



THE HONG KONG
POLYTECHNIC UNIVERSITY
香港理工大學

Opening Minds • Shaping the Future • 啟迪思維 • 成就未來

DEPARTMENT OF
BUILDING & REAL ESTATE
建築及房地產學系
INTERNATIONAL • COLLABORATIVE • CONSTRUCTION

BRE Connected

Dec 2020



Department of
Building and Real Estate

建築及房地產學系



2766 5815



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HKPolyUBRE



香港理工大学建筑及房地产学系

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Head's Message

Rooting Hard For You

Welcome to the new issue of BRE Connected, our departmental and dedicated newsletter for our stakeholders!

I hope you all are staying healthy and doing well. The adaptability and the resilience you demonstrated amid the many particularly tough challenges in 2020 is widely applauded.

This issue shares some compelling and vibrant stories of our alumni, students and colleagues. I am happy that they succeeded in the professional sense and in their studies, research and community service, exhibiting unfailing perseverance and overcoming obstacles in realizing their potential. I couldn't be prouder of them. Keep up the good work!

My heartfelt congratulations go to Sr Au Choi Kai, SBS and Sr Tony Tse Wai Chuen, BBS, the recipients of the Outstanding BRE Alumni Award 2020 on their well-deserved honour. In addition, please join me in applauding our surveying student, Maggie Ng Tsin Tung who recently received Outstanding Student Awards, of the Faculty of Construction and Environment (FCE) and of the Department of Building and Real Estate (BRE). I am confident that our remarkable alumni along with our bright students will build a stronger future for us.

A new move in September 2020 marked the official inauguration of the Doctor of International Real Estate and Construction Programme (DIREC), the first-ever professional doctorate in international real estate and construction in Hong Kong. At the heart of all our leading taught postgraduate programmes, is the wish to shape your lifelong learning journey fitting you for the challenging and exciting future ahead and enhancing your career development.

As always, I am rooting hard for you every step of the way towards more great successes. As the year 2020 draws to a close, I send my best wishes to you all for a Brighter New Year! Enjoy reading!

Ir Prof. Albert P.C. Chan, PhD

Head of Department of Building and Real Estate

Associate Director of the Research Institute for Sustainable Urban Development (RISUD)

Able Professor in Construction Health and Safety

Chair Professor of Construction Engineering and Management



Awards & Achievements

Outstanding BRE Alumni Award (2020) Paying Tribute to Exceptional Alumni

The Department of Building and Real Estate (BRE), with its long history of professionally oriented higher education, has evolved innovative initiatives along the way. A large number of remarkable minds have been nurtured who have blazed a trail in Hong Kong's construction industry and played an indispensable, central role in the spectacular development of Hong Kong and beyond.

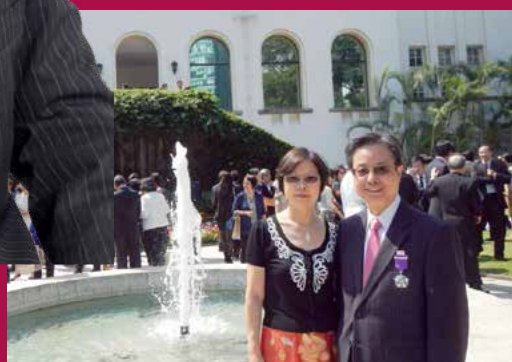
To mark, and to honour, the great contributions made by our alumni within their various professions, BRE proudly mounted this year, its sixth presentation of the Outstanding BRE Alumni Award (OBAA). The first presentation took place in 2010.



Sr AU Choi Kai, SBS

*Higher Diploma in Surveying (Building Surveying) (Year of Award : 1974)
Former Director of Buildings, Buildings Department, The Government of HKSAR*

Sr Au is a founding member of the Hong Kong Institute of Surveyors in 1984, became a Fellow in 1990, and was named a Distinguished Building Surveyor in 2014. His expertise in building control and the formulation of statutory building standards derived from four decades of work experience. He was the Director of Buildings and the Building Authority from 2008 until his retirement in 2014.



