug-resistant P. aeruginosa	Dr Aixin Yan, School of Biological Sciences
Pillai Vismaya Rajeev	BSc (4)	1	Identification of terminal selectors and cell fate markers of c. elegans neurons	Dr Chaogu Zheng, School of Biological Sciences
Singhal Kush	BSc (4)	2	Near-miss Identities Involving Representations by Ternary Quadratic Forms and Class Numbers	Dr Benjamin Robert Kane, Department of Mathematics

Siu Tsz Ho	BSc (4)	2	Improved OPA Cyclization for Bioactive Peptide Analogues	Prof Xuechen Li, Department of Chemistry
Song Menghan	BSc (4)	2	Monte Carlo investigations on classical and quantum Ising models and their phase transitions	Dr Zi Yang Meng, Department of Physics
Sun Anqi	BSc (4)	2	Roles of neuronatin in hepatic metabolism	Dr Chi Bun Chan, School of Biological Sciences
Tang Tze Tung	BSc (4)	2	PDZD2 and primary open-angle glaucoma - Characterization of PDZD2-deficient mice and human PDZD2 SNPs	Dr Kwok Ming Yao, School of Biomedical Sciences
Tsang Hiu Yu	BSc (4)	3	Bats ectoparasites in Hong Kong and their specificity of host-parasite interaction	Dr Simon Y W Sin, School of Biological Sciences
Urbana Sayeeda Ibnat	BSc (4)	2	The Variability of Si/Ca Ratios in Ostracod Shells	Dr Christelle A Not, Department of Earth Sciences
Wang Zihan	BSc (4)	2	Detecting Cytosolic G4-binding proteins in Live Cells Using DBF- Conjugated AS1411	Dr Ying Li, Department of Chemistry
Wong Kwan Yuen	BSc (4)	2	Development of YEATS2 Inhibitor as a Potential Non-Small Cell Lung Cancer Cure	Prof Xiang Li, Department of Chemistry
Wong Yik Lok	BSc (4)	2	Incidence and Luminosity of Active Galactic Nuclei in Cluster Elliptical Galaxies	Dr Jeremy J L Lim, Department of Physics
Woo Sing Yi*	BSc (4)	3	Effects of Light Pollution and Urbanization on Moth Communities in Hong Kong	Dr Louise Amy Ashton , School of Biological Sciences
Wu Shuang	BSc (4)	1	Developing new stamping techniques for ultra-large atomically thin 2D crystals	Dr Dong-Keun Ki, Department of Physics
Wu Yuxi	BSc (4)	2	A Study on an Algorithm to Reweight Examples for Robust Deep Learning	Dr Zhonghua Liu, Department of Statistics & Actuarial Science
Xiong Jiaming	BSc (4)	2	A Tail Index Regression Approach to Analyzing Extreme Event Data	Dr Jinfeng Xu, Department of Statistics & Actuarial Science
Yang Jiayu	BSc (4)	1	Generation of OAM light using interferogram and binary hologram	Prof Xiaodong Cui, Department of Physics
Yang Juanyi	BSc (4)	2	Theoretical calculation on production cross section of Z-boson and experimental measurement of production cross section of Z-boson in e-e+ channel with Monte Carlo simulated data	Dr Yanjun Tu, Department of Physics
Ye Wenwen	BSc (4)	1	Effect of H2O2 on SIRT7 gene expression in Huh7	Dr Jiangwen Zhang, School of Biological Sciences
Yeung Ryan Wai-yen	BSc (4)	3	Causality of Viscous Dark Fluids	Dr Jenny H C Lee, Department of Physics
Yu Haoshengzhe	BSc (4)	2	Computational analysis of aptamer-proteincomplex between cubane modified aptamer and PvLDH	Prof Julian A Tanner, School of Biomedical Sciences
Zhan Linying	BSc (4)	2	Investigation on Quantum Search Algorithm and its Possible Applications	Prof Zidan Wang, Department of Physics
Zhang Jiahao	BSc (4)	2	An integration of phenocam observations with machine learning helps monitor leaf phenology in tropical evergreen forests	Dr Jin Wu, School of Biological Sciences
Zhang Steffi Xi Yue	BSc (4)	2	Optimising the Concentration of Dextran Sulfate Sodium to Induce Colitis in Murine Models	Dr Hani El-Nezami, School of Biological Sciences
Zhang Zhuoyuan	BSc (4)	3	Development of a mitochondria targeting ratiometric probe for hydrogen peroxide detection and imaging	Prof Dan Yang, Department of Chemistry

Zhu Zhengyi	BSc (4)	3	Studying portfolio theory using MMVaR	Dr Guodong Li, Department of Statistics & Actuarial
				Science
Zou Xiang*	BSc (4)	1	The Astrophysics of Gaseous Nebulae and HASH Database	Prof Quentin A Parker, Department of Physics
			Exploitation	

### <u>2018-19</u>

Name	Curriculum	Year	Project Title	Supervisor
Ahmed Mahnoor*	BSc (4)	1	Deep Learning-based Sentiment Analysis of HK Fintech News	Dr Philip L H Yu, Department of Statistics & Actuarial
				Science
Cai Fangxin	BSc (4)	1	The role of ACTR5 in liver tumorigenesis as a core component of the	Dr Jiangwen Zhang, School of Biological Sciences
			chromatin remodeling INO80 complex	
Chan Alistair Kai Chak	BSc (4)	2	Investigating the role of BDNF in cigarette smoke-exposed airway	Dr Judith C W Mak, Department of Medicine & Prof
			cells	Dong-Yan Jin, School of Biomedical Sciences
Chan Ka Kui	BSc (4)	3	Characterisation of human EPSCs cultured in an optimised medium	Prof Pengtao Liu & Prof Dong-Yan Jin, School of
				Biomedical Sciences
Chan Lai Ying	BSc (4)	4	Japanese Tit or Cinereous Tit? The missing piece in the Parus puzzle	Dr Simon Y W Sin, School of Biological Sciences
Chan Lok Hang	BSc (4)	3	Unsupervised machine learning in Particle Physics	Dr Yanjun Tu, Department of Physics
Chan Sze Wen	BSc (4)	3	Microplastics retention efficiency in wastewater treatment plant	Dr Christelle A Not, Department of Earth Sciences
Chan Timothy	BSc (4)	2	Investigating the likelihood and nature of mutated resistance and	Prof Leo L M Poon, School of Public Health & Prof
			fitness of Influenza A virus to T-705	Dong-Yan Jin, School of Biomedical Sciences
Cheung Ka Chuen	BSc (4)	3	Towards the binding study of γ-CD, CB[6] – cowheeled Hetero-[4]-	Dr Ho Yu Au-Yeung, Department of Chemistry
			rotaxane with small molecules	
Chin Honston T	BSc (4)	1	Screening of novel antagonist for the treatment of anaphylactoid shock	Prof Billy K C Chow, School of Biological Sciences
Chiu Lok Ching Sandra	BSc (4)	2	The impact of Erythromycin exposure on biofilms formed within	Dr Olivier Habimana, School of Biological Sciences
			simulated irrigation water distribution systems: a metagenomic study	·
Cui Jinze	BSc (4)	2	Detecting and Locating Bone Fractures Using a Deep Neural Network	Dr Philip L H Yu, Department of Statistics & Actuarial
				Science
Deng Jianqiao	BSc (4)	2	Probing Structures and Imaging of Black Hole Accretion Disks	Dr Lixin Dai, Department of Physics
Do Ye Lim	BSc (4)	2	Effect of Tubulin Glutamylation on Regulation of Neuronal Growth	Dr Chaogu Zheng, School of Biological Sciences
			in C.elegans	<i>5 5</i>
Dong Boya	BSc (4)	1	Prediction Region based on High-dimensional Non-parametric	Prof Stephen M S Lee, Department of Statistics &
			Regression	Actuarial Science
Du Zhixu	BSc (4)	2	Solving PDE with Deep Learning	Dr Zhiwen Zhang, Department of Mathematics
Fan Jingjing	BSc (4)	3	The Travelling Salesman Problem And Its Application	Prof Wenan Zang, Department of Mathematics
Felicianna	BSc (4)	2	The Effect of Zearalenone on the proliferation of Colon Cancer Cells	Dr Hani S El-Nezami, School of Biological Sciences
Feng Yueqing	BSc (4)	2	On height function: from Mordell-Weil Theorem to Kaehler manifolds	Prof Ngai Ming Mok, Department of Mathematics

Gan Dailin	BSc (4)	2	Image Similarity Comparison of HK Historic Carvings: A wavelet	Prof Jeff J F Yao, Department of Statistics & Actuarial
			decomposition approach	Science
Garg Anahita	BSc (4)	1	Effects of Schisandrin B on Intestinal Barrier Function	Dr Hani S El-Nezami, School of Biological Sciences
Halim Stephanie	BSc (4)	1	Analogue Synthesis of Teixobactin to Explore Structure-Activity Relationship	Prof Xuechen Li, Department of Chemistry
Heo Chan	BSc (4)	2	Calculations of Nuclear Mass of Even-even Nuclei Through a New Nuclear Model	Dr Jenny H C Lee, Department of Physics
Ho Meng Chit	BSc (4)	2	Nuclear mass calculation with Deformed Relativistic Hartree- Bogoliubov theory in continuum	Dr Jenny H C Lee, Department of Physics
Hu Xinning	BSc (4)	2	Exploration of potential lysine modification by R-2-hydroxyglutarate	Prof Dan Yang, Department of Chemistry
Ip Ki	BSc (4)	1	Design, Synthesis, Photophysical and Electrochemical Study of Luminescent Cyclometalated Platinum(II) Complexes	Prof Vivian W W Yam, Department of Chemistry
Iu Chit Yu Elsie	BSc (4)	2	The use of SGT sprouting technique and C addition for enhancing GABA production in wheat sourdough	Prof Nagendra P Shah, School of Biological Sciences
Jogani Ritika Priyul	BSc (4)	2	Effect of NCBP2-AS2 on metastasis of Gastric Cancer	Dr Jiangwen Zhang, School of Biological Sciences
Kong Siyu	BSc (4)	2	Crystallization - Why Do Particles Pack in This Way?	Dr Tak Kwong Wong, Department of Mathematics
Lai Wenjing	BSc (4)	2	Understand the Molecular Basis of Congenital Scoliosis	Dr Bo Gao, School of Biomedical Sciences
Leong Tsun Lam	BSc (4)	3	Identifying active anti-metastatic components in YB1 treated mouse serum	Prof Jiandong Huang, School of Biomedical Sciences
Li Kam Yun	BSc (4)	2	Synthesis, Spectroscopic and Charge–Transfer Properties Studies of D–π–A compounds based on triarylamine and benzothiadiazole	Prof Vivian W W Yam, Department of Chemistry
Li Pak Yi	BSc (4)	2	Applying unsupervised machine learning in particle physics	Dr Yanjun Tu, Department of Physics
Liu Suying	BSc (4)	1	Maximum Mutual Information A Boolean Function Can Reveal	Dr Guangyue Han, Department of Mathematics
Liu Xinqi	BSc (4)	1	Roles of Capase 3 Activation in Lytic Replication of Epstein-Barr Virus in Epithelial Cells	Prof Dong-Yan Jin, School of Biomedical Sciences
Low Megan Mei Yan	BSc (4)	2	Elevational distribution of Lycaenidae butterflies with and without False Head	Dr Timothy C Bonebrake, School of Biological Sciences
Mia Md Bayezid	BSc (4)	1	How is lncRNA, FAM83H-AS1 Associated with Gastric Cancer?	Dr Jiangwen Zhang, School of Biological Sciences
Ouyang Xiangyu	BSc (4)	1	Investigation on The Effects of Inserting Tetracysteine Tags in Vangl2 C-terminal to The Membrane Localization of Vangl2 Protein	Dr Bo Gao, School of Biomedical Sciences
Radhakrishnan Samhita Ramanan	BSc (4)	1	Photosynthesis and proton movement in guard cells	Dr Wallace B L Lim, School of Biological Sciences
Sang Yan	BSc (4)	2	A study of computational optimal transport—Recent advances for solving large-scale optimal transport problem	Dr Zheng Qu, Department of Mathematics
Shah Aashana Chetan	BSc (4)	1	The effect of the knockdown of gene VPS9D1-AS1 on the metastasis of gastric cancer cells	Dr Jiangwen Zhang, School of Biological Sciences
Siu Tsz Ho	BSc (4)	1	Development of New Antibiotics Based on Teixobactin	Prof Xuechen Li, Department of Chemistry

