

## Research Projects by Academic Staff

There are about 709 research projects just completed or currently undertaken by academic staff of the University. Below are some examples:

### Faculty of Arts

| Title   | Area   |
|---|--|
| A Study of the Postcolonial Discourse in Post-1997 Hong Kong 後九七香港後殖民論述研究   | 香港文化   |
| A Study of Traditional Chinese Matrimonial Etiquette as Recorded in Ancient Korean Ritual Documentations 韓國古代禮書中的中國傳統婚禮資料研究                                       | 經學   |
| Chronology of the Works of the Qing Scholars on Shi Jing 清代學者詩經研究著述年表   | 經學   |
| The Lineages, Classical Studies and Intellectual History under Ming and Qing Examination System 明清科舉制度下的家族、學術、與思想   | 清代學術史  |
| Hong Kong Drama Translation and Cultural Identity: 1962-2005  | Translation  |
| Contemporary American Indian Mixedblood Literature  | Literature   |
| A Study of the Visual and Linguistic Elements in Hypertext Resources for Learning English and Their Effectiveness on Users  | Linguistics  |
| A Corpus-based Study of the Chinese Aspectual System at the Verbal Level, the Sentential Level and the Discoursal Level   | Linguistics  |
| Specifying English Core Competency of Hong Kong University Students: Language Planning and Education  | Second Language Teaching and Learning                  |
| A Study of Hong Kong Cantonese English Learners' Interlanguage Pragmatic Development  | Second Language Pragmatics                             |
| A Critiquing System for Enhancing Writing Competency Using Automatic Text Analysis  | Web-based Language Teaching and Learning               |
| A Study of Linguistic and Rhetorical Features of Chinese Essays Written by English Speakers   | Second Language Acquisition                            |
| Keys to the Kingdom: A Documentary Study of the Pipe Organ in China from the Early 17th Century to the Present Day  | Musicology   |
| A Long Journey: Three Chinese Composers' Quest for New Music: Zhou Jian'er, Luo Zhongrong, and Wang Xilin   | Musicology   |
| Narrative Research in Music Education: Asian Context  | Music Education  |
| Development of Music Education in the 21st Century: Cultural and Policy Issues  | Music Education  |
| The Relationship Between Musical Aptitude, Musical Achievement, and Academic Aptitudes: Implications for Student Diversity and Education (Public Policy Research) | Music Education  |
| Musical Aptitude Profiles and Student-centered Curriculum Development (Quality Education Fund)  | Music Education  |
| Showing What Cannot Be Said: Understanding Wittgenstein's Tractatus   | Philosophy   |
| Changing Church and State Relations in Contemporary China: A Case Study of the Catholic Church  | Christian Studies and Sociology                        |
| Transcending Negation - The Apophatic Discourse of Laozi's Daoism and Pseudo-Dionysius' Theology  | Chinese Philosophy, Comparative Philosophy of Religion |
| Theologizing Confucianism: On Boston Confucianism   | Chinese Philosophy, Inter-Religious Dialogue           |