Congratulations go to this year's two award recipients, Sr Au Choi Kai, SBS and Sr Tony Tse Wai Chuen, BBS. Sr Au and Sr Tse provide excellent role models for our students and young graduates. Certainly, both awardees and other BRE graduates inspired by their example, will continue to better our Society and the PolyU in the years ahead.



Sr Tony TSE Wai Chuen, BBS

*Higher Diploma in Surveying (Year of Award : 1976)
Member of the Legislative Council for Architectural, Surveying, Planning and Landscape*

After graduation, Sr Tse joined the Hong Kong Civil Service and worked in various offices of the then Public Works Department and later the Lands Department for 12 years. He also worked in several private land development companies. He served on the Vocational Training Council's (VTC) Real Estate Services Training Board for more than 12 years, receiving a VTC Honorary Fellowship in 2009. Sr Tse was awarded the Lifetime Achiever Award by the Royal Institution of Chartered Surveyors in 2017 and a Bronze Bauhinia Star from the Government of the HKSAR in 2014.



Website :



BRE Scholars Ranked Among Top 2% of Scientists in the World

Congratulations to our colleagues on their high World level rankings, revealed by a Stanford University study. They include Prof. Albert Chan, Prof. Li Heng, Prof. Geoffrey Shen, Prof. Edwin Chan, Prof. Eddie Hui, Prof. Patrick Lam (retired), Prof. Ni Meng, Prof Zayed Tarek, Dr Daniel Chan and Dr Patrick Fong.



	Author Name	C-score*	Subject Field	Rank within field	Total authors within field
1	Chan, Albert P.C.	3.908639055	Building & Construction	28	27014
2	Li, Heng	3.90350466	Building & Construction	30	27014
3	Shen, Geoffrey Q.P.	3.414074167	Building & Construction	206	27014
4	Chan, Edwin H.W.	3.310949659	Building & Construction	276	27014
5	Hui, Eddie C.M.	3.459547718	Urban & Regional Planning	123	8522
6	Lam, Patrick T.I.	3.207020525	Building & Construction	374	27014
7	Ni, Meng	4.08796389	Energy	117	186014
8	Zayed, Tarek	3.122880835	Civil Engineering	484	42054
9	Chan, Daniel W.M.	3.198794297	Building & Construction	384	27014
10	Fong, Patrick S.W.	3.173167555	Building & Construction	415	27014

*composite indicator for career-long impact

Have a read of their profiles :



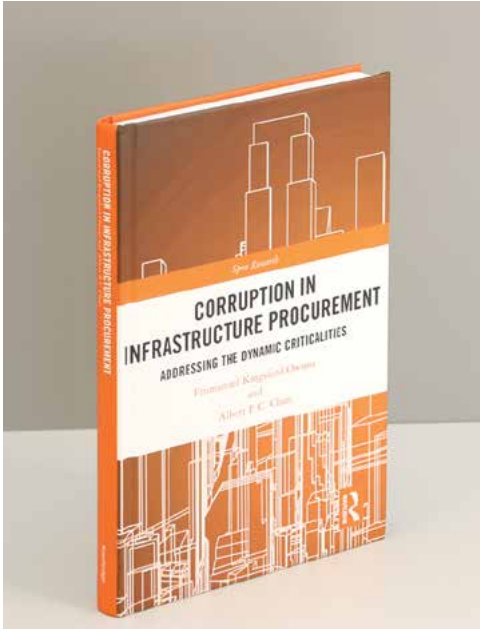
A publicly available database of 100,000 top-scientists is available providing standardized information on citations, h-index, co-authorship adjusted hm-index, citations to papers in different authorship positions and a composite indicator. There are 22 scientific fields and 176 sub-fields of scientists. Field and subfield-specific percentiles are also provided for all scientists who have published at least 5 papers. Career-long data are updated to end-of-2019. The dataset is based on the May 06, 2020 snapshot from Scopus and is updated to citation year 2019.

New Book on Corruption by Dr Owusu Kingsford and Prof. Albert Chan

Authored by Dr Owusu Emmanuel Kingsford, Postdoctoral Fellow of BRE and Prof. Albert Chan, Chair Professor and Head of BRE, a new book, ‘Corruption In Infrastructure Procurement’, was released in October 2020. Representing an extensive study on the extant constructs of corruption in infrastructure-related projects, this book, published by the Taylor & Francis Group and sponsored by the Institute of Hong Kong Surveyors, contributes to determination of the incidence and prevalence of corruption in infrastructure projects and its ultimate elimination.