Szeto Dei Men	BSc (4)	2	Elucidating the role of DLC1 isoform 1 in chick motor neuron development using CRISPR/Cas9 approach	Dr Martin C H Cheung, School of Biomedical Sciences
Tam Sze Hon	BSc (4)	3	An Explorative Study on Relationship Between Ant Allometrism and CTmax Variation	Dr Benoit Guénard, School of Biological Sciences
Taneja Sovina	BSc (4)	3	The effect of polyphenol Schisandrin B and probiotic mixture VSL#3 on HCT116 cell proliferation and migration	Dr Hani S El-Nezami, School of Biological Sciences
Telford Rachel Louise	BSc (4)	1	Further Characterisation of the Nuclear Localisation Signal (NLS) of the Human p70 S6 Kinase	Prof Alice S T Wong, School of Biological Sciences
Tjoa Michelle Angelina	BSc (4)	2	The measurement of consumer acceptance of cricket powder as a new alternative protein source	Dr Tanja Sobko, School of Biological Sciences
Tso Kwon Victor	BSc (4)	1	Towards catenane-based molecular machines	Dr Ho Yu Au-Yeung, Department of Chemistry
Tsui Shing Yan	BSc (4)	2	DNA Tiles – A High-Throughput Signal Amplification Platform	Dr Julian A Tanner, School of Biomedical Sciences
Wang Tsz Lam	BSc (4)	2	Synthesis of Asymmetric Oxetanyl Alcohol for [4+3] cycloaddition	Prof Pauline Chiu, Department of Chemistry
Wong Cheuk Kiu	BSc (4)	1	Effect of SH3 domain binding kinase 1 (SBK1) on stability of Nur77	Dr Chi Bun Chan, School of Biological Sciences
Wu Jiayi	BSc (4)	1	Two failures of classical physics and the emergence of quantum mechanics	Dr Shizhong Zhang, Department of Physics
Yau Shang Ping	BSc (4)	2	Maximum Thermal Limits of Web-building Spiders Communities in Hong Kong across Habitats	Dr Benoit Guénard, School of Biological Sciences
Yeung Chung Tai Anthony	BSc (4)	2	Understanding the Hub of Illicit Freshwater Turtles and Tortoises Trade for conservation	Dr Yik Hei Sung & Dr Simon Y W Sin, School of Biological Sciences
Yiu To Chung Martin	BSc (4)	2	Numerical calculations to extract the ground state properties of the nuclei for a new nuclear model $(62 \le z \le 70)$	Dr Jenny H C Lee, Department of Physics
Yuniar Shendy Marcello	BSc (4)	3	A Deep Learning Approach to Solving Partial Differential Equations	Dr Zhiwen Zhang, Department of Mathematics
Zhang Xiaotian	BSc (4)	2	Selection and Characterization of Fluorogenic DNA Aptamer Using Capture SELEX	Dr Julian A Tanner, School of Biomedical Sciences
Zhao Xiaofan	BSc (4)	1	Time series analysis with American trading data	Dr Guodong Li, Department of Statistics & Actuarial Science
Zhu Zhengyi	BSc (4)	2	An Exploration on Smoothly Clipped Absolute Deviation Penalized Methods in High Dimensional Settings	Prof Stephen M S Lee, Department of Statistics & Actuarial Science
Zhu Zixuan	BSc (4)	2	Use deep learning to solve PDEs	Dr Zhiwen Zhang, Department of Mathematics

Name	Curriculum	Year	Project Title	Supervisor
Au Alison Hoi Kei	BSc (4)	3	Anticancer Effects of Schisandrin B in Colon Cancer	Dr Hani El-Nezami, School of Biological Sciences
Chan Ching Yin	BSc (4)		Synthesis of Reaction-Based Fluorescent Probes for Detection of Metal ions	Dr Ho Yu Au-Yeung, Department of Chemistry
Chan Long Hei	BSc (4)		Understanding the Extracellular Matrix Niche of Articular Cartilage Progenitor Cells	Prof Danny Chan, School of Biomedical Sciences

Chan Wai Fong	BSc (4)	3	The Effects Of PDZD2 On Retinal Müller Cells Under High Glucose Stress Via Sonic Hedgehog Signaling Pathway	Dr Kwok Ming Yao, School of Biomedical Sciences
Cheung Kit Chi	BSc (4)	3	Prospects of Detecting Gravitational Waves by High-precision Astrometric Measurement	Dr Meng Su, Department of Physics
Cheung Wing Ming*	BSc (4)	3	Promotion of skeletal muscle to brown fat tissue transdifferentiation by 7,8-Dihydroxyflavone	Dr Chi Bun Chan, School of Biological Sciences
Chik Gerald Julius	BSc (4)	3	Study on aziridination of alkenes using osmium (VI) nitrido- complexes as catalyst	Prof Chi Ming Che, Department of Chemistry
Ching Karen	BSc (4)	3	3D biomimetic platform for nasopharygneal cancer drug screening	Prof Alice S T Wong, School of Biological Sciences
Chiu Yu-Cheng*	BSc (4)	1	The Study of Morse Theory	Dr Zheng Hua, Department of Mathematics
Chung Ming Wai	BSc (4)	3	A study of functions of Suppressor of fused and Spop in mammalian neural progenitor maintenance	Prof Mai Har Sham, School of Biomedical Sciences
Chung Wing Yi	BSc (4)	2	Market presence of critically endangered European eel (Anguilla anguilla) in Hong Kong	Dr David M Baker, School of Biological Sciences
Heo Chan	BSc (4)	1	GET System for Double-sided Silicon Strip Detector	Dr Jenny H C Lee, Department of Physics
Ho Ching Sum	BSc (4)	3	Recombinant Protein Expression and Testing of their Bioactivity in Mosquito Fish Scale Cells	Prof Anderson O L Wong, School of Biological Sciences
Hong Hei Ip	BSc (4)	2	Role of Epstein-Barr virus Zta protein in suppressing IRF3 transcription factor	Prof Dong-Yan Jin, School of Biomedical Sciences
Hsieh Chia-Chun	BSc (4)	2	Counting the embeddings of the ring of integers into orders of quaternion algebras	Dr Benjamin R Kane, Department of Mathematics
Kamaraj Ramanujam	BSc (4)	3	Study of polygonal numbers and their sums representing positive integers	Dr Benjamin R Kane, Department of Mathematics
Kang Xiaozhuo	BSc (4)	3	Promoter analysis of grass carp somatolactin a and b	Prof Anderson O L Wong, School of Biological Sciences
Lau Wai Ting Jackson	BSc (4)	3	How does the thermal preference of an intertidal snail Nerita sp. help itself to survive thermal stress?	Prof Gray A Williams, School of Biological Sciences
Lee Chun Yin	BSc (4)	1	A model for short-term electric power load forecasting and peak prediction	Dr Philip L H Yu, Department of Statistics & Actuarial Science
Leung Tsz Kin Calvin	BSc (4)	3	The phenology and potential temporal separation of different species of stag beetles (Family Lucanidae) in Hong Kong	Dr Timothy C Bonebrake, School of Biological Sciences
Leung Wang Shing	BSc (4)	3	On the blow-up of hydrostatic Euler equations	Dr Tak Kwong Wong, Department of Mathematics
Li Jiahui	BSc (4)	2	Shape-changing colloidal patchy particles with nonionic surfactant	Dr Yufeng Wang, Department of Chemistry
Li Zhuoxuan	BSc (4)	2	Genetic mechanisms of Alzheimer's Disease	Dr You-Qiang Song, School of Biomedical Sciences & Dr Karen W Y Yuen, School of Biological Sciences
Liang Shuang	BSc(ActuarSc) (4)	3	Generalization of regularized inner products and weakly holomorphic Hecke eigenforms	Dr Benjamin R Kane, Department of Mathematics

Lin Huayue	BSc (4)	2	Identification of Regulatory Enzymes Required for Vangl2 Ubiquitination	Dr Bo Gao, School of Biomedical Sciences
Mak Ho Cheung	BSc (4)	2	Understanding the Neomorphic Function of the Mutant IFITM5 in Osteogenesis Imperfecta type V	Prof Danny Chan, School of Biomedical Sciences
Mcleod Wendy Finella Cabututan	BSc (4)	2	Investigation of Cassiopea polyp development under effect of various Symbiodinium clades	Dr David M Baker, School of Biological Sciences
Mohiuddin Saad	BSc (4)	1	Application of Machine Learning in Material Science	Prof Jian Wang, Department of Physics
Nianias James Michael	BSc (4)	2	Constraining Excitation Mechanisms and Sources in Central	Dr Jeremy J L Lim, Department of Physics
George			Group/Cluster Elliptical Galaxies	
San Sheung Yin	BSc (4)	3	Nitrate and Polyphenols for the Protection against Endothelial Dysfunction	Dr Jimmy C Y Louie, School of Biological Sciences
Sang Yan	BSc (4)	1	Almost universal sums of pentagonal numbers	Dr Benjamin R Kane, Department of Mathematics
Shao Xiaoman	BSc (4)	2	Screening of EMT-Reversing Chemicals Based on Cell Morphology and Marker Expression	Prof Alice S T Wong, School of Biological Sciences
Shen Yichen	BSc (4)	3	Statistical Modeling of University Rankings	Dr Philip L H Yu, Department of Statistics & Actuarial Science
Siu Wing Man	BSc (4)	2	Floral Isolation in Bulbophyllum	Prof Richard Saunders, School of Biological Sciences
Su Zehao	BSc (4)	3	Spatial-temporal Forecast of Wind Speed and Direction for Power Generation	Dr Philip L H Yu, Department of Statistics & Actuarial Science
Tan Zhi Qing	BSc (4)	2	The Effect of Life-long High Sugar Intake in Metabolic Health in Mice	Dr Jimmy C Y Louie, School of Biological Sciences
Tang Tsz So Acacia	BSc (4)	2	Investigation on effect of temperature stress on holobiont using <i>Galaxea sp.</i>	Dr David M Baker, School of Biological Sciences
Taranjit-Singh	BSc (4)	2	From LIGO to Gaia: an innovative approach for detecting Gravitational Waves from Binary Supermassive Black Holes	Dr Meng Su, Department of Physics
Tsoi Jackie Chung Wing	BSc (4)	1	Panel Time Series Modelling using the LASSO	Prof Stephen M S Lee, Department of Statistics & Actuarial Science
Wang Tsz Lam	BSc (4)	1	The Design and Synthesis of conjugated polymer incorporated with cyclometalated platinum complexes	Prof Wai Kin Chan, Department of Chemistry
Wang Zeyu	BSc (4)	2	On Stein manifolds and some related topics in several complex variables	Prof Ngaiming Mok, Department of Mathematics
Wong Chin Leong*	BSc (4)	2	Synthetic study of interlocked structure: Catenane and Suitane	Dr Ho Yu Au-Yeung, Department of Chemistry
Wong Yin Pok	BSc (4)	2	Platinum and Gold Catalyzed Silicon Nanowire Growth Conditions with Machine Learning	Dr Jinyao Tang, Department of Chemistry
Wu Jiajun	BSc (4)	3	Relationship between oil price shocks and stock market volatility: a test on BRIC	Dr Ke Zhu, Department of Statistics & Actuarial Science
Xiao Xuan	BSc(ActuarSc) (4)	3	Hybrid block bootstrap for general distributional features of recurrent Markov chains	Prof Stephen M S Lee, Department of Statistics & Actuarial Science
Xu Hongting	BSc (4)	2	Role of Vangl Phosphorylation in Cancer Metastasis	Dr Bo Gao, School of Biomedical Sciences

