



Award Presentation



RGC Senior Research Fellow Scheme





SRFS Awardees 2020/21

Prof Douglas Wayne ARNER

The University of Hong Kong

Prof Christy Mei-kwan CHEUNG

Hong Kong Baptist University

Prof Giulio CHIRIBELLA

The University of Hong Kong

Prof Benjamin John COWLING

The University of Hong Kong

Prof Yu HUANG

The Chinese University of Hong Kong

Prof Jianfa SHEN

The Chinese University of Hong Kong

Prof Chuyang TANG

The University of Hong Kong

Prof Raymond Wai-yeung WONG

The Hong Kong Polytechnic University

Prof Zuowei XIE

The Chinese University of Hong Kong

Prof Tong YANG

City University of Hong Kong





SRFS Awardee 2020/21

Prof Douglas Wayne ARNER

Department of Law

The University of Hong Kong

Project Title:

*Digital Finance, Financial Inclusion and Sustainability:
Building Better Financial Systems*





SRFS Awardee 2020/21



Prof Douglas Wayne ARNER

- ❧ Kerry Holdings Professor in Law (since 2017), Director and co-founder of the Asian Institute of International Financial Law at The University of Hong Kong
- ❧ Leads the development of Introduction to FinTech – launched with edX in May 2018 and now with over 80,000 learners spanning every country in the world
- ❧ Advises on financial sector development projects around the world, as an advisor to the United Nations (UN), World Bank, Asian Development Bank, APEC, Alliance for Financial Inclusion and European Bank for Reconstruction and Development
- ❧ SRFS project – to investigate how the global digital transformation of finance and its regulation, as well as the potential of FinTech and regulatory technology (RegTech) can – and more importantly, should – promote sustainable inclusive development, in terms of each of the UN’s 17 Sustainable Development Goals (SDGs)
- ❧ Awards and Honours:
 - 🏆 RGC Senior Research Fellow (2020)
 - 🏆 Finalist for edX Prize (2020)
 - 🏆 Outstanding Young Researcher Award (2007)





SRFS Awardee 2020/21

Prof Christy Mei-kwan CHEUNG

**Department of Finance and Decision Sciences
Hong Kong Baptist University**

Project Title:

*Cybermobbing on Social Media: The Role of Technology
in Formation, Prevention, and Intervention of Online
Collective Deviant Behavior*



張美君教授





SRFS Awardee 2020/21



Prof Christy Mei-kwan CHEUNG

- ❧ President of the Association for Information Systems (AIS-Hong Kong Chapter)
- ❧ Editor-in-Chief for *Internet Research*
- ❧ Research expertise in technology use and well-being, online deviant behaviour and human information behaviour strategies
- ❧ SRFS project – to study the collective nature and mechanism of cybermobbing on social media and evaluate technology-based prevention and intervention strategies
- ❧ Awards and Honours:
 - 🏆 RGC Senior Research Fellow (2020)
 - 🏆 HKBU President's Award for Outstanding Performance in Research Supervision (2020)
 - 🏆 Emerald Literati Network Awards for Excellence (2016)
 - 🏆 Distinguished Paper Award, International Conference on e-Commerce, e-Administration, e-Society, e-Education, and e-Technology (2011, 2014, 2015)





SRFS Awardee 2020/21

Prof Giulio CHIRIBELLA

Department of Computer Science
The University of Hong Kong

Project Title:

*Quantum Causal Discovery and the Foundations of
Quantum Artificial Intelligence*