Dealing with the subject of corruption has never been easy regardless of the institution, context, or discipline being studied. However, with the immense help and contributions from supranational institution experts, including the World Bank, the United Nations, and other reputable international organizations such as the Global Infrastructure Anti-Corruption Center (GIACC), most anticipated difficulties were largely overcome. These experts helped to pilot test the questions and indicators that were being examined. Dr Owusu says, “The study was successful thanks to their contributions and efforts and those of other experts from over nineteen countries who participated in the international survey.”

With the aim of making a quantitative assessment of the constructs of corruption and the activities within the procurement process of infrastructure-related works, this book serves as the first module of a series of other developing modules that intends to demonstrate how the application of extant technologies such as smart contracts and machine learning can be deployed to substitute human decision making and influences in the procurement process, enhance transparency and curb corruption and other contractual irregularities within the process.



Profile of Prof. Albert Chan :



Profile of Dr Owusu Kingsford :



DIREC

Doctor of International Real Estate and Construction (DIREC) Programme 1st Professional Doctorate in International Real Estate and Construction in HK

UNIQUE FEATURES



Enrich senior executives' theoretical and technical knowledge in international perspectives for top level advancement



Inspire senior executives with holistic thinking and analytical methods to tackle the complex influence of public policy and the global economic environment



Bring together innovative and highly practical approaches in the areas of project management, information technology, urban economic processes, urban and regional planning, etc.



Strong multi-disciplinary team of faculty members including seasoned scholars ranked among top 2% of scientists in the world and veteran professionals from the industry



PolyU Inspirational World Rankings (QS World University Rankings by Subject 2020) 19th : Engineering – Civil & Structural ; 22nd : Architecture / Built Environment



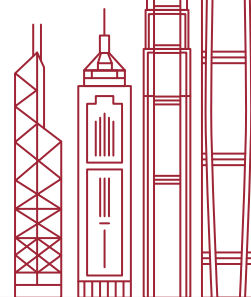
Proud History & Strong Alumni Network : Close-knit and large community of remarkable alumni produced over the past 80+years in the industry

Info Seminars

- ▶ 09 Jan 2021
- ▶ 29 Jan 2021
- ▶ 06 Mar 2021



Programme Details :



Prof. Heng Li's success in Government Fund Applications and HK Scholars Program 2020

A huge round of applause to Prof. Heng Li, Chair Professor of Construction Informatics, who received a grant of over HK\$7 Million from the Innovation and Technology Fund (ITF) and funding of over HK\$870,000- from the government's Central Policy Unit! The respective winning projects were 'A Computer Vision-enabled Digital Twin for Construction Resource and Progress Management' and 'Solving Public Housing Problem in Hong Kong by Adopting Modular Integrated Construction (MiC) to Build the Transitional House'.

Meanwhile, Prof. Li's Hong Kong Scholar candidate, Dr He Ping, was successfully selected for the Hong Kong Scholars Program 2020. In November 2020, Dr He was appointed as a Postdoctoral Fellow for two years' work on the project 'Synthesis of Structural Health Monitoring via Distributed Filter of Sensor Networks'.

We wish Prof Li every success with these projects!



Have a read of Prof. Heng Li' profile :



Prof. Eddie Hui's Honorably Appointed as Committee Chairman of EEA

Prof. Eddie Hui, Associate Head (Partnership) of BRE, says, "In addition to my earlier appointments as a member of the Government's housing committees, it gave me great pleasure to accept the appointment as the Chairman of the Practice and Examination Committee of the Estate Agents Authority. I am happy to take up this important role in serving society."

Established in November 1997 under the Estate Agents Ordinance, the Estate Agents Authority (EEA) regulates the practice of estate agency in Hong Kong, promotes integrity and competence within the industry, and facilitates the training of estate agency practitioners to enhance their standards and status for the benefit of the community.