Xu Jing*	BSc (4)	1	Nonlinear Time Series Modelling based on the Hysteretic	Prof Wai Keung Li, Department of Statistics &
			Autoregressive Time Series Models	Actuarial Science
Xu Wan	BSc (4)	2	Expression and Function of PDZD2 in Neuronal Cell Differentiation	Dr Kwok Ming Yao, School of Biomedical Sciences
			and Proliferation	
Yeung Chun Ming	BSc (4)	2	Synthetic studies on 9 and 10-membered ring carbocycles by [4+3]	Prof Pauline Chiu, Department of Chemistry
			cycloaddition	
Yeung Ryan Wai-Yen*	BSc (4)	1	Probability of electron charge misidentification at the ATLAS	Dr Yanjun Tu, Department of Physics
			experiment	
Yik Kai Hei	BSc (4)	2	Investigating Teixobactin structure-activity relationship through	Dr Xuechen Li, Department of Chemistry
			analogue synthesis	
Yip Ka Hei Anson	BSc (4)	2	A Preliminary Study on Urban Park Plant Resources for the	Dr Timothy C Bonebrake, School of Biological
			Establishment of Butterflies in Metropolitan Hong Kong	Sciences
Yip Ka Kin	BSc (4)	2	Development of RNA Interference Knockdown System for	Dr Karen W Y Yuen, School of Biological Sciences
			Investigating the Function of Essential Genes in the Budding Yeast	
			Saccharomyces cerevisiae	
Zhao Qingqing	BSc (4)	2	Study of Sulfur-28 beta-delayed proton decay	Dr Jenny H C Lee, Department of Physics

Name	Curriculum	Year	Project Title	Supervisor
Cao Weihao	BSc(4)	2	Machine learning and its application to practical classification problems	Prof Jian Wang, Department of Physics
Chan Chiu Tung	BSc(4)	3	Isolating Articular Cartilage Superficial Zone Protein for Proteomics	Prof Danny Chan, School of Biomedical Sciences
Chan Shu Ting	BSc(4)	2	Relationship of phytate uptake from bread and the absorption of calcium in human	Dr Jennifer M F Wan, School of Biological Sciences
Chandra Aditi	BSc(4)	2	Identification fcation of Genetic Events that Drive Oncogenesis	Dr Jiangwen Zhang, School of Biological Sciences
Cheng Cheuk Yin	BSc(4)	3	Functional Characterization of DYRK1A-mediated Histone Phosphorylation in DNA Double-strand Break Repair	Prof Dong-yan Jin & Dr Michael S Y Huen, School of Biomedical Sciences
Cheung Hiu Ying	BSc(4)	3	To investigate whether Cathepsin G is the key molecule involved in anti-metastasis effect of YB1	Prof Jiandong Huang, School of Biomedical Sciences
Chong Pooi Seong	BSc(4)	2	Mask Free Lithography Using a Laser System with 405nm Laser and a Motorized Stage	Prof Xiaodong Cui, Department of Physics
Cynthia Caroline	BSc(4)	2	The Relationship of Fibrillin with Asporin in TGF-β Signaling	Prof Danny Chan, School of Biomedical Sciences
Ding Anyang	BSc(4)	3	Palebiogeographic Analysis of Coelurosaurian Evolution	Dr Michael D Pittman, Department of Earth Sciences
Fan Kwok Lung	BSc(4)	2	Using hydrogen data to trace the galactic magnetic field and dust polarization angle for cosmic microwave background foregrounds	Dr Meng Su, Department of Physics
Fung Lok Hin	BSc(4)	3	Study on the Impact of Climate Change on the Phenology of Birds in China	Dr Timothy C Bonebrake, School of Biological Sciences

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Gao Yuhe	BSc(4)	2	Improved Estimation of Population Proportion Using Ranked Set	Dr Philip L H Yu, Department of Statistics & Actuarial
	DG (1)		Sampling	Science
Gong Zhengyangguang	BSc(4)	2	Simulation of the Polarized Magnetic Field In the Milky Way Galaxy	Dr Meng Su, Department of Physics
			with polarized thermal dust emission of Planck and rotation measures	
Gu Jiacheng	BSc(4)	2	Study of the Molecular Mechanisms of Nitric Oxide Synthase	Prof Billy K C Chow, School of Biological Sciences
			Isoforms' Action in Heart Failure	
Halim Melanie*	BSc(4)	2	A Functional Coating on Silicon Microswimmers	Dr Jinyao Tang, Department of Chemistry
Han Wendi	BSc(4)	2	Computing ω-values of Generators of Numercial Monoids	Dr Yuk Kam Lau, Department of Mathematics
He Anshan	BSc(ActuarSc) (4)	3	Selection of block number and block length in moving block	Prof Stephen M S Lee, Department of Statistics &
			bootstrap inference for quantiles of stationary time series	Actuarial Science
Ho Sik Yin	BSc(4)	2	Effect of concentration of streptavidin on crosslinking-induced	Dr Chi Wai Lee, School of Biomedical Sciences
			endocytosis of acetylcholine receptors	
Hsieh Chia-chi	BSc(4)	2	Investigation of the protein Scl1 and sHIP as potential vaccine	Prof Jiandong Huang, School of Biomedical Sciences
			antigens against Streptococcus pyogenes (GAS) infections	
Hung Sze Ki	BSc(4)	3	Use of Human Induced Pluripotent Stem Cell-derived Sensory	Prof Daisy K Y Shum, School of Biomedical Sciences
			Neurons to Signal for Myelination	
Jin Shasha	BSc(4)	1	Design, Synthesis and Photophysical Study of Water-Soluble	Prof Vivian W W Yam, Department of Chemistry
			Conjugated Polyelectrolytes	
Keudenova Diana	BSc(4)	2	"Play&Glow" - Promoting healthy lifestyle by connecting Hong Kong	Dr Tanja Sobko, School of Biological Sciences
			families with preschool children to nature	
Kong Wang Yeuk	BSc(4)	1	Synthesis of Teixobactin analogues for establishment of structure-	Dr Xuechen Li, Department of Chemistry
			activity relationship	
Lai Lexiao	BSc(4)	2	Assessing Portfolios Containing Assets in the World Market	Dr Siu Pang Yung, Department of Mathematics
Lam Ho Yin	BSc(4)	2	Structure-Activity Relationship Study of Teixobactin by Analogues	Dr Xuechen Li, Department of Chemistry
			Synthesis	
Lam Kai Ching	BSc(4)	1	Identifying age-related genes important for chromosome instability	Dr Karen W Y Yuen, School of Biological Sciences
Lam Yan Yi	BSc(4)	2	Interaction between FOXM1 and PRDM14 and Role of FOXM1 in	Dr Kwok Ming Yao, School of Biomedical Sciences
			Regulating Ovarian Carcinoma Cell Proliferation	<b>2</b>
Lee Hyeyoung	BSc(4)	1	Evaluation of the anti-cancer stem cell (CSCs) efficacy of compound	Prof Alice S T Wong, School of Biological Sciences
			K and compound PPD treatment, and their effect on the gene	
			expression of Stem Cell Marker and EMT Markers	
Lee Sungmin	BSc(4)	3	Analysis of Ionising Radiation on DNA Repair Pathways Using	Dr Nai Sum Wong, School of Biomedical Sciences
			Imaging Techniques	
Leng Jiaqi	BSc(4)	1	On the Running Time of An Algorithm to Construct A Supersingular	Dr Benjamin R Kane, Department of Mathematics
			Elliptic Curve With A Given Endormorphism Ring	
Leung Joyce Wei Yin	BSc(4)	2	Investigation on Duplicate Bridge Movements – Howell and Mitchell	Dr Ka Ho Law, Department of Mathematics
			Movements	

Leung On Yi	BSc(4)	2	Effects of dietary extra virgin olive oil and olive oil on reducing oxidative stress in rat brain	Dr Jetty C Y Lee, School of Biological Sciences
Li Changxuan	BSc(4)	3	Statistical Models for Studying Pricing Strategies in Aviation from Shanghai to Tokyo	Dr Philip L H Yu, Department of Statistics & Actuarial Science
Li Hanfei	BSc(4)	1	Design and synthesis of stapled peptide that mimic estrogen	Dr Xuechen Li, Department of Chemistry
Li Jinyang*	BSc(ActuarSc) (4)	3	Optimal Life Insurance of a Family with Working Couple - A Dynamic Programming Approach	Prof Hailiang Yang, Department of Statistics & Actuarial Science
Li Ruohan	BSc(4)	2	Comparison and Integration of Different Post-model-selection Inference Procedures	Prof Stephen M S Lee, Department of Statistics & Actuarial Science
Lo Yik Hei	BSc(4)	2	DNA-programmed Tetrahedral Enzyme Cascade	Dr Xiaoyu Li, Department of Chemistry
Mak Ho Man	BSc(4)	3	Synthesis and Self-assembly Studies of Bi- and Tridentate Ligand Building Blocks for Unsymmetrical [2]catenanes	Dr Ho Yu Au-Yeung, Department of Chemistry
Ng Hin Ching	BSc(4)	1	Detrital zircons of the east Pilbara craton, Western Australia: A test of vertical tectonic v.s. plate tectonic model	Dr Alex Webb, Department of Earth Sciences
Ng Raissa Regina	BSc(4)	2	Elucidating the role of centromeric protein B in C. elegans	Dr Karen W Y Yuen, School of Biological Sciences
Ng Yan Ting	BSc(4)	2	Derivation of Fate-committed Schwann Cells from Bone Marrow Stromal Cells for Re-myelination Therapy - A Pilot Study with Rat Cells	Prof Daisy K Y Shum, School of Biomedical Sciences
Niu Xueyan	BSc(4)	2	Bayesian Inference for Gaussian Random Field	Dr Zhiwen Zhang, Department of Mathematics
Peng Lianghui	BSc(4)	2	Analysing material microstructure using convolutional neural network	Prof Jian Wang, Department of Physics
Ramesh Tejaskumar	BSc(4)	1	All finite stable points of infinite distributions	Dr Benjamin R Kane, Department of Mathematics
Sau Gin Heng	BSc(4)	4	Evaluation on the Effectiveness of Bleaching in Removing Trace Element Contamination During Cleaning of Ostracod Genus Krithe	Dr Christelle A Not, Department of Earth Sciences
Senthil Kumar Neema	BSc(4)	1	Investigating the past millennium's Hydroclimatic Variations in the Northern Chinese Daihai Lake Region	Dr Zhonghui Liu, Department of Earth Sciences
Shao Xiaoman	BSc(4)	1	Construction and Bacterial Expression of MTDH Deletion Mutants	Prof Alice S T Wong, School of Biological Sciences
Singh Jaskarandip	BSc(4)	3	The effect of chronic stimulation on prelimibic cortex of the ventral medial prefrontal cortex	Prof Daisy K Y Shum & Dr Lee Wei Lim, School of Biomedical Sciences
So Chi Chiu*	BSc(4)	3	Numerical Homogenization of Multiscale Problems Using the Hierarchical Matrix Method	Dr Zhiwen Zhang, Department of Mathematics
So Wing Lam	BSc(4)	2	Cellular Senescence in Mice Intervertebral Disc During Aging	Prof Kathryn S E Cheah, School of Biomedical Sciences
Su Yun-kuan	BSc(4)	1	The study of Arrow's Impossibility theorem and the Gibbard-Satterthwaite theorem	Prof Tuen Wai Ng, Department of Mathematics
Subah Silma	BSc(4)	2	Behavioral Read-outs of Perturbed Regulation in the Critical Period for Hardwiring the Sensori-motor Pathway for Graviception	Prof Daisy K Y Shum, School of Biomedical Sciences
Tang Jincheng	BSc(4)	2	Representations of Integers by Quadratic Polynomials	Dr Benjamin R Kane, Department of Mathematics

