# Participants of Undergraduate Research Fellowship (URFP) Programme

\*Excellence in Poster Presentation #Best Presenter

| Name                 | Curriculum        | Year     | Project Title of Project/ Directed Studies Course        | Supervisor of Project/ Directed            | Project Title of Summer Research Internship            | Internship Supervisor                 |
|----------------------|-------------------|----------|--|--|--|---------------------------------------|
|                      |                   |          |  | Studies Course                             |  |                                       |
| CHIU Pak Wing        | BSc (4)           | 4        | The transcriptional regulation of Irx3 and Irx5 in mouse | Prof Mai Har Sham, School of Biomedical    |  |                                       |
|                      |                   |          | inner ear  | Sciences                                   |  |                                       |
| Kong Wang Yeuk       | BSc (4)           | 4        | Asymmetric (4+3) cycloaddition of epoxy enol silane with | Prof Pauline Chiu, Department of Chemistry | Asymmetric (4+3) cycloaddition of epoxy enol silane    | Prof Pauline Chiu, Department of      |
|                      |                   |          | dienes catalyzed by Chiral Binaphthyl Disulfonic Acid    |  | with dienes catalyzed by Chiral Binaphthyl Disulfonic  | Chemistry                             |
|                      |                   |          |  |  | Acid and Derivatives                                   | -                                     |
| LAM Si Yu            | BSc (4)           | 4        | Determination of Breeding Gounds of the Siberian         | Dr Timothy C Bonebrake & Dr Caroline       |  |                                       |
|                      |                   |          | Rubythroat and Yellow-Breasted Buntings with Stable      | Dingle, School of Biological Sciences      |  |                                       |
|                      |                   |          | Isotopes and Geolocator Tracking                         |  |  |                                       |
| LIANG Shuang         | BSc (4)           | 4        | Algebraic and analytic methods on complex algebraic      | Prof Ngai Ming Mok, Department of          |  |                                       |
|                      |                   |          | geometry   | Mathematics                                |  |                                       |
| SUN Xianlin          | BSc(ActuarSc) (4) | 4        | Bootstrap post-model selection inference under a general | Prof Stephen M S Lee, Department of        |  |                                       |
|                      |                   |          | framework  | Statistics & Actuarial Science             |  |                                       |
| Tang Xun             | BSc (4)           | 3        | Adaptive numerical methods for long-time integration and | Dr Zhiwen Zhang, Department of             | Demonstration of generic Quantum controllability under | Prof Lin Lin, Department of           |
|                      |                   |          | model reduction with applications in computing effective | Mathematics                                | QAOA setting   | Mathematics, University of California |
|                      |                   |          | diffusivity and Anderson localization                    |  |  | Berkeley                              |
| TSANG Kin Ming       | BSc (4)           | 4        | Representations of integers by mixed sums of weighted m- | Dr Benjamin R Kane, Department of          |  |                                       |
| TOTAL TO TAIN ITTING | BSC (4)           | 7        | gonal numbers and squares                                | Mathematics                                |  |                                       |
| Wong Yin Pok         | BSc (4)           | 4        | Synthesis of Luminescent Metal Complexes and their       | Prof Vivian W W Yam, Department of         | Coordination chemistry and photophysical               | Dr Rebecca Abergel, Department of     |
|                      | (.)               | '        | Functional Studies for Sensing                           | Chemistry                                  | characterization of lanthanide complexes               | Nuclear Engineering, University of    |
|                      |                   |          | Tunetional States for Sensing                            | Chemistry                                  | 1  |                                       |
|                      |                   |          |  |  |  | California Berkeley                   |
| XU Hongting          | BSc (4)           | 4        | The Role of ISM1 in hematopoiesis                        | Prof Zhongjun Zhou, School of Biomedical   |  |                                       |
|                      | 250 (1)           | <u> </u> | The Pole of Ion'l in hematopolesis                       | Sciences                                   |  |                                       |
| XU Wan               | BSc (4)           | 4        | Elucidating the Role of SOX10 in Neuroblastoma           | Dr Martin C H Cheung, School of            |  |                                       |
|                      |                   |          |  | Biomedical Sciences                        |  |                                       |

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

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

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| Ho Julian Xi Wei     | BSc(4)     | 5    | Role of miRNA-1 and -499 in maturation of human embryonic stem cell-derived cardiomyocytes in 3D tissue culture | Dr Wendy W Y Wong & Dr Kwok Ming<br>Yao, School of Biomedical Sciences |  |   |
| Ni Haozheng          | BSc(4)     | 4    |   | Dr Guodong Li, Department of Statistics & Actuarial Science            |  |   |
| Rabbani Mashiat*#    | BSc(4)     | 4    | Evaluating Nucleoside Analogs as Potential Anti-Cancer Drugs  | Prof Alice S T Wong, School of Biological<br>Sciences                  | using nucleoside analogues and nanotechnology  | Prof Peng Ling, Department of<br>Chemical Biology, Centre National de<br>la Recherche Scientifique (CNRS) |
| Tse Yuen Cheong      | BSc(4)     | 4    | Design and Synthesis of Luminescent Metal Complexes   | Prof Vivian W W Yam, Department of<br>Chemistry                        | Design, Synthesis and Photophysical Study of<br>Cyclometallated N^C^N Alkynylplatinum(II)<br>Complexes | Prof Vivian W W Yam, Department of Chemistry  |
| Wong Thomas Hin Fung | BSc(4)     | 4    | •   | Prof Chi Ming Che, Department of<br>Chemistry                          |  |   |
| Zhang Zhiqian        | BSc(4)     | 4    | CRISPR/Cas9 mediated isolation and genomic cloning of EBV strains from clinical EBV-infected cell samples       | Prof Dong-Yan Jin, School of Biomedical<br>Sciences                    |  |   |