With wide research and consultancy experience in housing estates and real estate investment and finance, Prof. Hui has served on a number of public organizations in Hong Kong; for instance, the Hong Kong Housing Authority, the Property Management Services Authority, the Town Planning Board, the Urban Renewal Authority and others. His selfless devotion to the community has always been evident.



Have a read of Prof. Eddie Hui's profile :



Awards & Achievements

Prof. Meng Ni Wrote an Invited Commentary Perspective in Science on Fuel Cells and Awarded Research Grant from National Natural Science Foundation/Research Grant Council (NSFC/RGC) Joint Research Scheme



Have a read of Prof Meng Ni's profile :



Invited by the journal Science, Prof. Meng Ni (Associate Head (Research) of BRE, PolyU) and Prof. Zongping Shao (Nanjing Tech University, China and Curtin University, Australia) published a technical commentary perspective in Science entitled "Fuel Cells that Operate at 300° – 500°C". They appraised the new contributions of those papers published in Science concerned with the proposed new mechanism for proton conduction. They also pointed out the limitations of the Science papers, so as to encourage future improvement. In addition, they discussed the future of protonic ceramic fuel cells (PCFCs) working at 300° – 500°C and the applications of protonic conductors in electrochemical water-splitting processes for hydrogen production and electrochemical ammonia synthesis.

The details of the commentary perspective can be found at:
<https://science.sciencemag.org/content/369/6500/138>

Also, Prof. Ni received a grant of around HK\$ 1.2 Million from the National Natural Science Foundation/Research Grants Council (NSFC/RGC) Joint Research Scheme. Prof. Ni's winning project is entitled "Coupling hydrogen production by high temperature electrolysis with iron-and-steel works to recover industrial waste-heat for low-carbon metallurgy". The iron-and-steel industry is an extremely important, energy demanding, and polluting industry due to the use of huge amounts of coke for reduction processes in blast furnaces. In this project, a new integrated system combining the reversible solid oxide fuel cell (RSOC) with the iron-and-steel works is proposed as a renewable source power supply. The RSOC will use the waste heat from the iron-and-steel works and the excess renewable power to produce hydrogen which will be used for direct reduction in the iron-and-steel works.

Realise Your Future of Professionalism, Innovation and Success

International Professional Recognition

Chartered Institute of Building (UK)
Royal Institution of Chartered Surveyors (UK)
Hong Kong Institute of Construction Managers
Hong Kong Institute of Housing
Hong Kong Institute of Surveyors
Hong Kong Institution of Engineers

Undergraduate Programmes:

BSc (Hons) in Building Engineering and Management
BSc (Hons) in Property Management
BSc (Hons) in Surveying



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Awards & Achievements

Dr Daniel Chan's Research Team Winning in APFPM and HKIPM Project Management Achievement Awards



Have a read of Dr Daniel
Chan's profile :



Congratulations! The research team of Dr Daniel Chan, Associate Professor and Prof. Albert Chan, Chair Professor and Head of BRE was included among the Project Management Achievement Awards (2019) of the Asia Pacific Federation of Project Management (APFPM) and the Project Management Achievement Awards (2019) of the Hong Kong Institute of Project Management (HKIPM). Amid the pandemic, they received the award certificates in July and November 2020, respectively. The winning study, 'An Exploratory Study of the Implementation of the Mandatory Building Inspection Scheme (MBIS 強制驗樓計劃) in Hong Kong' reviewed the current status of building deterioration in Hong Kong, and determined and analyzed the perceived benefits, potential difficulties, effective recommendations and the good practices involved in executing the Mandatory Building Inspection Scheme (MBIS), aimed at existing dilapidated private buildings.



Have a read of Dr Esther
Yung's profile :



Dr Esther Yung's Success in Bidding PICO Public Policy Research Project

Please join us in congratulating Dr Esther Yung, Associate Professor of BRE, on her success in bidding for a PICO Public Policy Research Project (HK\$0.38M)! The success is a reward for the great endeavours of Dr Yung's research team.

