Participants of Overseas Research Fellowship (ORF) Scheme

*Excellence in Poster Presentation

#Best Presenter

2024-25

Name	Curriculum	Year	Project Title	Supervisor
Chan Cheong Ming	BSc&MRes (4)	3	Machine learning methods in designing antimicrobial peptides	Dr Jarvist Moore Frost, Department of Chemistry, Imperial College London
Chen Jiabei	BSc (4)	2	Engineering DNA Origami Nanopores with Nucleoporins for Selective Protein Transport in Cellular Membrane Systems	Dr Hongying Shen, Department of Cellular and Molecular Physiology, Yale School of Medicine
Feng Yuxin	BSc (4)	2	Functional analysis for Octopus Arm Ganglia	Prof Xitong Liang, School of Life Sciences, Peking University
Fung Chiu Wah	BSc&MRes (4)	4	Alfvénic Power Generation and Dissipation in Geospace	Prof Lotko William, Thayer School of Engineering, Dartmouth College
Gong Rufan	BSc (4)	3	Exploration of Photocatalytic Radical Approaches to Substituted Oxetanes and Azetidines	Prof James Bull, Department of Chemistry, Imperial College London
Gu Yawen	BSc&MRes (4)	2	Investigation of the Role of Asparagine in Modulating T cells and NK cells	Prof Jiajun Fan, Department of Biological Medicines & Shanghai Engineering Research Center of Immunotherapeutics, Fudan University
Guo Yirong	BSc&MRes (4)	3	Phenological shift in overwintering disaggregation of western monarch butterfly	Prof Louie H. Yang, Department of Entomology and Nematology, University of California, Davis
Lam To Hing	BSc (4)	4	Bayesian Uncertainty Quantification for Lipid Force Field Parameter Optimization	Prof Rana Ashkar, Department of Physics, Virginia Polytechnic Institute and State University
Lyu Xinke	BSc (4)	3	mRNA-protein aggregation reduces fluctuations in a system with bursty transcription	Prof Marcus Roper, Department of Mathematics and Computational Medicine, University of California, Los Angeles
Samosiuk Arina	BSc (4)	2	Communal QUBO: A Quantum Computing Approach to NP-Hard Optimization Problems	Prof Liang-You Peng, School of Physics, Peking University
Shen Kaizhe	BSc (4)	3	Dualities of Lie Superalgebras	Prof Vera Serganova, Department of Mathematics, University of California, Berkeley
Wong Annabella Chun	BSc (4)	3	A comparison of phenotypic and molecular methods for detection and differentiation of Candida albicans and Candida dubliniensis	Dr Jasmine Ono, School of Life Sciences, The University of Nottingham
Wong Hoi Yat*	BSc (4)	3	Optimal Switching via Randomized Formulation: A Numerical Approach	Prof Haoyang Cao, Department of Applied Mathematics and Statistics, Johns Hopkins University
Xie Ruiyang	BSc&MRes (4)	3	ATLAS Anomaly Trigger Calibration	Dr Julia Gonski, SLAC National Accelerator, CERN
Xiong Hanyi	BASc(AppliedAI) (4)	2	Towards a Unified Framework for Multimodal Geospatial Intelligence: Augmenting Image Encoder Performance	Dr Wu Meiliu, School of Geographical & Earth Sciences, University of Glasgow

Zhou Yuxuan	BSc (4)	3	Sustainable Jet A-1 Aviation Fuel via Metathesis Optimisation	Prof George Britovsek, Department of Chemistry, Imperial College London
Zu Ziqing	BSc&MRes (4)	2	Behavioural Decision-Making in Multi-Face Categorization	Dr Gouki Okazawa, Institute of Neuroscience, Center for Excellence in Brain Science and Intelligence Technology, Chinese Academy of Sciences