## School of Business

| Title   | Area   |
|---|--|
| Concentrated Control, Institutions and Banking Sector: An International Study   | Corporate Governance   |
| The Role, Responsibility and Characteristics of Audit Committee in China  | Auditing   |
| Searching for an Optimal Efficiency Measure: A Monte Carlo Study  | Efficiency Analysis  |
| An Economic Evaluation of Chinese Universities during the Post-reform Period  | Chinese Economy and Efficiency Analysis                        |
| The Potential Efficiency Gains of Economic Integrations in the Pan Pearl River Delta (The '9+2' Arrangement)  | Chinese Economy  |
| An Assessment of China's Health Care Sector: An Exploratory Analysis  | Medical Economics, Chinese Economy and Efficiency Analysis     |
| An Analysis of China's Inter-Regional Disparities of Industrial Productivity  | Development Economics, Chinese Economy and Efficiency Analysis |
| New Davidson and Duclos Test Statistics with Applications in Spot and Futures Markets   | Applied Econometrics and Financial Economics                   |
| Assets Performance Testing with the Mean-Variance Ratio Statistics  | Applied Econometrics and Financial Economics                   |
| Subgame-consistent Solutions for Asynchronous-horizon Cooperative Stochastic Differential Games   | Game Theory  |
| Electronic Trading and the Efficiency of FTSE-100 Index Options and Futures Markets   | Financial Derivatives, Market Microstructure                   |
| Long-term Performance of Additions and Deletions of Hang Seng Index Constituent Stocks  | Investment Analysis, Trading Strategies and Market Efficiency  |
| Negativity Bias: the Effects of Negative Online Consumer Reviews on Consumer Purchasing Decision  | E-commerce   |
| Pseudo-Bayesian Updating and Market Anomalies   | Behavioural Finance, Investment and Financial Modeling         |
| The Effects of Lean Production Work Practices on Occupational Stress: A Case of Hong Kong Owned Manufacturers in the Pearl River Delta                      | High Performance Work Practices                                |
| SHRM and Corporate Entrepreneurship: The Moderating Effects of Organizational Culture and Structure   | Strategic HRM  |
| The Effects of Symbiosis Tendencies on Alliance Building and Firms' Financial Performance: A Test Among Small-and-Medium-Sized Firms in Hong Kong and China | Business Strategy  |
| The Incremental Value of Emotional Intelligence on Job Performance: A Model of Emotional Intelligence, General Mental Abilities and Job Performance         | Organizational Behaviour                                       |
| The Organization of Care for the Elderly and Dying in Hong Kong   | HR Management  |
| Media Critics versus Online Forum Ratings of Motion Pictures: Their Predictive Powers of Cumulative Box-Office Sales  | Marketing Communications                                       |
| Co-brand Marketing in China: Moderation Effects of Collectivism-Individualism on Local/Foreign and Profit-Making/Non-Profit-Making Partnerships             | Branding   |
| The Effectiveness of Warning Label Information under Conditions of Polychronism   | Relationship Marketing   |
| Trust, Legalism, Satisfaction and Long-Term Orientation: Comparison of Different Perspectives of Chinese Companies and Western Companies in China           | China Business Studies   |
| Knowledge Transfer and International Joint Venture Performance in China: The Moderating Roles of Contractual Governance and Relational Governance           | International Business   |

## School of Chinese Medicine

| Title   | Area                                  |
|---|---------------------------------------|
| 中醫學肺主水功能的物質基礎研究   | Traditional Chinese Medicine Classics |
| Systematic Review of Chinese Herbal Formulae for the Treatment of Common Chronic Diseases   | Clinical Studies                      |
| Chinese Herbal Medicine in Patients with Functional Constipation  | Clinical Studies                      |
| Chinese Herbal Medicine for Inflammatory Bowel Disease  | Clinical Studies                      |
| Drug Product on Anti-rheumatoid Arthritis from Chinese Medicine   | Herbal Drugs                          |
| Library of Authenticated Natural Product Extracts   | Herbal Drugs                          |
| Studies of the Neuroprotective Effect of Chinese Herbs  | Herbal Drugs                          |
| Study of the Anti-carcinogenic Effects of Chinese Herbs   | Herbal Drugs                          |
| The Safety of Chinese Herb in Preventing Abortion   | Herbal Drugs                          |
| Research in Chinese Medicine, Natural Products, Metabolomics, Food and Environmental Sciences   | Molecular Pharmacology                |
| Transcription Factor NF- $\kappa$ B in Vitamin D Receptor Function and Cancer Drug Discovery  | Molecular Pharmacology                |
| Discovery and Development of Biomarkers for Evidence-based Chinese Medicines Using the Proteomic Technology Platform                                | Molecular Pharmacology                |
| Molecular Events Associated with the Anticancer Effects of Botanical Saponins that may Target the Ras-Raf-MAPK                                      | Molecular Pharmacology                |
| Role of Supraspinal Brain-derived Neurotrophic Factor Signaling in Neonatal Maternal Separation Induced Visceral Hyperalgesia                       | Molecular Pharmacology                |
| The Anti-Carcinogenic Potential of Astragalus Isoflavonoids and Their Mode of Action  | Molecular Pharmacology                |
| Effects of Sanguinarine on Modulation of Functional MicroRNAs in Cancer Cells   | Molecular Pharmacology                |
| Glucose-induced Oxidative Stress and Endoplasmic Reticulum Stress in the Vascular Smooth Muscle Cells   | Molecular Pharmacology                |
| Proteomic Profiles of the Human in Vitro Hepatocellular Steatosis Models and Molecular Mechanisms of the Hepatic Lipid Lowering Effects of Drugs    | Molecular Pharmacology                |
| Effects of Mutations on Hyperlipidemia and Colorectal Cancer in a Min Mouse Model   | Molecular Pharmacology                |
| Discovery of the Protein Biomarkers for the Cardioprotective Effect of Ginseng Extract Using the Proteomic Technology                               | Molecular Pharmacology                |
| Effects of 3',4'-bis(3,4-dimethoxycinnamoyloxy)-cis-khellactone (DMDCK) in Enhancing Anti-tumor Drugs Actions in Human Carcinoma Xenografts in Mice | Molecular Pharmacology                |