Entitled 'Effects of Indoor Environmental Quality on the Satisfaction Level of the Elderly in Residential Care Homes', the heart of the winning project is to identify the underlying indoor environmental quality (IEQ) factors associated with the satisfaction of the elderly with their residential care homes (RCHes) and their living quality. Including the two co-investigators, Prof. Edwin Chan of BRE and Dr C.K. Chau of BSE (Department of Building Services Engineering, PolyU), Dr. Yung's research team is dedicated to finding out how to improve the indoor environment of RCHes and enhance the satisfaction and quality of life of the elderly in RCHes. A mixed methods approach is used to realize their goals. The years have seen an ageing society, in Hong Kong and elsewhere and a rapidly growing demand for elderly care. Achieving a better indoor environment at RCHes is a matter of urgency. Dr Yung's years of admirable dedication to academia and society deserves rounds of applause.

Government's Central Policy Unit's Support for Dr Sun Yi

Good News! Dr Sun Yi, Assistant Professor of BRE, was successful in being awarded PICO Public Policy Research Funding of about HK\$500,000 for his project 'Effects of Environment-related Experiences on the Older Person's Well-being in Hong Kong's Double Ageing Context: A Person-environment Perspective'.

'Double Ageing' in terms of an increasing elderly population living in aged districts is a big headache for Hong Kong. With his passion for urban planning and age-friendly cities and communities, through this winning project, Dr Sun is eager to identify those socio-spatial and psychological experiences perceived to be important by Hong Kong's elderly, to assess the effects of socio-spatial and psychological experiences on well-being, and to examine the mediating effects of psychological experiences on the relationship between socio-spatial experience and well-being, and ultimately, to identify key planning strategies and improved environmental features. Well Done to Dr Sun!



Have a read of Dr Sun
Yi's profile :

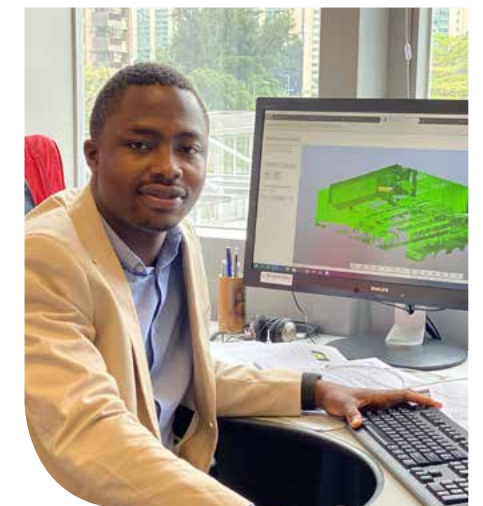


Dr Amos Darko honoured with the Green Talents Award by the German Federal Ministry of Education and Research

Huge congratulations to Dr Amos Darko, a PhD graduate and currently a Research Assistant Professor of our Department, on being honoured with a Green Talents Award in the Green Talents Competition, 2020, organised by the German Federal Ministry of Education and Research!

Dr Darko's research focused on the adoption and promotion of green building technologies in the developing world, contributing to a novel 'Implementation Strategy' in the end. In the face of the fierce competition from over 580 talents from 87 countries, Dr Darko impressed the jury by his research on a highly relevant issue especially for developing countries. More : <https://polyu.hk/rgLzZ>

Dr Darko would like to give big thanks to his supervisor, Prof. Albert Chan of BRE, for his continuous research guidance and support and for the recommendation he made in support of this great achievement.



Have a read of Dr Darko
Amos' profile :



Realise Your Future of Professionalism, Innovation and Success

Inspirational World Rankings

6th (QS Top 50 Under 50 Rankings 2021)

25th (QS Asia University Rankings 2020)

75th (QS World University Rankings 2021)

19th (QS World University Rankings by Subject 2020 - Engineering - Civil & Structural)

22nd (QS World University Rankings by Subject 2020 - Architecture / Built Environment)

Undergraduate Programmes:

BSc (Hons) in Building Engineering and Management

BSc (Hons) in Property Management

BSc (Hons) in Surveying



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Research – General Research Fund (GRF) / Early Career Scheme (ECS) awarded 2020/21

Principal Investigator	Project Title	Funding Awarded
Prof LI Heng (GRF)	The development and validation of a non-invasive tool to monitor mental and physical stress in construction workers	HK\$614,675
Dr SIU Ming Fung Francis (ECS)	Simulation-optimisation of public works programmes by the development of construction project manpower demand profiles	HK\$791,961
Dr SUN Yi (ECS)	A Move towards Regulation Flexibility and Pragmatism? Investigating State Entrepreneurialism in China's Pilot Development Zone	HK\$885,500