Tang Tsz So Acacia	BSc(4)	1	Cancer epigenetics	Dr Jiangwen Zhang, School of Biological Sciences
Taranjit-singh	BSc(4)	1	Density Profiles of Smooth and Non-smooth Component of Dark Matter	Dr Meng Su, Department of Physics
Tin Kwan Yau	BSc(4)	1	Tail the snails - Trail following behaviour in intertidal gastropods during mating season	Prof Gray A Williams, School of Biological Sciences
Tsang Kin Ming	BSc(4)	1	Factorization of Monoids	Dr Yuk Kam Lau, Department of Mathematics
Tsang To	BSc(4)	2	DNA Nanomedicine for targeted cancer therapy	Prof Dong-yan Jin & Prof Zhongjun Zhou, School of Biomedical Sciences
Tse Sze Wai*	BSc(4)	1	A novel way to co-express multiple polypeptides in chloroplasts	Dr Wallace B L Lim, School of Biological Sciences
Tsun Shue Man	BSc(4)	2	Bacterial Count and Mono- and Dual- Biofilm Studies on Wooden Cutting Boards in Hong Kong's Wet Markets	Dr Olivier Habimana, School of Biological Sciences
Wang Chuwen	BSc(4)	2	Some algebras associated to automorphisms of elliptic curves	Dr Zheng Hua, Department of Mathematics
Wang Daoye	BSc(4)	3	Random Fields Realization by Circulant Embedding	Dr Zhiwen Zhang, Department of Mathematics
Wang Jingxuan	BSc(4)	3	Statistical Inference for High-Dimensional Nonparametric Regression Using the Bootstrap	Prof Stephen M S Lee, Department of Statistics & Actuarial Science
Wei Ningning	BSc(4)	2	Fixed Point Theorems in Metric Spaces and Their Applications	Prof Wing Sum Cheung, Department of Mathematics
Wong Choi Yiu	BSc(4)	2	Histological Characterization of Embryonic Gut from a Novel Sox10 Mutant Mouse Line	Prof Kathryn S E Cheah, School of Biomedical Sciences
Wong Hong Tsun	BSc(4)	1	Searching for the Origin of High Energy Cosmic Ray Electron	Dr Meng Su, Department of Physics
Wong Yin Pok	BSc(4)	1	Design, Synthesis, Photophysical and Electrochemical Study of Bicyclometalated Alkynylgold(III) Complexes	Prof Vivian W W Yam, Department of Chemistry
Wu Yaochen	BSc(4)	3	Comparison Theorems in Riemannian Geometry	Prof Ngai Ming Mok, Department of Mathematics
Yeung Tik Tsun	BSc(4)	1	NPTool Simulation of Silicon Detector	Dr Jenny H C Lee, Department of Physics
You Zhaohe	BSc(4)	2	Selection of DNA-encoded Dynamic Library with Anchor against Selected Biological Target	Dr Xiaoyu Li, Department of Chemistry
Zhang Zikuan	BSc(4)	1	Time to event analysis for personal loan data	Dr Jinfeng Xu, Department of Statistics & Actuarial Science
Zhao Qingqing	BSc(4)	1	The GET System for Silicon Detectors	Dr Jenny H C Lee, Department of Physics
Zheng Shaoxiong	BSc(4)	2	Quantitative Trading Strategies Based on Time Series Analysis	Dr Ke Zhu, Department of Statistics & Actuarial Science

Name	Curriculum	Year	Project Title	Supervisor
Amruth Alfred	BSc(4)	3	Using Nature's Cosmic Telescopes to study the Early Universe	Dr Jeremy J L Lim, Department of Physics
Au Tsun Fung	BSc(4)	3	Does global warming bring in new butterfly species to Hong Kong?	Dr Timothy C Bonebrake, School of Biological
				Sciences
Bong Bon	BSc(4)	2	On the Universality of Sums of Polygonal Numbers	Dr Benjamin R Kane, Department of Mathematics

Calvin	BSc(4)	3	Spin Dynamics in One-dimensional Spin Models	Dr Shizhong Zhang, Department of Physics
Chan Kong Wing	BSc(4)	2	Estimation of the age effect on DFS of breast cancer patients based on the partly linear Cox model	Dr Eddy K F Lam, Department of Statistics & Actuarial Science
Chan Ting Ho	BSc(4)	3	Synthesis of Teixobactin Analogues to Search for New Antibiotics	Dr Xuechen Li, Department of Chemistry
Chen Yuming	BSc(4)	2	Dimension of Voting System in EU Council under Lisbon Voting Rules	Prof Tuen Wai Ng, Department of Mathematics
Cheng Kai Man	BSc(4)	2	Analysis of Lipids and Fatty Acids in Corals	Dr Jetty C Y Lee, School of Biological Sciences
Cheung Man Him	BSc(4)	2	Characterization of HP1α Acetylation	Prof Zhongjun Zhou, School of Biomedical Sciences
Chu Ka Chi	BSc(4)	2	Optimization of Planarian Cell Isolation and Neoblast Culture	Prof Danny Chan, School of Biomedical Sciences
Chu Ku Yin	BSc(4)	2	Uhrf1 Regulates Klf4 Stability Through Polyubiquitination	Prof Zhongjun Zhou, School of Biomedical Sciences
Ding Yuyan	BSc(4)	2	The effect of non-enzymatically derived metabolites on human neuroblastoma cells	Dr Jetty C Y Lee, School of Biological Sciences
Dong Chenxue	BSc(4)	3	The determinants of Default and Prepayment on fixed rate residential mortgage loans	Dr Jinfeng Xu, Department of Statistics & Actuarial Science
Fung Ka Yi	BSc(4)	3	Synthesis of Histone H4K31ac by Expressed Protein Ligation	Dr Xiang Li, Department of Chemistry
Gao Rui	BSc(4)	2	Biorthogonal Detection of Lipidation Induced by Lauric Acid	Prof Dan Yang, Department of Chemistry
Gu Haotian	BSc(4)	2	Attractor-strengths in Boolean Networks and a Class of Stable Structures	Prof Wai Ki Ching, Department of Mathematics
He Jilin	BSc(4)	3	Preparation of lipid reporters and profiling of potenial protein targets	Prof Dan Yang, Department of Chemistry
Ho Ngai Hei Ernest	BSc(4)	3	Temporal Variation of Plastic Debris Composition in Littoral Zone in Response to Wave, Wind and Tide	Dr Christelle A Not, Department of Earth Sciences
Lam Joy Yan	BSc(4)	3	Molecular Cloning of Grass Carp HNF3α & Functional Expression on LHβ promoter in αT3 cells	Prof Anderson O L Wong, School of Biological Sciences
Lang Yen-po	BSc(4)	3	Elucidating Human Cyclophilin B Properties as a Polyphosphate- binding Protein	Dr Julian A Tanner, School of Biomedical Sciences
Lau Ho Ting	BSc(4)	3	Synthesis and analysis of Teixobactin analogues	Dr Xuechen Li, Department of Chemistry
Levitskaya Zarina	BSc(4)	3	To compare cancer against normal samples with TCGA data and identify lincRNA involved in oncogenesis	Dr Jiangwen Zhang, School of Biological Sciences
Linardi Clarissa	BSc(3)	1	The Anticancer Mechanism of the Chinese Medicinal Mushroom Phellinus linteus	Dr Jennifer M F Wan, School of Biological Sciences
Liu Chen	BSc(4)	1	Gastric Cancer Map An integrative resource for human gastric cancer	Dr Jiangwen Zhang, School of Biological Sciences
Lui Wai Yin	BSc(4)	3	Role of viral proteins BPLF1 and BLRF2 of Epstein-Barr virus in suppressing antiviral DNA sensing pathway	Prof Dong Yan Jin, School of Biomedical Sciences
Ma Wing Tung	BSc(4)	3	Exploring the signal transduction route in bacterial two-component system CusSR	Dr Aixin Yan, School of Biological Sciences

Man Ho Lai Hilary	BSc(4)	3	Reconstruction of bottom-water temperature using Mg/Ca ratio of ostracode shells	Dr Christelle A Not, Department of Earth Sciences
Ni Haozheng	BSc(4)	3	A New Indicator of Dependence Structure for Discrete-Valued Time Series	Dr Guodong Li, Department of Statistics & Actuarial Science
Park Hyungjun	BSc(4)	2	Investigation of Phage Profiles in the Gut Microbiota of Obese and Lean Individuals	Dr Gianni Panagiotou, School of Biological Sciences
Poh Wei Church	BSc(4)	2	Synthesis, Photophysics and Electrochemistry of Luminescent Organometallic	Prof Vivian W W Yam, Department of Chemistry
Qian Yikun	BSc(4)	2	An analysis of bootstrap aggregation methods in cancer research using gene expression data	Prof Stephen M S Lee, Department of Statistics & Actuarial Science
Qiu Yang	BSc(4)	3	Differential forms and De Rham Theory	Dr Zheng Hua, Department of Mathematics
Reuven Jonathan Avraham	BSc(4)	3	Developing a Structure-Activity Relationship for New Antibiotic Teixobactin	Dr Xuechen Li, Department of Chemistry
Saha Sukanya	BSc(4)	2	Investigating nesting limitations and preferences in Hong Kong ants	Dr Benoit Guenard, School of Biological Sciences
Saran Ravneet	BSc(4)	1	Development of DNA aptamer-bound magnetic microbeads with HRP-mimicking properties	Dr Julian A Tanner, School of Biomedical Sciences
Shukla Yash Sanjaykumar	BSc(4)	1	Development of an aptamer-mediated sandwich assay for the detection of Plasmodium falciparum lactate dehydrogenase	Dr Julian A Tanner, School of Biomedical Sciences
Sun Jiashuo	BSc(4)	2	Variable Selection and Inference for Nonparametric Logistic Regression	Prof Stephen M S Lee, Department of Statistics & Actuarial Science
Tsang Kenneth Chi Hoy	BSc(4)	3	Basic Operations on Differential Forms	Prof Wing Sum Cheung, Department of Mathematics
Wai Chi Nga	BSc(4)	3	Structure-Activity Relationship Investigation of Teixobactin	Dr Xuechen Li, Department of Chemistry
Wan Zhihan*	BSc(4)	2	Selective and efficient reduction of carbon dioxide (CO2) on p-typed silicon/ tungsten oxide (W18O49) nanowires	Dr Jinyao Tang, Department of Chemistry
Wang Jianian	BSc(4)	2	A Two-Stage Bootstrap Approach to Meta-Analysis	Prof Stephen M S Lee, Department of Statistics & Actuarial Science
Wang Liuwei	BSc(4)	1	Ecological impacts of agroforestry on ant communities in Hainan Island, Mainland China	Dr Benoit Guenard, School of Biological Sciences
Wang Shuyuan	BSc(4)	3	Molecular Cloning and Protein Expression of Goldfish Adiponectin	Prof Anderson O L Wong, School of Biological Sciences
Wong Dag	BSc(4)	3	Does PRDM14 interact with FOXM1 to orchestrate epigenetic regulation of cell proliferation in normal and cancer cells?	Dr Kwok Ming Yao, School of Biomedical Sciences
Wong Kin Long	BSc(4)	2	Metabolic Reconfiguration in Glycogen Synthase Gene (GYS1) knock Out Human Intestinal Cancer Cells - Effect on Apoptosis	Dr Nai Sum Wong, School of Biomedical Sciences
Yau Yu Yan	BSc(4)	3	Nitrate reductase activity in coral Symbiodinium clades	Dr David M Baker, School of Biological Sciences
Zeng Ji	BSc(4)	1	Generalizations of Schwarz lemma	Prof Ngai Ming Mok, Department of Mathematics
Zhang Yechi	BSc(4)	2	Star Formation in Central Giant Ellipsoidal Galaxies of Clusters	Dr Jeremy J L Lim, Department of Physics
Zhou Ruiyi	BSc(4)	2	Open Quantum System Calculation: Simulation of Current-Induced Dissociation of Water Molecule on Metal Surface	Prof Guanhua Chen, Department of Chemistry