## School of Communication

| Title  | Area                  |
|--|-----------------------|
| European Cinema  | Cinema and Television |
| Chinese-language Film and Hollywood  | Cinema and Television |
| Asian Screen Industry  | Cinema and Television |
| Taiwan Film Directors  | Cinema and Television |
| Hong Kong New Wave Cinema  | Cinema and Television |
| Hong Kong TVB and Globalization  | Cinema and Television |
| Theory of Non-narrative Drama  | Cinema and Television |
| Hong Kong Cinema of Turbulence   | Cinema and Television |
| Realist Film Theory and Cinema   | Cinema and Television |
| British Documentary Film Movement  | Cinema and Television |
| Development of Materialistic Values among Children and Adolescents in Macau  | Communication Studies |
| Communicating Healthy Eating to Adolescents: A Cross-cultural Study  | Communication Studies |
| Communication Experience and Adaptation of Mainland Immigrants in Hong Kong and Hong Kong Immigrants in Mainland China | Communication Studies |
| Conflict Management in Three Taiwanese Organizations   | Communication Studies |
| Media Environment and Crisis Communication   | Communication Studies |
| New Media and Relationship Building  | Communication Studies |
| Spread of SARS and War-related Rumours through New Media in China  | Communication Studies |
| Developing An Environmental Scanning Model for Public Issues in China  | Communication Studies |
| Cultural Influence on Relationship Management in Greater China   | Communication Studies |
| Constructing the Theory of Relationship Management   | Communication Studies |
| Government Relations and Business Lobbying in China  | Communication Studies |
| Risk Perception, New Media, Culture in Risk Communication  | Communication Studies |
| Effectiveness of Public Communication in Macau   | Communication Studies |
| Non-financial Indicators of Public Relations Effectiveness   | Communication Studies |
| Assessing Celebrity Endorsement Effects in China: A Consumer-Celebrity Relational Approach                             | Communication Studies |
| Strategic Management of Public Relations in Contemporary China   | Communication Studies |
| Communication and Nationalism  | Journalism            |
| Journalism and Social Change   | Journalism            |
| Journalism and New Media   | Journalism            |
| News and Politics  | Journalism            |
| News Media Management  | Journalism            |
| Broadcasting Policy  | Journalism            |
| Chinese Media Reform   | Journalism            |
| Media Literature and Education   | Journalism            |
| International Journalism   | Journalism            |
| Hong Kong Media Performance  | Journalism            |
| Business and Financial Journalism and Its Interplay with the Industry  | Journalism            |

## Faculty of Science

| Title  | Area  |
|--|---|
| Protection and Redevelopment of Agricultural Soil in Hong Kong   | Environmental Research                      |
| Bioremediation of Organochlorine Pesticides Contaminated Soil with Microemulsion   | Bioremediation                              |
| Water Stress on Crop Production: From Molecular Mechanisms to the Crops in the Field   | Plant Physiology and Crop Production        |
| Ginsenosides as Functional Ligands of Steroid Hormone Receptors: from Ligand-Receptor Interactions to Cellular Homeostasis                       | Molecular Pharmacology and Chinese Medicine |
| Neuroprotective Strategies in Cell and Animal Models of Parkinson's Disease  | Neuro-degenerative Disease                  |
| Enantioselective Fluorescent Recognition of Trifunctional Aminoacids by Cholic Acid and Mesitylene Based Chemosensors in Aqueous Solution        | Organic Chemistry                           |
| Synthesis, Characterization and Bioactivity of Bifunctional Amphiphilic Porphyrin-Based Photosensitizers   | Material Chemistry                          |
| Direct Monitoring of Aggregation Kinetics of Single Molecules of Alzheimer's Amyloid-beta Peptide  | Analytical Chemistry                        |
| Novel Organic Semiconductors Based on Donor-Acceptor $\pi$ -Conjugated Molecular Systems for Optoelectronic and Nonlinear Optical Applications   | Material Science                            |
| Metallopolymers as Precursors to Magnetic Metal Alloy Nanoparticles: Synthesis, Characterization, Lithographic Patterning and Device Fabrication | Organometallic Chemistry                    |
| Mechanism Design for Multiagent Systems in Distributed Data Mining   | Multiagent                                  |
| Query Processing in Flash-Based Storage-Centric Sensor Networks  | Networking                                  |
| Generating Secure and Discriminative Cancelable Face Biometric Templates   | Pattern Recognition                         |
| A Bilinear Study of Q-difference Type, Nonisospectral Type and Multi-component Fully-discrete Type of Soliton Equations                          | Optimization                                |
| Data-Centric Filter Management and Routing Optimization for Distributed Monitoring Systems   | Networking                                  |
| Statistical Inferences for Varying Coefficient Mixed Effects Models with Nonparametric Distribution  | Statistics                                  |
| Spectral Methods for Functional Differential Equations and Integral Equations  | Scientific Computing                        |
| The Study on Some Spectral Properties of Fullerene Molecules   | Graph Theory                                |
| Efficient Total Variation Minimization Models and Image Restoration Applications   | Image Processing                            |
| Implicit Complementarily Problems -- Applications and Algorithms   | Optimization                                |
| Bio-Imaging and Modeling of Cell Dynamics  | Biophysics                                  |
| Biophotonics and Laser Spectroscopy  | Bio and Chemical Physics                    |
| Theoretical Analysis and Modeling of Biological Networks   | Statistical Physics/<br>Systems Biology     |
| Complex Adaptation and Self-organization in Dynamical Complex Networks   | Complex Nonlinear Systems                   |
| Quantum Interference Effects in Quantum Optics   | Quantum Optics                              |
| Organic Photonic Materials and Devices   | Organic Photonics                           |
| Metamaterials, Photonic Crystal and Plasmonics   | Photonics                                   |