Funding from National Natural Science Foundation of China (NSFC)

Principal Investigator	Scheme	Project Title	Funding Approved
Prof. Edwin CHAN	General Programme	A Research on Small-medium Healthy City Space Collaborative Optimization and Governance Model	RMB580,000-

FCE* Matching Fund for External Competitive Research Grants

Principal Investigator	Project Title	Total Funding Acquired	Matching Funding Approved
Prof. Eddie HUI	Land Conveyance in Midst of State Policy Directions, Public Welfare, and Career Interests: An Empirical Study of Chinese Cities	HK\$1,064,976 (RGC GRF)	BRE: HK\$40,000 FCE: HK\$40,000
Prof. Michael YAM	A Study of a Beam-to-Beam Connection using Nitinol Shape Memory Alloy Plates and Washers Subject to Cyclic Loading	HK\$598,000 (RGC GRF)	BRE: HK\$80,000 FCE: HK\$80,000
Prof. Tarek ZAYED	Smart Noise Logger-based Leak Diagnosis System	HK\$2,313,225 (ITF-ITSP)	BRE: HK\$59,500 FCE: HK\$59,500

*Faculty of Construction and Environment, PolyU

FCE* Dean's Awards 2020

Awardee	Allocation Date / Grant Approval Date	Project Title (Funding Scheme)
Dr JoonOh SEO	1 Jul 2017	Automated Ergonomic Risk Assessment for Construction Workers (RGC Early Career Scheme)
	1 Jul 2018	Automated Fall Risk Detection Associated with Falls on the Same Level by Using Wearable Insole Pressure Sensors (RGC General Research Fund)
	1 Jul 2019	Understanding the Situation Awareness of Mobile Construction Equipment Operators through Immersive Virtual Reality Simulation (RGC General Research Fund)

*Faculty of Construction and Environment, PolyU

BRE* Departmental Research Awards 2019/20

Awards	Awardees
BRE Award for Outstanding Research Performance 2019/20	Prof. Tarek ZAYED (Professor)
BRE Award for Outstanding Achievement in Research Funding 2019/20	Prof. Albert P.C. CHAN (Chair Professor & Head of Department) Prof. Heng LI (Chair Professor)

*Department of Building and Real Estate, PolyU





Realise Your Future of Professionalism, Innovation and Success

BSc (Hons) in Surveying (SUV) JS3789

PolyU Inspirational World Rankings

- 6th (QS Top 50 Under 50 Rankings 2021)
- 25th (QS Asia University Rankings 2020)
- 75th (QS World University Rankings 2021)
- 19th (QS World University Rankings by Subject 2020 – Engineering – Civil & Structural)
- 22nd (QS World University Rankings by Subject 2020 – Architecture / Built Environment)

International Professional Recognition

- Royal Institution of Chartered Surveyors (UK)
- Hong Kong Institute of Construction Managers
- Hong Kong Institute of Surveyors

Excellent Career Prospects

- Excellent employment opportunities
- Average monthly salary for fresh graduates in 2019 : around HK\$21,000-

Generous Scholarships

- In 2019/20, over HK\$1.2 million in total for our Department's outstanding students
- Entry scholarships for high-performing HKDSE students
- Entry and post-entry scholarships as well as prizes offered by PolyU, HKSAR Government and donors on the basis of academic merits or non-academic achievements, from HK\$8,000 to HK\$40,000 each for 2020/21

Specialisation

Five disciplines (Building Surveying, General Practice Surveying, Quantity Surveying, Planning & Development, and Property & Facility Management) for students' selection