2023-24

Name	Curriculum	Year	Project Title	Supervisor
Fong Eugenia King Hin	BSc (4)	3	The BRCT Domain of BRCA1: Mapping Downstream Protein Networks for DNA Repair	Dr Xu Dongyi, School of Life Sciences, Peking University
Ho Sin Yiu	BSc (4)	3	Investigating The Effect of Stiffness on Embryonic Growth at a Cellular Level	Dr Fengzhu Xiong, Wellcome/Cancer Research UK Gurdon Institute, University of Cambridge
Ke Wenjun	BSc (4)	2	Quantum Simulation of Spin Systems on Ring Trap	Prof Hartmut Haeffner, Department of Physics, University of California, Berkeley
Kesici Aybala Nisa#	BSc (4)	3	Effect of Different Pyrrole-Imidazole Polyamides as Gene Switches on the Human Mesenchymal Stem Cell Differentiation into Chondrocytes	Prof Ganesh Pandian Namasivayam, Institute for Integrated Cell-Material Sciences (WPI-iCeMS), Kyoto University
Kim Jeongwoo	BSc (4)	3	Deuteration of Triazoles Using an Exotic and Efficient Copper Complex as a Catalyst	Dr Silvia Diez-Gonzalez, Department of Chemistry, Imperial College London
Lewis Rommulus Francis*	BSc (4)	3	A New Approach to Supernova Standardization using the Si II Line Velocity	Dr Suhail Dhawan, Kavli Institute for Cosmology, University of Cambridge
Liu Anqi	BSc (4)	3	Exploring High-Activity Promoters through Python-assisted Synthetic Biology Approach	Dr Lin Yihan, Center for Quantitative Biology, Peking University
Lu Yudi	BSc (4)	3	Identification of Viable Binding Sites on Protein Degradation Effectors Through Site-Specific Ligand Incorporation-Induced Proximity (Slip) and Covalent Protac Discovery	Prof Edward Tate, Department of Chemistry, Imperial College London
Or King Long*	BSc (4)	3	Copper-Catalysed Electrochemical Transient C–H Functionalisation	Dr James A Bull, Department of Chemistry, Imperial College London
Qiao Jiamu	BSc (4)	3	Predicting RNA-Binding Protein (RBP) Binding Sites Using RNA Sequence and RBP Structure	Prof Gene Yeo, Department of Cellular and Molecular Medicine, Sanford Consortium for Regenerative Medicine, University of California, San Diego
Tsang Hin Lam	BSc&MRes (4)	2	Re-shaping Gateways for Selective Recycling of Valuable Chemical Compounds and for Microbial Cell Factories	Prof Per Amstrup Pedersen, Department of Biology, University of Copenhagen
Wang Keran	BSc (4)	3	Use Large Language Models for Content Moderation	Dr Koustuv Saha, Department of Computer Science, University of Illinois at Urbana-Champaign
Wong Yat Long	BSc&MRes (4)	3	Exploratory Analysis of All-Photonic Quantum Repeaters With Realistic Detectors	Prof Lo Hoi-Kwong, ECE and Physics, University of Toronto

2022-23

Name	Curriculum	Year	Project Title	Supervisor
Chan Chung Sang Morris*	BSc (4)	3	Spectral Characterization of Holocene Volcanic Ash and Aeolian Deposits in the North American Cordillera, Canada	Dr Mitch D'Arcy, Department of Earth, Ocean and Atmospheric Sciences, The University of British Columbia
Chau Tim Lok	BSc (4)	3	Implementation of Charge Exchange Processes in Geant4	Prof Vladimir Ivantchenko, The European Organization for Nuclear Research
Lam Wai Leung Alvin	BSc (4)	3	Fluorescence Spectroscopy to Characterize Biomolecules that Would Affect Protein Aggregation	Dr Francesco A. Aprile, Department of Chemistry, Imperial College London
Law Ho Wai	BSc (4)	3	Simulation and Computation of Key Rates of Quantum Communication	Prof Lo Hoi Kwong, Department of Physics, University of Toronto
Leung Ho Chi	BSc (4)	3	Defluorosulfonylative Coupling of Azetidine Sulfonyl Fluorides	Dr James A. Bull, Department of Chemistry, Imperial College London
Liu Jinhui	BSc (4)	2	Characterizing the Functional Gene Signatures of Taxonomic Patterns Associated with Healthy Aging in the Human Gut	Dr Sean Gibbons, Institute for Systems Biology
Long Feifei	BSc (4)	3	Heavy Metal Ions Detection Using Aptamer-binding Microfluidic Chip	Prof Yen Wen Lu, Biomechatronics Engineering Department, National Taiwan University
Lyu Haoqi	BSc(ActuarSc) (4)	3	Application of Jump-Diffusion Model in Volatile Financial Asset and Social Media Data: A Case Study of Bitcoin	Prof Xiaohu Yang, College of Computer Science & Technology, Zhejiang University
Reese Robert Miles Ryan*	BSc (4)	3	A Streamlined Method to Compute and Visualise Markov Communities in Biomolecules	Prof Sophia Yaliraki, Department of Chemistry, Imperial College London
Sy Chun Wang	BSc (4)	3	Rnai Screening in Erebosis-Committing Cells to Discover/Explore Genes Responsible for Erebosis	Dr Sa Kan Yoo, Center for Biosystems Dynamics Research, RIKEN
Wu Yonglin	BSc (4)	3	The Assembly Pathway of a Conserved Kinase-kinesin Complex in Regulating Motile Cilia Function	Prof Chi-chung Hui, The Hospital for Sick Chidren & Faculty of Medicine at the University of Toronto & Peter Gilgan Centre for Research and Learning
Zhou Laiyin	BSc (4)	3	Assessment of Drought Tolerance in Soybean Using Remote Sensing Data	Dr Shichao Jin, Crop Phenomics Interdisciplinary Research Center, Nanjing Agricultural University