Zhu Zhiyuan	BSc(4)	2	Development of A New Lysosome-targeting Fluorescent Probe for	Prof Dan Yang, Department of Chemistry
			Hypochlorous Acid	

Name	Curriculum	Year	Project Title	Supervisor
Chen Jiawei	BSc(4)	3	Silver Halide Sensitized Graphene Photodetector	Dr Jinyao Tang, Department of Chemistry
Cheung Hey Pui	BSc(4)	2	Synthesis of Daptomycin Analogues - the Next Generation Antibiotics	Dr Xuechen Li, Department of Chemistry
Chung King Lun	BSc(4)	3	Synthesis of alkyne-tagged photoreactive amino acid that enables to investigate protein-protein interactions	Dr Xiang Li, Department of Chemistry
Dai Wei	BSc(4)	3	Fabrication of Si/TiO2 Nanomotor	Dr Jinyao Tang, Department of Chemistry
Duraisamy Karthi	BSc(4)	3	Heterodimerization in G Protein-coupled receptors family by BRET analysis: Human Secretin Receptor and Acetylcholine receptors	Prof Billy K C Chow, School of Biological Sciences
Fang Boli	BSc(4)	1	Analysis of quantum transport process under voltage through computational methods	Prof Jian Wang, Department of Physics
Feng Qingyuan	BSc(4)	3	Finding the best models in Analyzing and Predicting Tourism Data	Dr Guodong Li, Department of Statistics & Actuarial Science
Fong Pak Ming	BSc(4)	2	Developing chemical reporters to profile modification sites of lysine long chain fatty acylation	Dr Xiang Li, Department of Chemistry
Fung Ho Ching	BSc(4)	2	Intramolecular [4+3] Cycloaddition of Aziridinyl Enolsilane	Prof Pauline Chiu, Department of Chemistry
Ho Pak Ching	BSc(4)	2	Type II collagen degradation and the development of long bones	Prof Danny Chan, School of Biomedical Sciences
Hsu Sze Ching	BSc(4)	2	Investigations on protein interactors of an Arabidopsis thaliana acyl-CoA-binding protein (AtACBP)	Prof Mee-Len Chye, School of Biological Sciences
Hui Lok Chung	BSc(4)	3	Functional Roles of hnRNPA1 in mouse developing spinal cord	Dr You-Qiang Song, School of Biomedical Sciences
Lam Shiu Yeung	BSc(4)	3	Immobilization of recombinant Chondroitinase ABC I for improved stability and efficacy in glial scar treatment	Prof Daisy K Y Shum, School of Biomedical Sciences
Lee Kyung Hwan	BSc(4)	3	Validation of Hox gene Expression in Developing Mouse Notochord	Prof Kathryn S E Cheah, School of Biomedical Sciences
Lei Kuan Cheok	BSc(4)	3	Isolation and identification of Cellulose-degrading and Lignin- degrading Microbes in intestinal flora of camel and other sources	Prof Frederick C C Leung, School of Biological Sciences
Leung Kai Chuk	BSc(4)	3	Measurement of gold nanoparticles that are below the detection limit of single-particle ICPMS	Dr Wing Tat Chan, Department of Chemistry
Leung On Wah	BSc(4)	3	Lgr6 Expression in Synovial Joint Development	Prof Danny Chan, School of Biomedical Sciences
Leung Yu Yan	BSc(4)	3	Exploring the Stable Isotope Signatures of Birds in Hong Kong using their feathers	Dr Caroline E Dingle, Department of Earth Sciences & Dr David M Baker, School of Biological Sciences

Li Hung Wa	BSc(4)	2	Studies on Intramolecular [4+3] cycloadditions of epoxy enolsilanes	Prof Pauline Chiu, Department of Chemistry
Li Jiayi	BSc(4)	2	The Generalized Factorial Function and its Properties	Prof Kai Man Tsang, Department of Mathematics
Li Shuangning	BSc(ActuarSc) (4)	2	A regularization-based hypothesis test for linear regression models and related applications	Prof Stephen M S Lee, Department of Statistics & Actuarial Science
Li Shuangping	BSc(ActuarSc) (4)	2	The hyperbolic metric and geometric function theory	Prof Tuen Wai Ng, Department of Mathematics
Lo Shun Yu	BSc(3)	3	The Anti-Cancer Effect of Phellinus linteus on Human Leukemic HL-60 Cells	Dr Jennifer M F Wan, School of Biological Sciences
Lou Shing Bong	BSc(4)	2	A Practical Method for Generation of Unstabilized Diazo Compounds for Organic Reactions	Prof Chi Ming Che, Department of Chemistry
Lui Cheuk Woon	BSc(4)	3	Characterization of the flavonoid hydroxylation activities of a cytochrome P450 protein in Sorghum bicolor	Dr Clive S C Lo, School of Biological Sciences
Ma Wai Sum	BSc(4)	2		Dr Michael Pittman, Department of Earth Sciences
Mak Ka Ho Jason	BSc(4)	3	Study of adenine nucleotide metabolizing enzymes expression in cultured cell lines	Dr Nai Sum Wong, School of Biomedical Sciences
Man Jason Yin Hei	BSc(4)	2	Towards the Self-Assembly of [2]Catenanes from Octahedral Metal Templates with Reversible Imine Ring-Closing Reactions	Dr Ho Yu Au-Yeung, Department of Chemistry
Man Pui Hei Marcus*	BSc(4)	1	Identification of novel cGAMP phosphodiesterases in cGAS-STING pathway	Prof Dong-Yan Jin, School of Biomedical Sciences
Man Siu Hang	BSc(4)	2	Synthesis of Molybdenum Disulfide Monolayer as Potent Thermoelectric Material	Dr Jinyao Tang, Department of Chemistry
Rabbani Mashiat	BSc(4)	2	The function of β-catenin in hindbrain neurogenesis	Prof Mai Har Shum, School of Biomedical Sciences
Seow Jia Yin	BSc(4)	3	Conservation Status Assessment of Selected Hong Kong Marine Fishes According to IUCN Red List Categories and Criteria	Prof Yvonne J Sadovy, School of Biological Sciences
Shen Ji	BSc(4)	3	Analyzing PM2.5 in Hong Kong from a statistical aspect	Prof Jeff J F Yao, Department of Statistics & Actuarial Science
Siu Wing Hin Stanford	BSc(4)	2	Investigation of Kif5b-driven Anterograde Transport: Optimizing Western Blot and Confirming the Specificity of a Home-made Kif5b Antibody	Prof Jiandong Huang, School of Biomedical Sciences
Tse Yuen Cheong	BSc(4)	2	Synthesis and Self-Assembly Studies of Phenanthroline-Based Building Blocks for [2]Catenane Construction	Dr Ho Yu Au-Yeung, Department of Chemistry
Tseung Chi Hung	BSc(4)	3	The individual and combined effect of mycotoxins on modulation of mucus mRNA expression on human intestinal epithelial cells	Dr Hani S El-Nezamy, School of Biological Sciences
Wang Di	BSc(ActuarSc) (3)	2	Valuing equity-linked insurance products and options in a Markov regime-switching model	Prof Hailiang Yang, Department of Statistics & Actuarial Science
Wei Jihan	BSc(4)	3	Methods of Making Bootstrap Predictive Inference for Time Series, with application to PM 2.5 data	Prof Stephen M S Lee, Department of Statistics & Actuarial Science

Wong Ka Kiu	BSc(4)	2	The effect of habitat-dependent ambient noise on Red-whiskered Bulbul song	Dr Caroline E Dingle, Department of Earth Sciences
Wong Thomas Hin Fung	BSc(4)	2	Detection of Epstein-Barr Virus by CRISPR/Cas9 Technology	Prof Dong-Yan Jin, School of Biomedical Sciences
Wong Tsz Lam Matthew	BSc(4)	3	The effect of an enzyme-specific inhibitor on Arabidopsis seedling development	Prof Mee-Len Chye, School of Biological Sciences
Xu Yujie	BSc(4)	3	Explicit P-adic Modular Forms from Mock Modular Forms	Dr Benjamin R Kane, Department of Mathematics
Yan Junran*	BSc(4)	1	Interaction of AtPAP2 and AtPAP9 with ATP Synthase Beta-Subunits	Dr Wallace B L Lim, School of Biological Sciences
Yang Zhou	BSc(4)	2	Chandra observation of the magnetar SGR 0501+4516	Dr Stephen C Y Ng, Department of Physics
Yau Yu Fung	BSc(4)	3	Modulation of mucin mRNA expression upon bacterial exposure in human intestinal cells and the protective effects of probiotic Escherichia coli Nissle 1917	Dr Hani S El-Nezamy, School of Biological Sciences
Ye Xiyun	BSc(4)	1	Synthesis of Daptomycin Analogs based on the Total Synthesis of Daptomycin	Dr Xuechen Li, Department of Chemistry
Yeung Kar Fu	BSc(4)	2	Tail index regression for severity of terrorist events	Prof Stephen M S Lee, Department of Statistics & Actuarial Science
Ying Luk Hin	BSc(4)	3	To confirm the specificity of the home-made KIF5B antibody and to investigate the interaction of KIF5B with CLH in adult mouse cortex	Prof Jiandong Huang, School of Biomedical Sciences
Yue Kun	BSc(4)	2	Construction of confidence set for relative risk region	Prof Stephen M S Lee, Department of Statistics & Actuarial Science
Zhang Yue	BSc(4)	3	Development of Latent Fingerprint by Silver-Gold Alloy Nanoparticles	Dr Kwan Ming Ng, Department of Chemistry
Zhang Zhiqian	BSc(4)	2	Eradicating Latent Epstein-Barr Virus Infection by CRISPR/Cas9 Mediated EBNA1 Knockout as a Potential Treatment of Nasopharyngeal Carcinoma	Prof Dong-Yan Jin, School of Biomedical Sciences
Zhao Jingyu	BSc(ActuarSc) (4)	2	Kelly Optimal Portfolio and Tangency Portfolio Estimation using GPQ-based Two-step Approaches	Dr Philip L H Yu, Department of Statistics & Actuarial Science

# <u>2013-14</u>

Name	Curriculum	Year	Project Title	Supervisor
Cao Haoyang	BSc(3)	2	Computation of Channel Capacity With a Recent Algorithm	Dr Guangyue Han, Department of Mathematics
Chan Kin Ho	BSc(3)		Molecular Mechanism of Regulation of mRNA Stability by CHOP 3'UTR	Dr Nai Sum Wong, Department of Biochemistry
Chen Cuncheng	BSc(3)		Studies of interaction effects in Bose-Einstein condensate of dilute gases	Dr Shizhong Zhang, Department of Physics
Cheng Yu Hong	BSc(3)		Investigation of the binding site for fangchinoline by photoaffinity labeling	Prof Pauline Chiu, Department of Chemistry
Cheung Tin Lai	BSc(3)	2	hnRNP A1 regulates transcription factors in heart development	Dr You Qiang Song, Department of Biochemistry