Proud History and Strong Alumni Network

- Close-knit and large community of remarkable professionals and alumni produced over the past 80+ years



bre.polyu.edu.hk



香港理工大学建筑及房地产学系

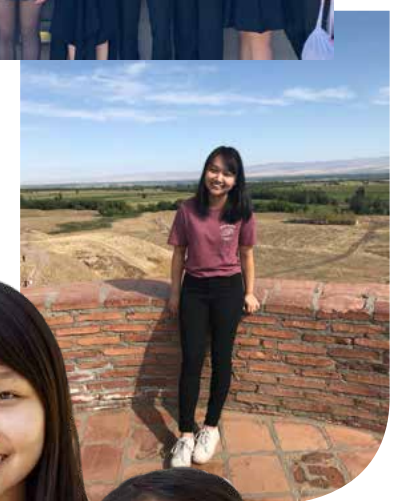


Outstanding Student of The Faculty of Construction and Environment (FCE) and The Department of Building and Real Estate (BRE) - Maggie Ng, Surveying Student

We shine because of our students' best endeavours and achievements! Join us in congratulating our surveying student, Maggie Ng Tsin Tung on receiving the 'Outstanding Student Award of the Faculty of Construction and Environment' and the 'Outstanding Student Award of the Department of Building and Real Estate'!

Maggie is very honoured to be awarded the outstanding student of the Faculty and the Department. The Awards are not only in recognition of her efforts in study, community services and global engagement, but as encouragement also for her future development. Maggie states, "The Awards strengthen my aspiration in becoming a professional and dedicating myself to society in the future. I sincerely thank the Department for all the opportunities it provided, inspiring and shaping me to become a shining student." Maggie's success in obtaining the Awards is attributable to her active participation in a series of extra-curricular activities, e.g. YMCA Volunteer Service, Global Youth Leadership Summit, PolyU Student Ambassador Scheme and her many other well-deserved recognitions, including the Reaching Out Award, Dean's Honours and GSAP Outreaching Award, during her studies.

The objective of the PolyU Outstanding Students Award Scheme is to recognise full-time final-year students who excel in both academic and non-academic pursuits during their studies. This year's Outstanding Student Awards Presentation Ceremony is tentatively scheduled for March 2021.



Awards & Achievements

Surveying Students Receiving HKIS Quantity Surveying Division Scholarship

In recognition of outstanding student performances, the Hong Kong Institute of Surveyors (HKIS) annually awards its QS scholarships to quantity surveying students graduating from bachelor, associate degree and higher diploma programmes. This year, the scholarships were bestowed upon four of our BRE surveying students. Congratulations!

On 28 October, the 2020 HKIS Quantity Surveying Division Scholarship Presentation Ceremony was held. With great applause and delight, the Presentation Ceremony was a success. There was a big turnout: including Sr Winnie Shiu (HKIS President), Sr Paul Wong (Vice-President and Past QSD Chairman), Sr Thomas Ho (Past President and Past QSD Chairman), sponsors and winning students. On behalf of BRE, Dr Patrick Fong, Programme Leader of the BSc (Hons) Surveying Programme and Mr. Kong Wai Kei, Programme Leader of the Higher Diploma in Building Technology and Management (Surveying) Programme extended warmest congratulations to our four winning students during the Ceremony. Their achievements have surely spurred the students to aim high and even further realise their potential in the future.

Winning BRE Students :



CHAN Ching Hei
HKIS QSD – Rider Levett Bucknall
Limited Scholarship

BSc(Hons) in Surveying



YEUNG Chin Kiu
HKIS QSD – TLS & Associates
Limited Scholarship



LIU Zihao
HKIS QSD – MJ Consultants
Limited Scholarship



YANG Baoyi
HKIS QSD – WT Partnership (HK)
Limited Scholarship

Higher Diploma in Building Technology
and Management (Surveying)