2021-22

Name	Curriculum	Year	Project Title	Supervisor
Heo Chan	BSc (4)	3	Search for exotic phenomena in odd-mass heavy nuclei within the deformed relativistic continuum theory	Dr Shuangquan Zhang, School of Physics, Peking University
Law Hoi Ting	BSc (4)	3	Semiparametric Estimation of Non-linear Time-varying Effects of Rotavirus Vaccines	Prof Yin Bun Cheung, Centre for Quantitative Medicine, Duke-NUS Medical School
Nie Peiqi	BSc (4)	3	A Study on Fourier Restriction Problem in Harmonic Analysis	Prof Ruixiang Zhang, Department of Mathematics, University of California, Berkeley
Peng Shixuan	BSc (4)	2	Design And Synthesis Of Cationic Nile Blue Fluorescent Probe And Its Application In Single Molecule Localization Microscopy Of Mitochondria	Prof Yilong Zou, School of Life Sciences, Westlake University, Hangzhou

Pillai Vismaya Rajeev	BSc (4)	3	Finding QPEs with Chandra	Dr Katheryn Decker French, Astronomy, University of Illinois Urbana-Champaign
Poon Pak Shing Billy	BSc (4)	3	An efficient synthesis of the Apremilast via dynamic kinetic resolution	Pro King Kuok (Mimi) Hii, Department of Chemistry, Imperial College London
Rogatch Michael	BSc (4)	2	Synthesis and deposition of low-dimensional perovskite-like metal halides for radioluminescence	Prof Maksym Kovalenko, Chemistry and Applied Biosciences, ETH Zurich
Wan Bowen	BSc (4)	3	Functions of mitochondrial translational regulators in ATP synthase subunit expression	Prof L. Stirling Churchman, Department of Genetics, Harvard Medical School
Wang Junshi	BSc (4)	2	Randomization Test Under Potential Outcome Framework	Dr Qingyuan Zhao, Department of Pure Mathematics and Mathematical Statistics, University of Cambridge
Yang Jinghan	BSc (4)	3	How Many and Which Training Points Would Need to Be Removed to Flip This Prediction?	Dr Wallace Bryon, Khoury College of Computer Sciences, Northeastern University
Zhang Jiayi*	BSc (4)	3	Diophantine Problems With Prime Variables And Unequal Powers On Goldbach's Problem and Vinogradov's Theorem	Prof Weiping Li, Department of Mathematics and Information Sciences, Henan University of Economics and Law
Zhang Qidi	BSc (4)	2	Low Temperature Performances of Lithium Ion Batteries	Dr Yanbao Fu, Energy Storage and Distributed Resources Division, Lawrence Berkeley National Laboratory
Zou Xiang	BSc (4)	3	Improving ttH Detection in ATLAS Experiment Using Machine Learning Techniques	Prof Simonetta Gentile and Dr Nello Bruscino, CERN, ATLAS experiment

2020-21

Name	Curriculum	Year	Project Title	Supervisor
Cheung So Yee	BSc (4)	3	Molecular complexity in the Class 0 protostellar binary IRAS 16293-2422	Prof Ewine Fleur van Dishoeck, Leiden Observatory, Faculty of Science, Leiden University
Liu Suying	BSc (4)	3	Quantum Algorithm for Constrained Optimization	Dr Xiaodi Wu, Department of Computer Science and Institute for Advanced Computer Studies, University of Maryland

2019-20

Name	Curriculum	Year	Project Title	Supervisor
Kong Siyu	BSc (4)	3	Mechanics and Manipulation of Active Structures	Prof Andy Borum, Department of Mathematics, Cornell University
Oh Jieun	BSc (4)	3	The influence of sex on mutational processes in pediatric cancers	Dr Paul C. Boutros, Department of Human Genetics, The University of California, Los Angeles