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

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

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

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|                  |                  |      |  | Studies Course                            |  |                                      |
| Chai Wai Yeeng   | BSc(3)           | 2    | Do endocrine discrupting chemicals affect cancer?        | Dr A S T Wong, School of Biological       |  |                                      |
|                  |                  |      |  | Sciences                                  |  |                                      |
| Choi Chek Hin    | BSc(ActuarSc)(3) | 3    | Introduction to the gerber-shiu function in ruin theory  | Dr E K C Cheung, Department of Statistics | Optimal portfolio with correlation constraints     | Dr C Bernard, University of Waterloo |
|                  |                  |      |  | & Actuarial Science                       |  |                                      |
| Chow Tai Cheong* | BSc(3)           | 2    | Pax6 and neurodegeneration of Parkinson's disease        | Dr Y Q Song, Department of Biochemistry   | Neurodegeneration of parkinson's disease: the role | Dr Y Q Song, Department of           |
|                  |                  |      |  |   | of Pax6 in MPP+-induced apoptosis Parkinson's      | Biochemistry                         |
|                  |                  |      |  |   | disease in vitro model                             |                                      |
| Lai Cheuk Hei    | BSc(3)           | 1    | Pathogenesis of influenza viruses                        | Dr Chan Wan Yi, Department of Pathology   |  |                                      |
|                  |                  |      |  | Dr Chan Chi Wai, School of Public Health  |  |                                      |
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| Lam Chun Ming      | BSc(3)           | 2 | Light controllable kinesin  | Dr J D Huang, Department of Biochemistry                     | Meiotic spo11 recombination initiation complex in zea mays analysis using yeast two-hybrid system – cloning of spo11-1A, spo11-1B, and prd2 | Dr Arnard Ronceret, University of<br>California, Berkeley      |
|--------------------|------------------|---|---|--|---|--|
| Lau Wing Yan       | BSc(3)           | 2 | Molecular characterization of puerarin-protein interactions by proteomics and domain mapping  | Dr J Rong, School of Chinese Medicine                        | Isolation of puerain binding protein by biotin-<br>streptavidin system  | Dr J Rong, School of Chinese<br>Medicine                       |
| Li Yu Ting Stephen | BSc(3)           | 2 | The role of cell-cell junction proteins and actin regulatory proteins on germ cell migration and development during spermatogenesis | Prof W W M Lee, School of Biological<br>Sciences             | Unraveling the role of actin regulatory proteins on cytoskeleton during spermatogenesis   | Dr C Y Cheng, Rockefeller University                           |
| Lin Tsen-yuan      | BSc(3)           | 2 | Analysing Fermi's data  | Prof K S Cheng, Department of Physics                        |   |  |
| Ng Ngai Fung*      | BSc(3)           | 2 | Riemann surfaces and complex manifolds  | Prof N Mok, Department of Mathematics                        | Studies on kahler manifolds   | Prof N Mok, Department of<br>Mathematics                       |
| Peng Jun           | BSc(3)           | 1 | Calculus of variation   | Prof W S Cheung, Department of<br>Mathematics                |   |  |
| Shen Keren         | BSc(3)           | 2 | The generalization of Gibbard-Satterthwaite theorem   | Dr T W Ng, Department of Mathematics                         | One candidate voting with a quorum  | Dr T W Ng, Department of<br>Mathematics                        |
| Song Yifan         | BSc(3)           | 2 | Data analysis for Fermi Satellite   | Prof K S Cheng, Department of Physics                        |   |  |
| Tang Yunfan        | BSc(ActuarSc)(3) | 2 | Option pricing under regime switching models  | Prof H L Yang, Department of Statistics & Actuarial Science  |   |  |
| Tse Man Nok        | BSc(3)           | 2 | The roles of Lmxla gene in regulating Irx3/5 genes during inner ear development   |  | The roles of Lmx1a in regulating Irx3 and Irx5 genes in inner ear development   | Dr M H Sham, Department of<br>Biochemistry                     |
| Wan Ho Chi         | BSc(ActuarSc)(3) | 2 | Dependance structures in multiple life insurances and annuities   | Dr K C Cheung, Department of Statistics & Actuarial Science  | A study in optimal reinsurance  | Dr K C Cheung, Department of<br>Statistics & Actuarial Science |
| Wong Kin Lam       | BSc(3)           | 2 | Modulation of secretin and secretin receptor gene regulations by NFAT5 in mouse hypothalamic cells                                  | Prof K C Chow, School of Biological<br>Sciences              | The modulation of secretin receptor expression by hyperosmotic stress in mouse hypothalamic cells   | Prof K C Chow, School of Biological<br>Sciences                |
| Wu Qihang*         | BSc(3)           | 2 | Tectonic evolution of the Chinese Altai   | Prof M Sun, Department of Earth Sciences                     | A detailed structral study of Qiongkuer Region,<br>China Altai: multiphase deformation and<br>modification for terrane subdivision proposed | Prof M Sun, Department of Earth<br>Sciences                    |
| Zheng Yao*         | BSc(ActuarSc)(3) | 3 | Applications of nonlinear time series models  | Prof W K Li, Department of Statistics &<br>Actuarial Science | Applications of nonlinear time series models: fitting threshold models to veilleux's predator series  | Prof W K Li, Department of Statistics & Actuarial Science      |