朱力歐·克貝拉教授





SRFS Awardee 2020/21



Prof Giulio CHIRIBELLA

- ☞ Director, QICi Quantum Computation and Information Initiative at The University of Hong Kong
- ☞ Internationally known for contributions to the theory of quantum networks, quantum statistics, and the foundations of quantum mechanics
- ☞ SRFS project – to design new algorithms for discovering cause-effect relations at the quantum scale, to develop a fully quantum theory of causal discovery, and to explore its application to the design of intelligent quantum machines capable of identifying cause-effect relations at the quantum scale
- ☞ Awards and Honours:
 - 🏆 RGC Senior Research Fellow (2020)
 - 🏆 Croucher Senior Research Fellow (2018)
 - 🏆 CIFAR-Azrieli Global Scholar (2016)
 - 🏆 Tsinghua University Excellent Young Teacher Award (2015)
 - 🏆 Hermann Weyl Prize (2010)





SRFS Awardee 2020/21

Prof Benjamin John COWLING
School of Public Health
The University of Hong Kong

Project Title:

*Determining Optimal Influenza Vaccination Strategies in
Hong Kong*



高本恩教授





SRFS Awardee 2020/21



Prof Benjamin John COWLING

- ❧ Co-Director, WHO Collaborating Centre for Infectious Disease Epidemiology and Control, School of Public Health, Li Ka Shing Faculty of Medicine, The University of Hong Kong
- ❧ Editor-in-Chief for *Influenza and Other Respiratory Viruses*; has been researching on COVID-19 epidemiology and transmission dynamics, publishing related work in the *New England Journal of Medicine*, *Science*, and *Nature Medicine*
- ❧ Design and implement large field studies of influenza transmission in the community and the effectiveness and impact of control measures including vaccination, with focus also on immunity to infections at the individual and population level of respiratory viruses including influenza and coronaviruses
- ❧ SRFS project – to examine optimal vaccination strategies for older adults in the context of repeat vaccination effects, with a view to reducing the substantial morbidity and mortality caused by influenza virus infections in this age group, and the pressure on hospital systems during severe influenza epidemics
- ❧ Awards and Honours:
 - 🏆 RGC Senior Research Fellow (2020)
 - 🏆 Croucher Senior Research Fellowship (2015)





SRFS Awardee 2020/21

Prof Yu HUANG

School of Biomedical Sciences

The Chinese University of Hong Kong

Project Title:

*Systemic Benefits of Physical Activity: Crosstalk between
Organs on Signal Transduction from Mechano-stimulation
to Metabolism*



黃聿教授





SRFS Awardee 2020/21



Prof Yu HUANG

- ❧ Professor of Biomedical Sciences (since 2010) and Founding Director of Heart and Vascular Institute, The Chinese University of Hong Kong
- ❧ Vice-President for Chinese Society for Vascular Medicine
Vice-President for Chinese Section of International Society for Heart Research
Past President for Asian Society for Vascular Biology
- ❧ The Fellow of International Society for Heart Research and Associate Editor for *Circulation Research*
- ❧ SRFS project – to focus on identification of secretory proteins and metabolites that mediate the crosstalk between organs during exercise, and to develop the mediators into useful diagnostic biomarkers as well as the therapeutic target against cardiovascular and metabolic diseases
- ❧ Awards and Honours:
 - 🏆 RGC Senior Research Fellow (2020)
 - 🏆 Higher Education Outstanding Scientific Research Output Award (1st class in 2019, 2nd class in 2017), Ministry of Education
 - 🏆 The State Natural Science Award (2nd class) (2015)
 - 🏆 Croucher Senior Research Fellowship (2014)





SRFS Awardee 2020/21

Prof Jianfa SHEN

Department of Geography and Resource Management
The Chinese University of Hong Kong

Project Title:

Modelling and Simulating Regional Migration Systems



沈建法教授





SRFS Awardee 2020/21



Prof Jianfa SHEN

- ☞ Director of the Research Centre for Urban and Regional Development, The Chinese University of Hong Kong
- ☞ Vice-Chair of the Commission on Population Geography, International Geographical Union
- ☞ Research interests include migration and urbanization, urban and regional development, Hong Kong and Pearl River Delta
- ☞ SRFS project – to analyze various impacts on modelling performance based on a general migration model with many explanatory variables, in addition to population and distance in a simple gravity model, help to reach a better understanding of the migration process
- ☞ Awards and Honours:
 - 🏆 RGC Senior Research Fellow (2020)
 - 🏆 Regional Studies Association Award for Best International Conference Paper (2016)
 - 🏆 Excellent National Urban and Rural Planning Design Award (2013), Association of Town and Country Planning of China