2018-19

Name	Curriculum	Year	Project Title	Supervisor
Chan Kai Hei	BSc (4)	2	HERA power spectrum analysis project	Dr Philip Bull, School of Physics and Astronomy, Queen Mary University of London
Fu Yaoying*	BSc (4)	3	Distribution of colors in Gallai colorings	Prof Dezsõ Miklós, Budapest Semesters in Mathematics
Li Jiahui	BSc (4)	3	Active Water Droplet: A cascade of dynamic behaviors responding to AC electric field	Prof Thomas Russell, Material Sciences Division, Lawrence Berkeley National Laboratory
McLeod Wendy Finella Cabututan	BSc (4)	3	Evolutionary implications of intraspecific acoustic communication in Pomacanthidae	Dr Timothy C. Tricas, Department of Biology, University of Hawaii at Manoa
Ng Hin Ching	BSc (4)	3	Reappraisal of Late Triassic dinosaur fossils from Lesotho at the UCL Grant Museum of Zoology	Prof Paul Upchurch, Department of Earth Sciences, University College London
Tan Zhi Qing	BSc (4)	3	Liftestyle Management in Polycystic Ovary Syndrome (PCOS): Health Professional Systems Mapping	Prof Lisa Moran & Dr Siew Lim, Monash Centre for Health Research and Implementation, Monash University
Taranjit Singh	BSc (4)	3	Analysis of Microlensing events towards the Galactic Centre of Milky Way	Prof Philippe Jetzer, Department of Physics, University of Zurich
Tsang Kin Ming	BSc (4)	3	Quad fitter performance in identifying direction in SNO+	Dr Jeff Tseng, Department of Physics, The University of Oxford
Vu Ka Hei	BSc (4)	3	Optimising the DNA extraction process from the edible bird's nests	Dr Frank Rheindt, Department of Biological Science , National University of Singapore
Wang Rebecca Si-Ning*	BSc (4)	3	Green Roofs vs Ground-level Gardens: Bioacoustics Monitoring of Insect Visitation Rates in Leeds, England	Dr Christopher Hassall, School of Biology, University of Leeds
Wong Chin Leong*	BSc (4)	3	Assembly of interlocked molecules by dynamic combinatorial approach	Dr G. Dan Pantos, Department of Chemistry, University of Bath
Wong Hong Tsun#	BSc (4)	3	A Reconstruction Formalism of f(T) Modified Gravity to Probe the Dynamics of the Late-time Acceleration in the Universe	Prof Yi-Fu Cai, Department of Astronomy, University of Science and Technology of China
Xu Wan*	BSc (4)	3	Investigating the Expression of Microglia and Alzheimer's Disease Markers in IGFBPL1 KO Mice	Dr Dong Feng Chen, Department of Ophthalmology, Harvard Medical School
Yang Zening	BSc (4)	2	Investigation on Copper catalyzed Suzuki-Miyaura coupling: the effect of ligands and results	Dr Rob Davies, Department of Chemistry, Imperial College London
Yeung Tik Tsun	BSc (4)	3	Nuclear mass measurement by multi-reflection time-of-flight mass spectrograph (MRTOF-MS)	Dr Shunji Nishimura, Nishina Center for Accelerator-Based Science, RIKEN, Japan
Yin Kexin	BSc (4)	2	Hydrogenation of lignin models with Ru/C catalyst targeting hydrodemethoxylation products	Prof George Britovsek, Department of Chemistry, Imperial College London
Zhao Qingqing	BSc (4)	3	Computational Bounds for Nanophotonic Design	Prof Owen Miller, Department of Applied Physics, Yale University
Zhong Sophia Shek Wa	BSc (4)	3	Development of a NanoString nCounter Vantage 3D platform-based complementary diagnostic test for precision medicine in pediatric cancers	Dr Cynthia Hawkins, Department of Laboratory Medicine & Pathobiology, The Hospital for Sick Children

Zhou Tian-yi	BSc (4)	3	Tensor Methods in Statistics	Prof Ming Yuan, Department of Statistics , Columbia University