## Faculty of Social Sciences

| Title  | Area                                 |
|--|--------------------------------------|
| Enhancing Student-Teachers' Learning and Reflection on Their Interpersonal Classroom Behaviour   | Education Studies                    |
| Exodus & Education Narrating Hong Kong History during the War Year (1941-45)   | Education Studies                    |
| Development and Evaluation of Positive Youth Development Programs in Hong Kong   | Education Studies                    |
| Impact of Hong Kong Government's Biliterate Trilingual Policy on Students' Language Attitudes towards English, Cantonese and Putonghua             | Education Studies                    |
| Work Life Balance: Continuing Professional Development and the Design of Teachers' Work  | Education Studies                    |
| A Comparative Study of 'Villages in the City' in Urban China   | Geography                            |
| Urban Restructuring and Relocation of Housing and Jobs: Implications for Access to Employment Opportunities and Spatial Mismatch in Chinese Cities | Geography                            |
| Utopian Urbanism in Hong Kong  | Geography                            |
| Modeling Individuals' Time Allocation between Activities in Virtual and Physical Spaces  | Geography                            |
| Seeking Resolutions: How Local States in China Handle Workers' Collective Action   | Government and International Studies |
| Reshaping State-Labor Relations in China: Conflict and Accommodation   | Government and International Studies |
| Central Asia and China: Between Cooperation and Mutual Fears   | Government and International Studies |
| Constitutional Reforms and the Elections of 2007/2008  | Government and International Studies |
| The Maryknoll Sisters in Hong Kong, 1921-1969: Their Contribution in Education, Social Services and Welfare  | History                              |
| Migration and Enterprises: A Business History of Three Migrant Families in Shanghai, Hong Kong and Singapore, 1860-2000                            | History                              |
| Works by Qing Women on Education Their Children  | History                              |
| The History of London Missionary Society in Hong Kong, 1842-1922   | History                              |
| Interactive Effect of Specific Inspiratory Muscle Training and Warm-up on Exhaustive Intermittent Run  | Physical Education                   |
| How Active is the Hong Kong Public?  | Physical Education                   |
| The Associations between Exercise and Depression   | Physical Education                   |
| An Investigation of the Physical Environment Effects on Physical Activity Level, Attitudes, and Weight Status in Hong Kong Chinese Children        | Physical Education                   |
| Educational Stratification in China – A View from the Top  | Sociology                            |
| Rebuilding 'Community' as Globalization-From-Below: Community-based Development in a Distressed Hong Kong Neighborhood                             | Sociology                            |
| Familiars or Strangers? Return Migrants in Hong Kong   | Sociology                            |
| Social Networks & Marital Power: A Cross-Sectional Study in Hong Kong  | Sociology                            |
| The Opinion of Different Stakeholders Towards Public Facilities in Wan Chai District   | Social Work                          |
| Internet Behaviour and Online Risks: Perceptions of Parents and Youth  | Social Work                          |
| The Study of Urban Mud Larks in Hong Kong  | Social Work                          |