Fan Ruolin	BSc(4)	2	Examining the Knockdown Effects of Coxsackievirus and Adenovirus Receptor on ZO-1 and JAM-C in Germ Cells	Dr Wing Yee Lui, School of Biological Sciences
Fung Cheuk Lai	BSc(3)	2	Mechanism of Suppression of Interferon Production by Middle East	Prof Dong Yan Jin, Department of Biochemistry
Fung Ka Ching	BSc(3)	2	Respiratory Syndrome Coronavirus M Protein  Studies of the improved protecting group-free synthetic route of substituted BINOL phosphoric acid	Prof Pauline Chiu, Department of Chemistry
Guo Fengyi	BSc(4)	2	How does urbanization affect communication of spotted doves in Hong Kong?	Dr Caroline Dingle, School of Biological Sciences & Dr Timothy Bonebrake, Department of Earth Sciences
Halim Henry	BSc(3)	2	Catalytic conversion of Acetylene to ploycyclic aromatic hydrocarbons over particles of Silicon Carbide	Prof Allan S C Cheung, Department of Chemistry
Massan Ayon Ahmed	BSc(4)	2	A metagenomic approach to study the microbial ecology of the gut of Giant Panda (Ailuropoda melanoleuca)	Prof Frederick C C Leung, School of Biological Sciences
Ho Shuk Nga	BSc(3)	2	Production and characterization of recombinant chondroitinase ABC subtypes for use in scar treatment	Prof Daisy K Y Shum, Department of Biochemistry
Hu Chenchen*	BSc(3)	2	Poisson Regression Analysis of Risk Exposures in Civil Aviation Based on GLM and MCMC Methods	Prof Stephen M S Lee, Department of Statistics & Actuarial Science
Husain Abdullah	BSc(4)	2	Identification of G Protein-Coupled Receptors interacting with human Secretin Receptor in in vitro conditions	Prof Billy K C Chow, School of Biological Sciences
Kong Oi Yin	BSc(4)	2	Characterization of the effects of resveratrol on hepatitis B virus transcription	Prof Dong Yan Jin, Department of Biochemistry
Lau Lok Yee	BSc(3)	2	Mucus trail-following behaviour in Echinolittorina snails – a strategy for mate-searching	Prof Gray A Williams, School of Biological Sciences
Lee Wan-yi	BSc(4)	2	Effect Ocean Acidification on Shell Selection of Hermit Crab Diogenes spinifrons	Prof Gray A Williams, School of Biological Sciences
Lee Yuen Man	BSc(4)	2	Differences in the expression level of PDZD2 in INS-1E cells incubated with different glucose levels	Dr Kwok Ming Yao, Department of Biochemistry
Li Wenfei	BSc(4)	2	Extending the Substrate Scope of Intramolecular (4+3) Cycloaddition between Pyrrole and Enolsilanes	Prof Pauline Chiu, Department of Chemistry
Liu Shengxuan	BSc(4)	1	Computer Simulation of Molecular Motor	Prof Guanhua Chen, Department of Chemistry
Liu Tianyu	BSc(4)	1	Detection Of G6Pase In Different Cancer Cell Lines	Dr Nai Sum Wong, Department of Biochemistry
Liu Yangdongling	BSc(4)	2	Synthesis, Characterization and Photophysical Study of Alkynylplatinum(II) Phosphine Complexes	Prof Vivian W W Yam, Department of Chemistry
Luo Di*	BSc(4)	2	The Study of the Perfectly Matched Layer in Quantum Transport Calculation	Prof Jian Wang, Department of Physics
Mao Chenyu	BSc(3)	2	Managing Risk of Equity-linked Insurance Products	Prof Hailiang, Department of Statistics & Actuarial Science
Mau King Hang*	BSc(3)	2	The Role of Foxi1 Transcription Factor on Co-regulation of Irx3/5 in Mammalian Inner Ear Development	Prof Mai Har Shum, Department of Biochemistry
Ng John Joson Quimpo	BSc(4)	1	Effect of gold complexes on accumulation of ubiquitinated proteins in human cervical epithelial cancer cells	Prof Chi Ming Che, Department of Chemistry

Pan Xuetan	BSc(4)	2	Modeling of Photochemical Smog Formation In Hong Kong	Dr Shizhong Zhang, Department of Physics
Sze-to Shek Chung	BSc(3)	2	Polyphosphate binding domain (PPBD) expression, purification and	Dr Julian A Tanner, Department of Biochemistry
			characterization	
Wai Hoi Yip	BSc(3)	2	Characterization of copper resistance bacteria in surface sediment of	Prof Frederick C C Leung, School of Biological
			Kwun Tong typhoon shelter	Sciences
Wang Laixi	BSc(3)	2	Hybrid confidence region based on a combination of frequentist and	Prof Stephen M S Lee, Department of Statistics &
			Bayesian methods	Actuarial Science
Wang Qinan	BSc(4)	2	X-ray Study of the Frying Pan Nebula	Dr Stephen C Y Ng, Department of Physics
Wang Zhongmin*	BSc(4)	2	Determining the biological function of Epstein-Barr virus BART	Prof Dong Yan Jin, Department of Biochemistry
			microRNAs by use of CRISPR/Cas9 technology	
Wen Boya	BSc(4)	2	Hyperbolic Geometry and its Visualization	Dr Yat Ming Chan, Department of Mathematics
Wong Wai Chung	BSc(3)	2	Development of DNA aptamers for diagnostics	Dr Julian A Tanner, Department of Biochemistry
Xu Qingfeng	BSc(4)	2	Ricardian Equivalence Hypothesis Revisited: A Vector Error-	Dr Gilbert C S Lui, Department of Statistics &
			correction Approach	Actuarial Science
Zhang Qiushui	BSc(4)	2	Data analysis of microRNA and Glioblastoma multiforme genome	Dr Jiangwen Zhang, School of Biological Sciences
			with Roleswitch in R/Bioconductor	
Zhang Ruixian	BSc(4)	2	Characterization of a novel posttranslational modification on histone	Dr Xiang Li, Department of Chemistry
Zhang Yongquan	BSc(4)	2	Smale's Mean Value Conjecture and Finite Blaschke Products	Dr Tuen Wai Ng, Department of Mathematics
Zhang Zhe	BSc(4)	2	Construction of mutated Kif5b fragments and detection of their	Dr Jiandong Huang, Department of Biochemistry
	` ′		interactions with NMDA receptors	
Zhao Dawei	BSc(4)	2	Estimation of the future behavior of online shopping customers based	Prof Stephen M S Lee, Department of Statistics &
			on recommendation system model	Actuarial Science
Zhao Qian	BSc(4)	2	Sirt5 regulates histone lysine glutarylation	Dr Xiang Li, Department of Chemistry

# <u>2012-13</u>

Name	Curriculum	Year	Project Title	Supervisor
Chen Zhedong	BSc(3)	2	Zero-Truncated Binomial distribution and its application	Dr G Tian, Department of Statistics & Actuarial
				Science
Cheung Ka Wai Christine	BSc(3)	1	GABA production in MRS culture medium and skim milk by	Prof N P Shah, School of Biological Sciences
			nonstarter Lactobacillus plantarum P31, an isolate from traditional	
			Chinese pickle	
Chin Promise L	BSc(3)	2	Formation of polycyclic aromatic hydrocarbons from acetylene over	Prof A S C Cheung, Department of Chemistry
			Beta silicon carbide	
Han Wenbo	BSc(3)	1	Synthesis and modification of a building block of daptomycin	Dr X C Li, Department of Chemistry
Ho Samuel Xi Wei	BSc(4)	1	Location of genes related to anthocyanin production and root	Dr C S C Lo, School of Biological Sciences
			morphology in Arabidopsis under N-free environment	
Lam Shuk Tak	BSc(3)	2	Potential of Polysaccharides derived from red seaweed as prebiotics	Prof N P Shah, School of Biological Sciences

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Lam Tsz Fung	BSc(3)	2	Investigation of the role of PAX6 in regulation of BACE2 in	Dr Y Q Song, Department of Biochemistry
* . * . * . *	DG (0)		Alzheimer's disease Pathway	
Li Yan Yan	BSc(3)	2	Interaction between probiotics and dietary polyphenols	Dr M Wang, School of Biological Sciences
Luk Chak Hon*#	BSc(3)	2	Characterization of the signal binding and transduction mutants in the	Dr A Yan, School of Biological Sciences
			CusRS copper and silver sensing two-component system and its	
			implications in heavy metal resistance in Escherichia coli	
Luk Tin Chi Steve	BSc(3)	2	Construction and characterization of ER- and lysosomal-localized	Dr J B Yue, Department of Physiology
			genetically encoded Ca2+ sensors	
Ma Kin Fai	BSc(3)	2	The oncogenic potential of FoxM1 isoform: FoxM1c	Dr K M Yao, Department of Biochemistry
Ma Tsz Shan	BSc(3)	2	Construction of Bispecific Monoclonal Antibody Targeting Toxin A	Dr J D Huang, Department of Biochemistry
			and Toxin B of Clostridium difficile	
Nanayakkara Vinethri	BSc(3)	1	Influence of Tea Catechins On Probiotic and Yogurt Starter Bacteria	Prof N P Shah, School of Biological Sciences
Isurangi	P.G. (0)		I C DVG	D CECCI CI I CELI : 10:
Ng Ho Yin	BSc(3)	2	16s rDNC partial gene sequencing for bacteria A14 from Panda fecal swab	Prof F C C Leung, School of Biological Sciences
Ng Kwok Chung Joseph	BSc(3)	1	Using Porphyrin Dimer as an Organic Dye in Solar Cells	Prof C M Che, Department of Chemistry
Poon Wing Lam	BSc(3)	2	Effects of mycotoxins (DON & ZEA) exposure and probiotic	Dr H El-Nezami, School of Biological Sciences
			supplementation on intestinal tight junctions mRNA expressions in Balb/c mice	
Shin Caren Pearl	BSc(3)	2	How's it going? Butterfly behavior in Hong Kong urban parks	Dr T C Bonebrake, School of Biological Sciences
Song Hanyu	BSc(ActuarSc)(3)	2	A Study on Evolving Market Efficiency of Hong Kong Stock Market: 1970-2013	Dr K P Wat, Department of Statistics & Actuarial Science
Sun Chenyue	BSc(4)	1	Spot out the Mainstay – SAR Study: Alanine Scanning of Daptomycin	
Tang Sze Lok Marco	BSc(3)	2	Role of CREB-regulated transcription coactivators (CRTCs) on	Dr D Y Jin, Department of Biochemistry
			transcription activation of HBV-pX promoter	
Tse Lap Hang	BSc(4)	1	Finding the Anthocyanin pigmentation related genes in Arabidopsis	Dr C S C Lo, School of Biological Sciences
Tse Tze Kei	BSc(3)	2	Review of the Stephen Hui Geological Museum fossil collection and	Dr M Pittman, Department of Earth Sciences
			vertebrate fossils from Hong Kong	
Wong Nok Hei Mickey*	BSc(4)	1	Establishing a molecular platform for the construction of Epstein-Barr	Dr Y J Dong, Department of Biochemistry
			virus molecular clone	
Wong Tsz Tsun*	BSc(3)	2	Searching for X-Ray Synchrotron Emission and Particle Acceleration	Dr S C Y Ng, Department of Physics
			in Supernova Remnant G346.6-0.2	
Wu Haoyun	BSc(3)	1	Identification of Representatives Using Data Depth Based on Within-	Prof S M S Lee, Department of Statistics & Actuarial
-			Triplet Distances Test	Science
Wu Liwen	BSc(3)	1	Elucidation of the function of Bre1, an E3 ubiquitin ligase in	Dr K W Y Yuen, School of Biological Sciences
			chromosome segregation	
Xiong Lingyun	BSc(4)	1	Role of miR-142-3p in HTLV-1 infected adult T-cell leukemia	Dr K H Kok, Department of Biochemistry