2017-18

Name	Curriculum	Year	Project Title	Supervisor
Cao Weihao	BSc(4)	3	Fabrication of magnetic tunneling junction and its theoretical interpretation	Dr Xiaodong Xu, Department of Physics, The University of Washington
Chan Kam Shan	BSc(4)	3	Investigating Epigenetic regulation of CD4 T cell differentiation and function	Prof Colby Zaph, Department of Biochemistry and Molecular Biology, Monash University
Chong Pooi Seong	BSc(4)	3	Energy Calibration for the SNO+ Detector	Prof Jeff Tseng, Department of Physics, The University of Oxford
Chung Suet Wah Sheena	BSc(4)	2	Investigating the Anthropogenic Threats at Staging Sites of Shorebirds Along the East Asian-Australasian Flyway	Prof Theunis Piersma, Department of Coastal Systems, Royal Netherlands Institute for Sea Research (NIOZ)
Fan Kwok Lung	BSc(4)	3	Using machine learning techniques for Gamma/Hadron separation in HAWC	Prof Jordan Goodman, Department of Physics, The University of Maryland
Ho Pok Man	BSc(4)	4	Who is the Mastermind — Host Microbiome VS Hologenome	Prof Allen G Rodrigo, Research School of Biology, The Australian National University
Hong Seungmin	BSc(4)	2	Photodynamic therapy using photosensitizer-encapsulated PEG-PLA block copolymer micelle	Dr Heebeom Koo, Department of Medical Lifescience, The Catholic University of Korea
Lai Lexiao	BSc(4)	3	Time-Dependent Surveillance-Evasion Game	Prof Alexander Vladimirsky, Department of Mathematics, Cornell University
Niu Xueyan*	BSc(4)	3	Mathieu's Differential Equation and Its Generalizations to the Sierpinski Gasket	Prof Robert S. Strichartz, Department of Mathematics, Cornell University
Peng Lianghui	BSc(4)	3	Automation of searching for two-dimensional crystals	Dr Ziliang Ye, Department of Physics and Astronomy, The University of British Columbia
Tang Jincheng	BSc(4)	3	Properties of Generating sets of finite groups	Prof Keith Dennis, Department of Mathematics, Cornell University
Tsang To	BSc(4)	3	Developing and testing small RNA therapeutics for treatment of cancer	Prof John J Rossi, Department of Molecular and Cellular Biology, Beckman Research Institute of the City of Hope
Yang Xinwu	BSc(4)	4	Lorentz Estimates for the Multi-linear Averages on Curves	Dr Betsy Stovall, Department of Mathematics, University of Wisconsin-Madison
Zhang Shaowu	BSc(4)	2	A Study on the Source of Meteorites by the Integration Method	Prof Jack Wisdom, Department of Earth, Atmospheric and Planetary Sciences, Massachusetts Institute of Technology

2016-17

Name	Curriculum	Year	Project Title	Supervisor
Chan Hoi Wing	BSc(4)	2	Reduction of GAT-3 activity in IP3R2 KO mice	Dr Qiang Chang, Department of Medical Genetics and Neurology, University of Waisman-Madison
Chan Tsz Chung	BSc(4)	4	Site faithfulness of shorebirds fuelling in China	Prof Theunis Piersma, Royal Netherlands Institute for Sea Research (NIOZ)
Chen Yuming	BSc(4)	3	Analysis on Hybrid Fractals	Prof Robert S Strichartz, Department of Mathematics, Cornell University
Gao Rui	BSc(4)	3	Genetically Encoded Dual-functional Photocrosslinker to Map Protein-protein Interactions	Prof Peng Chen, Department of Chemical Biology, Peking University
Gu Haotian	BSc(4)	3	Weyl Asymptotics and Spectral Analysis on Hybrid Fractals	Prof Robert S Strichartz, Department of Mathematics, Cornell University
Lee Shu-yu	BSc(4)	3	Examination of BDT performance with new variables in used for Higgs boson searching	Dr Junjie Zhu, Department of Physics, University of Michigan
Liang Lixing	BSc(4)	3	Tracking the Global Economy with a Dynamic General Equilibrium Model	Prof Samuel Kortum, Department of Economics, Yale University
Ng Ka Wai Patrick*	BSc(4)	3	Search for Heavy Higgs Bosons at ATLAS Using Boosted Decision Tree Discriminant Trained with Heavy Higgs Invariant Mass	Dr Junjie Zhu, Department of Physics, University of Michigan
Qian Yikun	BSc(4)	3	Bayesian methods for occupancy models in ecology	Dr Fang Liu, Department of Applied & Computational Mathematics & Statistics, University of Notre Dame
Sun Jiashuo	BSc(4)	3	Emotion Recognition Using Multimodal Deep Learning and Transfer Learning	Prof Bao-Liang Lu, Department of Computer Science and Engineering, Shanghai Jiao Tong University
Tang Tsz Yeung	BSc(4)	4	Geomorphology of collapse structures on Mars	Dr J. Bruce H. Shyu, PhD Caltech, Department of Geosciences, National Taiwan University
Wang Liuwei	BSc(4)	2	Changes in mRNA splicing in brain tissues of rhesus macaques exposed to inflammation in utero	Prof Daniel H. Geschwind, School of Medicine, The University of California, Los Angeles (UCLA)
Zhu Danlei	BSc(4)	3	Information Theoretic Approach to Reconstruct Neural Network Connectivity	Prof David Cai, Department of Mathematics and Neural Science, Courant Institution of Mathematical Sciences
Zhu Zhiyuan	BSc(4)	3	Study of The Dynamics and Excited-State Properties of Pt(II) Dimer via Ultrafast Spectroscopy	Prof Lin X. Chen, Department of Chemistry, Northwestern University