SRFS Awardee 2020/21

Prof Chuyang TANG
Department of Civil Engineering
The University of Hong Kong

Project Title:

*Novel Polyamide Reverse Osmosis Membranes with
Enhanced Mass Transfer and Integrity for Highly
Efficient Water Reuse*



湯初陽教授





SRFS Awardee 2020/21



Prof Chuyang TANG

- ❧ A world leader in membrane technology, desalination, and water reuse
- ❧ 12 patents awarded (two successful commercialization cases, including *Rapid Water Filter*)
- ❧ Make critical contributions to the better understanding of the nanoscale structures of desalination membranes and their transport behaviours, and lead the invention of aquaporin-based biomimetic membrane technology that has been widely recognized
- ❧ SRFS project – to create novel membrane surface morphologies that overcomes the traditional constraints of membrane-based water reuse with respect to high energy consumption, fouling, and membrane integrity, leading to a breakthrough in water reuse
- ❧ Awards and Honours:
 - 🏆 RGC Senior Research Fellow (2020)
 - 🏆 Singapore Ministry for National Development R&D Merit Award (2013)
 - 🏆 Finland Distinguished Professor Program Fellowship Award (2010)
 - 🏆 International Desalination Association Fellowship (2010)





SRFS Awardee 2020/21

Prof Raymond Wai-yeung WONG

Department of Applied Biology and Chemical Technology
The Hong Kong Polytechnic University

Project Title:

*Metallated Graphyne-Based Materials: Synthesis,
Characterization, Properties, Functionalization and
Application Studies*



黃維揚教授





SRFS Awardee 2020/21



Prof Raymond Wai-yeung WONG

- ☞ Chair Professor of Chemical Technology (since 2016), Clarea Au Professor in Energy (since 2018) and Associate Dean (Research), Faculty of Applied Science and Textiles (since 2016) at the Hong Kong Polytechnic University
- ☞ Founding Member of the Hong Kong Young Academy of Sciences
- ☞ Research focus on the design and synthesis of new metallopolymers and metallo-organic molecules with photofunctional properties and energy functions
- ☞ SRFS project – to initiate a new programme of designing and synthesizing metallated graphynes (MGYs), graphdiynes (MGDYs) and their derivatives by the facile bottom-up approach, to find applications in the fields of electronics (including thermoelectrics, optoelectronics and spintronics) and catalysis (e.g. electrocatalysis)
- ☞ Awards and Honours:
 - 🏆 RGC Senior Research Fellow (2020)
 - 🏆 Thomson Reuters/Clarivate Analytics Highly Cited Researcher Award (2014–2020)
 - 🏆 The State Natural Science Award (2nd class) (2013)
 - 🏆 RSC Chemistry of the Transition Metals Award (2010)





SRFS Awardee 2020/21

Prof Zuowei XIE

Department of Chemistry

The Chinese University of Hong Kong

Project Title:

Base Metal Catalyzed Selective B-H Functionalization of Carboranes: Controlled Synthesis of Functionalized Carboranes and their Applications in Catalysis



謝作偉教授





SRFS Awardee 2020/21



Prof Zuowei XIE

- ☞ Choh-Ming Li Professor of Chemistry at The Chinese University of Hong Kong since 2013
- ☞ Fellow of the Royal Society of Chemistry
Member of The Chinese Academy of Sciences
Member of The Hong Kong Academy of Sciences
- ☞ Distinguished in the areas of carboranes, supercarboranes, metallocarboranes and low-valent boron chemistry
- ☞ SRFS project – to generate a series of new base metal catalyzed synthetic methodologies, bringing more possibilities to the effective and efficient construction of carborane-based functional molecules and the corresponding applications
- ☞ Awards and Honours:
 - 🏆 RGC Senior Research Fellow (2020)
 - 🏆 Chinese Chemical Society Yao-Zeng Huang Award in Organometallic Chemistry (2010)
 - 🏆 The State Natural Science Award (2nd class) (2008)
 - 🏆 Croucher Senior Research Fellowship (2003)