Yang Fan	BSc(3)	1	Factorial Function for Subsets of the Natural Numbers	Prof K M Tsang, Department of Mathematics
Yang Liu	BSc(3)	1	Establish an ideal world without wars-predicting and managing wars	Prof S M S Lee, Department of Statistics & Actuarial
			by ensemble learning	Science
Yeung Stephanie Wing Ki	BSc(3)	2	Optical-optical Double Resonance Spectroscopy of Scandium	Prof A S C Cheung, Department of Chemistry
			Monoxide	
Zhang Hongyuan	BSc(3)	1	Study of expression of key metabolic enzymes in cultured cancer cells	Dr N S Wong, Department of Biochemistry
			under hypoxia	
Zhang Jinxiao	BSc(3)	1	A dot-blot assay as the first step for the rapid diagnosis of malaria	Dr J A Tanner, Department of Biochemistry
Zhou Jiayuan	BSc(3)	1	Latin Squares and Mutually Orthogonal Latin Squares	Dr K H Law, Department of Mathematics
Zhou Yi	BSc(3)	1	Prediction of Oscar winners using CART	Prof S M S Lee, Department of Statistics & Actuarial
				Science

# <u>2011-12</u>

Name	Curriculum	Year	Project Title	Supervisor
Chan Hau Sun	BSc(3)	1	The asymmetric synthesis of 6-7-6 polycyclic core of Cortistatin A by a Transannular (4+3) cycloaddition	Prof P Chiu , Department of Chemistry
Chan Sing Fai	BSc(3)	2	Natural contaminants in Chinese herbal medicine	Dr H El-Nezami, School of Biological Sciences
Chen Zhihua	BSc(3)	1	Laser spectroscopy of transitional metal dimers: analysis of the electronic transition systems	Prof A S C Cheung, Department of Chemistry
Dai Jing	BSc(3)	1	Fixed point theory in metric space	Prof W S Cheung, Department of Mathematics
Dong Yichun	BSc(3)	1	Infinite sets	Dr Y M Chan, Department of Mathematics
Fok Hong Ting	BSc(3)	2	Edge state in monolayer 2-D materials	Dr W Yao, Department of Physics
Jiang Bo	BSc(3)	1	Modeling economic default times for recovery rate estimation and bond pricing	Dr W K Ching, Department of Mathematics
Kulasekara Dulani Anjana*	BSc(3)	1	Elucidating the effect of CSR-1 RNA interference pathway in accurate chromosome segregation	Dr K W Y Yuen, School of Biological Sciences
Lee Chung Yan Joan	BSc(3)	2	Effect of hydrogen peroxide on cell cycle of hep G2 cells and LS 174T cells	Dr J C Y Lee, School of Biological Sciences
Lee Jonghan Peter*#	BSc(3)	1	Chemical synthesis of peptidomimetics: synthesis of a hydrocarbon stapled Cdt1 peptides through ruthenium (II) catalyzed ring closing metathesis	Dr X C Li, Department of Chemistry
Leung Kin Sum	BSc(3)	2	The effect of hydrogen peroxide on the cell cycle of jurkat cells	Dr J C Y Lee, School of Biological Sciences
Li Wing Yeung	BSc(3)	2	A market survey of food contaminant in foods in Hong Kong - deoxynivalenol	Dr H El-Nezami, School of Biological Sciences
Li Yu	BSc(3)	1	Smale's and Sendov's conjectures for polynomials	Dr T W Ng, Department of Mathematics
Liang Ruochen	BSc(3)	1	Minimum merging in undirected graphs	Dr G Han, Department of Mathematics
Luo Jie	BSc(3)	1	Computational investigation of electron transport	Prof J Wang, Department of Physics
Ma Yik Ki	BSc(3)	2	The radio magnetosphere of chemically peculiar Bp/Ap stars	Dr J Lim, Department of Physics

On Sai Wun	BSc(3)	2	Functional and evolutionary insights into secretin receptor	Prof B K C Chow, School of Biological Sciences
Pan Wenqi	BSc(3)	1	superfamily from studies of cephalochordate  Roles of Sufu in controlling mouse hindbrain ventral neural tube development	Dr M H Sham, Department of Biochemistry
Shah Akansha Mahavir*	BSc(3)	1	The role of kinesin motor protein (KIF5B) in maintaining epithelial cell polarity	Dr J D Huang, Department of Biochemistry
Tsui Kong Tai	BSc(3)	2	Theory behind topological insulator classification	Prof S Q Shen, Department of Physics
Wang Jin	BSc(ActuarSc)(3)	1	Valuing equity linked insurance using the discounted density approach	Prof H Yang, Department of Statistics and Actuarial Science
Wang Zeren Simon	BSc(3)	2	Anomalous stokes scattering by an atomic ensemble	Dr W Yao, Department of Physics
Wong Po Yu	BSc(3)	2	The effects of cadmium, sodium selenite and arsenite on GFP expression	Dr N S Wong, Department of Biochemistry
Xu Yao*	BSc(3)	1	Synthesizing Byetta® through salicylaldehyde induced serine/threonine ligation	Dr X C Li, Department of Chemistry
Yu Kexin	BSc(3)	1	Modeling and predicting the popularity of social media content	Prof S M S Lee, Department of Statistics and Actuarial Science
Zeng Ruochen	BSc(3)	2	Tests for homogeneity in beta mixture models	Dr T S T Wong, Department of Statistics and Actuarial Science
Zhang Qichen	BSc(3)	1	Characterizing metallome in living systems: bifunctional protein tags for SDS-PAGE and ICP-MS strategies	Prof H Sun, Department of Chemistry
Zhang Yumin	BSc(3)	1	Group theory and symmetries of platonic solids	Dr Y M Chan, Department of Mathematics

#### <u>2010-11</u>

Name	Curriculum	Year	Project Title	Supervisor
Bao Chenfeng	BSc(3)	1	Simulation of Quantum Hall Effect	Prof J Wang, Department of Physics
Bui Huyen Trang	BSc(3)	2	Partial Genome Sequencing and Phylogenetic Analysis of 4 Hong	Prof F C Leung, School of Biological Sciences
			Kong Newcastle Disease Virus Isolates	
Chao Ailun	BSc(3)	1	Convergent synthesis of β-amyloid with chemical ligation	Dr X Li, Department of Chemistry
Choi Chek Hin	BSc(ActuarSc)(3)	2	Regime switching model in Finance	Prof H Yang, Department of Statistics and Acturial Science
Chung Ming Long	BSc(3)	2	Molecular cloning of adiponectin and structural analysis of adiponectin receptor in fish model	Prof A O L Wong, School of Biological Sciences
Fu Chuyuan	BSc(3)	1	Linear Geometry in Euclidean 4-space	Dr Y K Lau, Department of Mathematics
Guan Xinyu	BSc(3)	1	Synthesis of terpyridine derivatives from 2, 6-bis (2'-pyridyl)-4-pyridone for photosensitive polymers	Prof W K Chan, Department of Chemistry
Ho Sze Hang	BSc(3)	2	Investigating the role of Fgf signaling in the regulation of Sox9 expression in the developing chick neural tube	Dr M Cheung, Department of Biochemistry
Hung Oi Ying	BSc(3)	1	Investigation of the impact of post-translational modifications on Sox9 transcriptional activity	Dr M Cheung, Department of Biochemistry
Kala Shashwati*#	BSc(3)	2	Elucidation of PAMAM dendrimers as nanovectors for efficient siRNA delivery and potent gene silencing	Dr A S Wong, School of Biological Sciences
Kew Chun	BSc(3)	2	Molecular cloning, tissue distribution and functional characterization of membrane estrogen receptor GPERI	Prof A O L Wong, School of Biological Sciences
Lai Tsz Pui*	BSc(3)	2	X-ray Crystallographic Study of Metal-Protein Interactions in Hen- Egg White Lysozyme Crystals	Dr S S Y Chui, Department of Chemistry
Lee Chi Hang*	BSc(3)	2	Targeting cargo localization by kinesin-1 using rapamycin-FKBP-FRB system	Dr J D Huang, Department of Biochemistry
Li Fangzhou	BSc(ActuarSc)(3)	1	A study on Google PageRank Algorithm - In association with Markov chain theory and its application on small network	Dr J J F Yao, Department of Statistics and Acturial Science
Li Tin Lok	BSc(3)	1	Studies in the synthesis of substituted BINOL Phosphoric Acids	Dr P Chiu, Department of Chemistry
Li Yu Ting Stephen	BSc(3)	1	Molecular Cloning and Characterization of Claudin-11 in Oryzias melastigma	Dr W Y Lui, School of Biological Sciences
Mok Yi Yun	BSc(3)	2	Photocatalytic Properties of Zinc Oxide Nanostructures	Dr A B Djuriši?, Department of Physics
Mung Kwan Long	BSc(3)	2	Characterisation of hypoxic stress response in Hela cells	Dr N S Wong, Department of Biochemistry
Parikh Disha Ragnesh	BSc(3)	1	Sequencing of Phylogenetic Analysis of 3A-B non-structural protein genes from Foot and Mouth Disease Virus Hong Kong Isolate 408	Prof F C Leung, School of Biological Sciences
Shen Yuanyuan*	BSc(3)	1	Is Cao the author? An application of statistics to redology	Prof S M S Lee, Department of Statistics and Actuarial Science
Tang Yunfan	BSc(ActuarSc)(3)	1	Polynomial approximation to option prices under regime switching	Prof H Yang, Department of Statistics and Acturial Science

Wong Che Fai Alex	BSc(3)	2	A new Gene Marker for Anaerobic Ammonium Oxidizing Bacteria	Dr J D Gu, School of Biological Sciences
Wong Wang William	BSc(3)	2	The study of intracellular transport mechanism powered by kinesin, KIF5B in MDCK Cell	Dr J D Huang, Department of Biochemistry
Wong Yat Sing	BSc(3)	2	Laser induced fluorescence spectroscopy of Platinum Boride	Prof A S C Cheung, Department of Chemistry
Wu Qihang	BSc(3)	1	Multiphase Deformation of the Chinese Altai: Implications for Tectonic Evolution of the Central Asian Orogenic Belt	Prof M Sun, Department of Earth Science
Wu Xiyuan*	BSc(3)	1	Analysis: a possible revision on China one-child policy	Prof S M S Lee, Department of Statistics and Actuarial Science
Xu Wanting	BSc(3)	1	A Hierarchical Model with Detection Limits for Regression Analyses of Antibody Response to Vaccine	Dr K F Lam, Department of Statistics and Acturial Science
Yu Chau Lam*	BSc(3)	2	Bose Einstein Condensate and its Quantum Phase Transition	Prof F Zhang, Department of Physics