2015-16

Name	Curriculum	Year	Project Title	Supervisor
Dai Wei	BSc(4)	4	Using the More Air- and Water-stable Organozinc Reagents – Zinc Pivalates – in Negishi Cross-Coupling Reactions	Dr Julian Knight, School of Chemistry, Newcastle University
Ding Anyang	BSc(4)	2	Search for the heavy neutral Higgs bosons produced in association with bottom quarks and decaying into $t\bar{t}$ in pp collisions at $\sqrt{s}$ = 13 TeV with the ATLAS detector	Prof Aurelio Juste, Experimental Division, Institut de Fisica d'Altes Energies (IFAE)

Ho Julian Xi Wei	BSc(4)	4	Identification of short hairpin RNAs with highest knockdown efficiencies for target genes of X	Prof Patrick C H Hsieh, Institute of Biomedical Sciences, Academia Sinica
Li Shuangping*	BSc(4)	3	Analysis on Fractals - Restrictions and Sobolev Spaces on Fractals	Prof Robert S. Strichartz, Department of Mathematics, Cornell University
Ma Wai Sum	BSc(4)	3	The beak of the giant Chinese dinosaur Gigantoraptor erlianensis (Theropoda: Oviraptorosauria)	Prof Xu Xing, Department of Paleoichthyology and Paleoherpetology, Institute of Vertebrate Paleontology and Paleoanthropology, Chinese Academy of Sciences
Man Pui Hei Marcus*	BSc(4)	2	Medial prefrontal cortex stimulation enhances antidepressant and neuroplasticity effects in rat animal model	Dr Ajai Vyas, Department of Molecular and Cell Biology, Nanyang Technological University
Wong Thomas Hin Fung	BSc(4)	3	Synthesis of Complex, Polycyclic Structure via Himbert Cycloadditions	Prof Chris Vanderwal, Department of Chemistry, University of California, Irvine
Wong Wing Yan*	BSc(4)	3	Monte Carlo Event Generation of ttH→ttbb in 2-HDM for Heavy Higgs Search at the ATLAS Experiment at the LHC	Dr Junjie Zhu, Department of Physics, University of Michigan
Wu Kuang-yu	BSc(4)	3	Mixture properties of the Fokker-Planck equation	Dr Kung-Chien Wu, Department of Mathematics, National Cheng Kung University
Yau Hei Tung	BSc(4)	3	Synthesis and Photophysical study of bis(dipyrrinato) Zn(II) complex	Dr Fabio Cucinotta, School of Chemistry, Newcastle University
Yue Kun	BSc(4)	3	Investigation of Functional Connectivity of Brain Image under Resting State	Prof Jie Peng, Department of Statistics, University of California, Davis
Zhang Zhiqian	BSc(4)	3	Investigating the role of HERVH in pluripotency maintenance of human embryonic stem cells	Dr Lin He, Department of Molecular and Cell Biology, University of California, Berkeley

2014-15

Name	Curriculum	Year	Project Title	Supervisor
Chua Wing Ho	BSc(4)	3	Role of MAP4K3 towards mTOR pathway regulation	Prof Albert R La Spada, Department of Pediatrics, University of California, San Diego
Gallardo Gabriel Emmanuel Calulut*#	BSc(4)	3	Measuring electron charge misidentification rate for SUSY analysis at ATLAS using tag-and-probe	Prof Junjie Zhu, Department of Physics, University of Michigan
Liu Shengxuan	BSc(4)	2	Synthesis and Property Study of 2D Topological Insulator — (Bi1-xSbx)2Te3	Prof Xi Chen, Department of Physics, Tsinghua University
Liu Yangdongling	BSc(4)	3	Fabrication of Nanomaterials Incorporating Lanthanides Using Covalent Organic Frameworks as Templates	Prof John Arnold, Department of Chemistry, University of California, Berkeley; Dr Stefan Minasian, Chemical Sciences Division, Lawrence Berkeley National Laboratory
Peng Fengjiao	BSc(4)	3	Video Temporal Alignment Using Signal Synchronizing Methods - A Comparison between Dynamic Time Warping and Belief Propagation	Prof Frédo Durand, Department of Electrical Engineering and Computer Science, Massachusetts Institute of Technology
Shum Wing Yee Winnie	BSc(4)	3	Polymerization of phosphorescent tellurophenes for energy-efficient lighting	Prof Eric Rivard, Department of Chemistry, University of Alberta