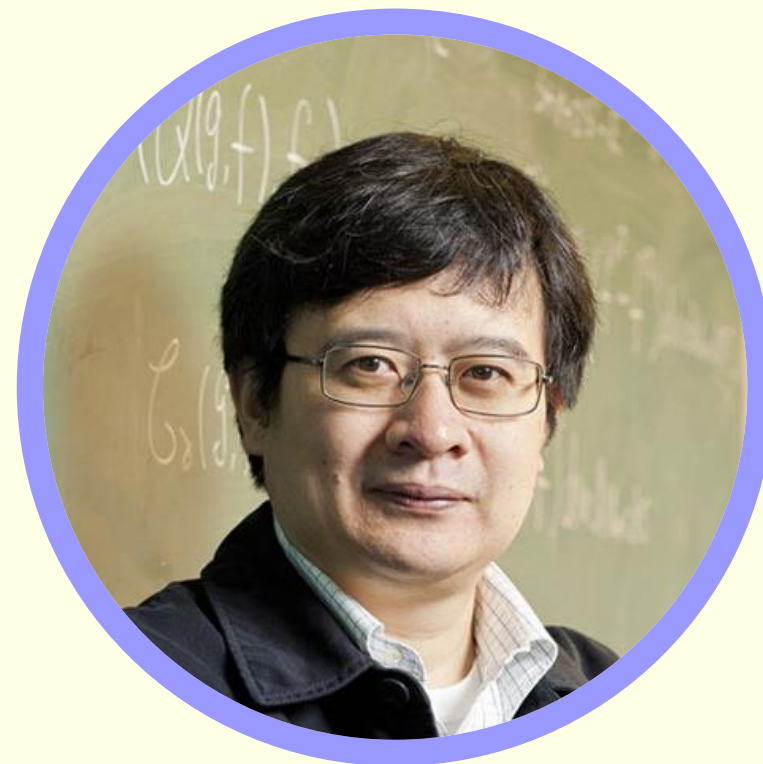


SRFS Awardee 2020/21

Prof Tong YANG
Department of Mathematics
City University of Hong Kong

Project Title:

Some Mathematical Theories for Kinetic Systems

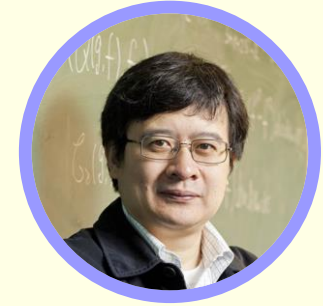


楊彤教授





SRFS Awardee 2020/21



Prof Tong YANG

- ☞ Chair Professor at City University of Hong Kong since 2007
- ☞ Fellow of the European Academy of Sciences (since 2018)
President of Hong Kong Mathematical Society (2016-2020)
- ☞ Expert in the fields of partial differential equations and kinetic theory
- ☞ SRFS project – to study the solution behaviour and fluid dynamic limits of some typical kinetic models that include the Vlasov-Maxwell-Boltzmann system and the Vlasov-Nordström-Fokker-Planck system
- ☞ Awards and Honours:
 - 🏆 RGC Senior Research Fellow (2020)
 - 🏆 The State Natural Science Award (2nd class) (2012)
 - 🏆 Croucher Senior Research Fellowship (2011)





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Prof Chuyang TANG

The University of Hong Kong

Prof Raymond Wai-yeung WONG

The Hong Kong Polytechnic University

Prof Zuowei XIE

The Chinese University of Hong Kong

Prof Tong YANG

City University of Hong Kong