# <u>2009-10</u>

Name	Curriculum	Year	Project Title	Supervisor
Au Tung Kin	BSc(3)	1	Studying the Attenuation Length of Linear alkyl benzene (LAB) for Calibration of Experiments in Underground Laboratory	Dr J C S Pun, Department of Physics
Chan Chiu Yin	BSc(3)	2	Coastal Carbonate System Dynamics under Changing Climate: A Hong Kong Perspective	Dr T Vengatesen, School of Biological Sciences
Choi Fung Sing	BSc(3)	1	Reconstruction of Tracks of Muons in Aberdeen Tunnel Experiment	Dr J C S Pun, Department of Physics
Chong Tsz Yat Ian*#	BSc(3)	2	FMDV Outbreak: Sequence Analysis of a New Strain	Professor F C Leung, School of Biological Sciences
Chu Tsz Long	BSc(3)	2	Studying the Early Senescence Progeroid Cells under Low Oxidative Stress	Dr Z Zhou, Department of Biochemistry
Fu Zhixuan	BSc(3)	2	Poverty and Inequality in Hong Kong	Professor T W K Fung, Department of Statistics & Actuarial Sciences
He Peng	BSc(3)	1	Determination of the Cleavage Sites on ADAM9 by MT1-MMP	Dr Z Zhou, Department of Biochemistry
Hu Wenqi	BSc(ActuarSc)(3)	2	Behavioral Optimal Insurance Design with Risk Loading	Professor H L Yang, Department of Statistics & Actuarial Sciences
Lam So Ngo	BSc(3)	2	The Role of Estrogen-related Receptor in Ovarian Carcinogenesis	Dr A S T Wong, School of Biological Sciences
Leung Chun Kwan	BSc(3)	1	Testing the Neutron Detector Event Reconstruction Program in the Aberdeen Tunnel Experiment	Dr J C S Pun, Department of Physics
Li Jie*	BSc(ActuarSc)(3)	2	Analyzing Daily Gold Prices with ARMAX-GARCH Models	Dr G D Li, Department of Statistics & Actuarial Sciences
Liu Fangzhou	BSc(3)	2	Photocatalytic Properties and Native Defects of Zinc Oxide Nanostructures	Dr A B Djuriši?, Department of Physics
Liu Junyan	BSc(3)	2	Genetic Engineering of the E.coli Global Transcription Factor FNR to Promote and Stabilize Its Dimerization	Dr A Yan, School of Biological Sciences

Lo Ho Yee	BSc(3)	1	Identification of Glucagon (GCG), Glucagon-like Peptides (GLP-1, GLP-2) and their Receptors in Inshore Hagfish (Eptatretus burger)	Professor B K C Chow, School of Biological Sciences
Ng Kwok Hin*	BSc(3)	2	Dimerization of Mouse Secretin and Vasopressin Receptors	Professor B K C Chow, School of Biological Sciences
Qi Wendi	BSc(3)	2	Simplest Model for Topological Insulator	Professor S Q Shen, Department of Physics
Sang Jiajun	BSc(3)	2	Estimate the Largest Eigenvalue of a Non-negative Matrix	Dr J T Chan, Department of Mathematics
Shi Yuan	BSc(3)	1	Combined Density-Functional and Electrodynamical Scheme for Time Domain Electronic Device Simulation	Professor G H Chen, Department of Chemistry
Sun Ka Hei Murphy	BSc(3)	1	Proteolytic Cleavage of DLL3 by A Disintegrin and Metalloprotease (ADAMS) Family	Dr Z Zhou, Department of Biochemistry
Tam Chin Pang	BSc(3)	2	Central Osmoregulatory Regions Mediating the Action of Secretin on Water Homeostasis during Cellular Dehydration	Professor B K C Chow, School of Biological Sciences
Tian You	BSc(ActuarSc)(3)	1	Applications of Likelihood Ratio Test to Preference Detection	Professor S M S Lee, Department of Statistics & Actuarial Sciences
Tsang Chi Ching	BSc(3)	1	Closing the Gaps of the Scaffolds of Burkholderia caribensis MBA4	Dr J S H Tsang, School of Biological Sciences
Wong Chun Lung	BSc(3)	2	Exploring the Developmental Potential of induced Pluripotent Stem (iPs) Cells in the Developing Chick Embryo	Dr M C H Cheung, Department of Biochemistry
Wong Ho Yin Bosco	BSc(3)	2	Development of a Tool to Study the Virulence of Samonella Typhi	Dr J D Huang, Department of Biochemistry
Yip Ka Ho Raymond*	BSc(3)	2	Studying the Role of Extracellular Matrix Niche of Stem Cells during Stem Cell Repopulation in Planarian	Dr D Chan, Department of Biochemistry
Zhang Jianqiao	BSc(3)	2	Computer Simulation of graphene-nanoribbon-based Electronic Devices	Professor G H Chen, Department of Chemistry
Zheng Yao*	BSc(ActuarSc)(3)	1	Health Care Costs of Five Types of Cancer for Elderly Americans: The Patient Perspective	Dr L F K Ng, Department of Statistics & Actuarial Sciences
Zhou Wanqing	BSc(3)	2	Development of SSR Markers for Rhodomyrtus tomentosa	Dr M Sun, School of Biological Sciences

#### <u>2008-09</u>

Name	Curriculum	Year	Project Title	Supervisor
Au Wing Man	BSc(3)	1	The Anti-inflammatory Effect of Danshen and Yun- zhi	Dr J M F Wan, School of Biological Sciences
Chan Ka Ho	BSc(3)	2	Studying the H I Radio Signal of the Sun and the Sky with HKU	Dr J C S Pun, Department of Physics
			Small Radio telescope	
Chi Chengzhan	BSc(3)	2	Some Experiments with Volatility Modeling	Professor W K Li, Department of Statistics &
				Actuarial Sciences
Chu Chun Kit	BSc(3)	2	Sulfonylated Dipolarophiles in the Carbene Cyclization	Dr P Chiu, Department of Chemistry
			Cycloaddition Cascade Reaction	
Dong Xiaoou	BSc(3)	2	Analysis of Functional Regions of Junctional Adhesion Molecule-A	Dr W Y Lui, School of Biological Sciences
			(JAM-A) Promoter	

Fu Zhong Zheng	BSc(3)	1	The Physical Properties of the mixture of Polyethylene Glycol and Self-Assembling Peptide	Dr R G Ellis-Behjnke, Department of Anatomy
Guo Cheng	BSc(ActuarSc)(3)	2	Regime-Switching Lognormal Model and Option Pricing	Professor H L Yang, Department of Statistics & Actuarial Sciences
Jiang Qinqin	BSc(3)	1	Expression of Hemagglutinin on the External Surface of a Live Salmonella Vaccine Vector	Dr J Huang, Department of Biochemistry
Lam Ho Yan	BSc(3)	1	Crude Extract and Active Traction of Artocarpus Heterophyllus as Autibrozoning Agent	Dr M Wang, School of Biological Sciences
Lam Pui Ying	BSc(3)	1	Function Characterization of Flavonoid Genes in Rice	Dr C S C Lo, School of Biological Sciences
Law Chun Hin	BSc(3)	2	Polymer supported N,N'-ditosylhydrazine in the synthesis of diazoacetates	Dr P H Toy, Department of Chemistry
Leung Yan Yu Christy*	BSc(3)	1	Studying the Night Sky Spectrum of Hong Kong	Dr J C S Pun, Department of Physics
Lo Kin Cheung	BSc(3)	2	Synthesis of Block Copolymers for Organic Photovoltaic Cells	Professor W K Chan, Department of Chemistry
Qi Yichen	BSc(3)	2	Shortest Superstring Problem	Dr W Zang, Department of Mathematics
Ren Yi	BSc(3)	2	Substrate Preference by Barnacle Larvae in C02 - Acidified Seawater	Dr T Vengatesen, School of Biological Sciences
So Hon Fai*	BSc(3)	2	Molecular Cloning and Functional Characterization of Pituitary Adenylate Cyclase-Activating Polypeptide Type 1 Receptor In Sturgeon Acipenser Schrenckii	Professor B K C Chow, School of Biological Sciences
Song Mengqiong*	BSc(ActuarSc)(3)	2	Study of Hong Kong Mandatory Provident Fund Fees and Expenses	Professor T W K Fung, Department of Statistics & Actuarial Sciences
Sun Liang	BSc(3)	2	Building a Markov Chain Model for Default Risk in a Network of Sectors	Dr W K Ching, Department of Mathematics
To Kit Yan	BSc(3)	2	Characterization of the Nuclear Localization Signal of the Human p70 S6 kinase	Dr A S T Wong, School of Biological Sciences
Wang Yang	BSc(ActuarSc)(3)	2	The Digits of the Financial Crisis	Dr K C Cheung, Department of Statistics & Actuarial Sciences
Wu Mong Sin	BSc(3)	2	Wu MSC Plotting and Analysis of Survey Data from the Pos Selim Landslide	Professor A W Malone, Department of Earth Sciences
Zhong Xing Xin*	BSc(3)	1	Eigenface and its Application in Face Recognition	Dr N K Tsing, Department of Mathematics
Zhu Yuanyuan*	BSc(3)	2	Modeling for Rank Data with Ties	Dr P L H Yu, Department of Statistics & Actuarial Sciences

Name	Curriculum	Year	Project Title	Supervisor
Chan Man Lok	BSc(3)	2	Secretin and cystic fibrosis transmembrane conductance regulator	Professor B K C Chow, School of Biological Sciences
			(CFTR) in kidney	
Ip Chun Him	BSc(3)	2	Development of Carriers for Drug Delivery to Airways of a Rat	Professor D K Y Shum, Department of Biochemistry
			Model of Lung Inflammation	
Kong Ka Yiu*	BSc(3)	1	Role of Yeast Peroxiredoxins Prx1p in Anti-oxidant Defense	Dr D Jin, Department of Biochemistry

Lam Yan Ting*	BSc(3)	2	Information and Entropy	Dr H F Chau, Department of Physics
Leung Yu Lut	BSc(3)	2	Synthesis, Photophysics and Electrochemistry of Luminescent Trinuclear Copper(I) Alkynyl Complexes With Carbazole Moieties	Professor V W W Yam, Department of Chemistry
Ma Wei	BSc(3)	2	Testing a method for labeling chromosomal coding DNA sequences (CDSs) with fluorescent protein genes in E. coli	Dr J D Huang, Department of Biochemistry
Ng Cheuk Kwong	BSc(3)	2	Study on Richardsonlucy Deconvoluted Positron Annihilation Coincidence Doppler Broadening Spectra	Professor C D Beling, Department of Physics
Ning Jia	BSc(3)	2	Identification of Campylobacter jejuni in a local poultry farm with study of transmission route	Professor F C C Leung, School of Biological Sciences
Poon Ka Ming Gavin*#	BSc(3)	2	Junctional Adhesion Molecule-C, a cell junction molecule in the testis, is down-regulated by TNFα and IFN-γ	Professor W W M Lee, School of Biological Sciences
So Hon Fai*	BSc(3)	1	Molecular cloning of Pituitary Adenylate Cyclase-Activating Polypeptide Receptor in a phylogenetically ancient fish – Sturgeon	Professor B K C Chow, School of Biological Sciences
Wang Nuo	BSc(3)	1	The effect of oxidative stress on the activity of Gadd34 gene promoter in mammalian cell	Dr N S Wong, Department of Biochemistry
Wang Xiao	BSc(3)	2	Complete Sequence of plasmid pMP1 from the marine environmental Vibrio vulnificus	Dr J D Gu, School of Biological Sciences
Wu SiQi*	BSc(3)	1	Pricing Equity-linked Products with American-type Option	Professor H L Yang, Department of Statistics & Actuarial Sciences
Yu Hoi Fung*	BSc(3)	2	A Study of Glitch Phenomenon in Neutron Stars	Professor K S Cheng, Department of Physics
Zhao Yue	BSc(3)	2	Opportunity or Fantasy - a Student's Investigation in an Earthquake Precursor Theory	Professor J C Aitchison, Department of Earth Sciences