Wang Qinan	BSc(4)	3	Chandra Observations of Eight Sources Discovered by INTEGRAL	Dr John Tomsick, Space Sciences Laboratory, UC Berkeley
Wang Zhongmin	BSc(4)	3	Shutting down human cytomegalovirus latent infection by use of CRISPR/Cas9 technology	Prof Fenyong Liu, School of Public Health, University of California Berkeley
Wen Boya	BSc(4)	3	k-Forms on Products of Graphs and Fractals	Prof Robert S. Strichartz, Department of Mathematics, Cornell University
Wong Yuk Lun	BSc(4)	3	The role of Sox9 in the inhibition of chondrocyte hypertrophy	Prof Rosa A. Serra, Department of Cell, Developmental and Integrative Biology, University of Alabama, Birmingham
Xiong Lingyun	BSc(4)	3	Characterization of oncofetal factor Sall4 in DNA damage response during hepatocellular carcinoma tumorigenesis and progression	Prof Yang Xu, Division of Biological Sciences, University of California, San Diego
Yang Luona*	BSc(3)	3	On the Convergence Analysis of Staleness Synchronous - Parallel Deterministic Gradient Method	Prof Eric Xing, Machine Learning Department, Carnegie Mellon University
Zhang Zhe	BSc(4)	3	Study of GATA6 Expression in Polarized Bone-Marrow-Derived Macrophages	Prof Ke Shuai, Department of Biological Chemistry, University of California, Los Angeles

2013-14

Name	Curriculum	Year	Project Title	Supervisor
Chan Ming Yan	BSc(3)	2	Quantifying diversity of aerosol populations across the US using long-term data from the aerodyne aerosol mass spectronmeter	Professor Nicole Riemer, University of Illinois at Urbana-Champaign
Lou Shing Bong	BSc(4)	2	Flow Chemistry as a Discovery Tool for the Generation/Translocation/Reaction of Diazo Compounds	Professor Steven V. Ley FRS, University of Cambridge
Wang Wenyuan*#	BSc(3)	2	Implementing Quantum Fingerprinting Protocol with Error Correction Codes Based on Random Toeplitz Matrices	Professor Hoi Kwong Lo, University of Toronto
Tsoi Yan Wing	BSc(4)	2	The process and components involved in the thickening of fruit juice	Dr Timothy Nicholson, The University of Queensland

2012-13

Name	Curriculum	Year	Project Title	Supervisor
Chan Saria Sze Wai	BSc(3)	2	Hypoxia and Thrombosis-associated Cancer Progression	Prof Randall Johnson, University of Cambridge
Lee Jonghan Peter*	BSc(3)	2	Heparin Mimicking Polymers for Stabilizing basic Fibroblast Growth Factor	Prof Heather D. Maynard, University of California
Liang Ruochen*	BSc(3)	2	New Scheme for Numerical Solution to BVP	Prof John Strain, University of California
Luo Jie	BSc(3)	2	Photometric Observation of PSR J1311-3430 With BVIT	Prof Roger W. Romani, Stanford University
Yang Shihao*	BSc(ActuarSc)(3)	2	Detection of Asset Bubbles in Real Time: Some Empirical Results	Prof Philip E Protter, Columbia University
Yuan Huaiping	BSc(3)	2	Protein Kinase B mediated effect of amino acid deprivation on de novo purine synthesis	Prof Gerry R. Boss, University of California, San Diego

2011-12

Name	Curriculum	Year	Project Title	Supervisor
Fan Lok Yan	BSc(3)	2	Molecular characterization of staphylococcus aureus isolates from Guangdong	Dr K Zhang, University of Calgary
Gao Wenyu	BSc(3)	2	Application of pricing exchange options by data from Apple and Microsoft companies	Prof S Rao Jammalamadaka, University of California, Santa Barbara
Lam Chi Chung	BSc(3)	2	Discovery of puzzling structures in a giant elliptical galaxy	Dr Y Ohyama, Institute of Astronomy and Astrophysics, Academia Sinica (ASIAA)
Li Shengchao	BSc(3)	2	Slow control system development for barium-tagging in xenon	Prof L Yang, University of Illinois
Lin Tsen-yuan	BSc(3)	2	Resolving properties of synchrotron relativistic jet with x-ray polarization signature	Prof K W Wu, University College London
Regan Charistine	BSc(3)	1	Development of a formula for a body fat reducing functional food	Dr C F Chau, National Chung Hsing University
Song Yifan	BSc(3)	2	Tracker-based seeding of photon conversions in CMS detector	Dr Giacomo Sguazzoni, CERN- European Organization for Nuclear Research
Tang Yunfan	BSc(ActuarSc)(3)	2	GPGPU correlation analysis of massive Hi-C data	Dr Neva Cherniavsky, Broad Institute of MIT and Harvard
Xu Wanting	BSc(3)	2	Differential expression analysis for a mouse p53KO microarray dataset	Prof T P Speed, University of California, Kerkeley

2010-11

Name	Curriculum	Year	Project Title	Supervisor
He Peng	BSc(3)	2	Explore the functions of histone modifications and methylations	Prof S E Jacobsen, University of California, Los Angeles
Leung Man Him	BSc(3)	2	Investigation of thiamine biosynthesis in Salmonella enterica	Dr Diana Down, University of Wisconsin-Madison
Shi Yuan	BSc(3)	2	Principal Modes of Variability in the Tropics from 9-Year AMSU Data	Prof Y L Yung, California Institute of Technology
Tian You	BSc(ActuarSc)(3)	2	MST-Clustering method for ratemaking	Dr M Ludkovski, University of California, Santa Barbara
Tsang Man Yin	BSc(3)	2	Design, construction, and testing a new supphur hexafluoride (SF6) injector using a membrane contactor	Prof J F Clark, University of California, Santa Barbara
Tsang Timothy Wing-kai	BSc(3)	2	Identification of shrimp tropomyosin (sT)mimotope sequence used in mimotope ?DNA anaphylaxis vaccine for shrimp allergy	Dr P S C Leung, University of California, Davis

2009-10

Name	Curriculum	Year	Project Title	Supervisor
Guo Jun	BSc(ActuarSc)(3)	2	Parameter Estimation of a Statistical Criminal Behavior Model	Professor George Mohler, Department of Mathematics, University of California, Los Angeles
Li Xinyu*	BSc(3)	1	Large-Scale Cosmic Magnetic Field	Professor Kinwah Wu, Mullard Space Science Laboratory, University College London
Jiang Qinqin	BSc(3)	2	Quantification of Autorepression System in E.coli system	Professor Terence Hwa, Department of Physics, Physics & Center for Theoretical Biological Physics, University of California, San Diego

Fu Zhongzheng	BSc(3)	2	Voltage Clamp Fluorometry Study of Human Proton Channel	Professor Ehud Isacoff, Department of Molecular and Cell Biology, University of California, Berkeley
Zhong Xingxin	BSc(3)	2	Geometric Realization of Hurwitz Group	Professor Robert E Greene, Department of Mathematics, University of California, Los Angeles
You Can	BSc(3)	2	Study of Level 1 Trigger Upgrade	Professor Albert De Roeck, Physics Department, The European Organization for Nuclear Research

2008-09

Name	Curriculum	Year	Project Title	Supervisor
Wu Siqi	BSc(3)	1	Threshold Stochastic Regression, with Application to Modeling Reservoir Effects on River Nitrogen-Nitrate	Professor K S Chan, Department of Statistics and Actuarial Science Univeristy of Iowa
Lin Kanhui	BSc(3)	2	The Effect of Particle Size and Fluids Viscosity on Particle-Laden Thin-Film Flows	Professor N Murisic, Department of Mathematics Univeristy of California, Los Angeles
Dong Sijia	BSc(3)	2	Density Functional Theory Study of Group 9 Metallocorroles	Professor H B Gray, Department of Chemistry California Institute of Technology
Chan Yuet Ngo	BSc(3)	2	Cell Adhesion and actin dynamics: The Role of Arp2/3 in Spermatogenesis	Professor C Y Cheng, Center for Biomedical Research Population Council, Rockefeller University
Wong Cheuk Ki Sybil*#	BSc(3)	2	Mapping of Binding Sites for eIF4E in the Tumour Suppressor Protein LIMD1	Dr T V Sharp, School of Biomedical Science University of Nottingham
Cao Chang	BSc(3)	3	Comparison of Microbial Quality and Bioactive Constituents in Green Bell Peppers (Capsicum annuum L. cv “Goldmine”) Produced Using Organic and Conventional Agricultural Practices.	Dr J Sheng, College of Food Science and Nutritional Engineering China Agricultural University

2007-08

Name	Curriculum	Year	Project Title	Supervisor
Cao Chang	BSc(3)	2	Effects of Spirulina and Spinach Supplementation on Serum Carotenoid Levels in Chinese Adults	Dr G Tang, Friedman School of Nutrition Science and Policy Tufts University, USA
Chu Chun Kit	BSc(3)	1	Investigation of Alkenylboration of α, β-Unsaturated Compounds Catalyzed by 3, 3′-disubstitutedbinaphthols	Dr J M Chong, Department of Chemistry University of Waterloo, Canada
Lee Kai Yan	BSc(3)	2	Polarized Radiative Transfer in Active Galactic Nuclei (AGN) and Intergalactic Environment	Dr K Wu, Mullard Space Science Laboratory University College London, UK
Xia Xianfang	BSc(3)	2	Metabolic control in E. coli by quantitative system biology approach	Professor T Hwa, Department of Physics University of California, San Diego
Xie Zhaoqian	BSc(3)	2	Bioinformatics of the RNA with Molecular Dynamics Simulations	Professor S Doniach, Department of Physics Stanford University, USA
Qiu Zhen	BSc(3)	2	Innovation in Risk Management: Hedge the Volatility Risk	Professor C Bernard, Department of Statistics and Actuarial Science University of Waterloo, Canada