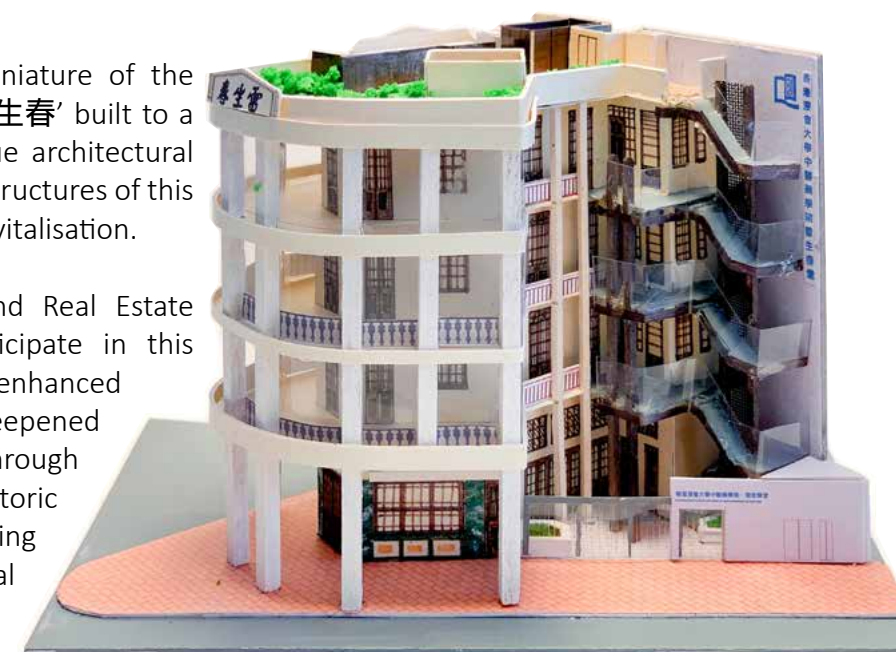


Championship Goes to Ada Lo, Surveying Student in the HKIS Maintenance and Appreciation of Historical Buildings Creativity Competition

Building Surveying Matters! The Championship went to our year-two surveying student, Ada Lo Wing Yan in the 'Maintenance and Appreciation of Historical Buildings Creativity Competition – Tiny Model (Public Category)', organized by the Hong Kong Institute of Surveyors. Ada's passion for building surveying is the key to her success in this Competition.

Ada's winning model 'Rejuvenation' is a miniature of the Grade 1 historical building 'Lui Seng Chun 雷生春' built to a 1:200 scale. It successfully shows the unique architectural features along with the internal and external structures of this historical building, both before and after its revitalisation.

"Thanks to the Department of Building and Real Estate for inspiring and building me up to participate in this Competition. The Competition has definitely enhanced my awareness of heritage conservation and deepened my understanding of the role of surveyors. Through conservation and timely maintenance, historic buildings are given a new lease of life enabling demonstrate their aesthetic and historical values to be explored and appreciated by the public. Hong Kong's heritage is undoubtedly a valuable asset that bears witness to the development of Hong Kong," says Ada. Keep up the good work!



Awards & Achievements

Maxwell Unfolding a New Adventure at Aston University

Congratulations to our PhD graduate, Maxwell on his new appointment as lecturer at Aston University in UK in July 2020!

"I am extremely grateful to announce that I have officially accepted a full-time tenure-track faculty position as a Lecturer in Construction and QS in the School of Engineering and Applied Science at Aston University, Birmingham, UK. I'm thankful to everyone who made this journey a success and excited for the next phase of my career." says Maxwell.

Dr. Maxwell F. Antwi-Afari attained both his BSc in Construction Technology and Management (First Class Honours) and MPhil in Building Technology from the Kwame Nkrumah University of Science and Technology (KNUST), Kumasi-Ghana in 2012 and 2015, respectively. Through a Postgraduate Studentship Scholarship, Maxwell obtained his PhD in Construction Information Technology in our Department (BRE) in 2019.

After his PhD, Maxwell worked as a Postdoctoral Research Fellow at BRE. He has published more than 10 SCI journal papers already and participated in the writing of competitive research grants. His stunning efforts have contributed to well-deserved accolades, including the Outstanding Student Project Award for the 2018/2019 academic year by the Hong Kong Ergonomics Society (HKES) in May 2019, the Grand Winner of the Occupational Safety and Health Best Project Scholarship for the 2017/2018 academic year organized by the statutory Occupational Safety and Health Council, Hong Kong in January 2019, the Commendation Award by the Chartered Institute of Building (CIOB) (Hong Kong) for the Outstanding Paper Award in September 2018, amongst others.



Entry Scholarship

Applicants from reputable universities with outstanding academic results (e.g. First-class honours bachelor's degree) are invited to submit applications for consideration of award of the Entry Scholarship. Details are available on <http://www.polyu.edu.hk/fce/>

Online Application

<http://www.polyu.edu.hk/study> on or before 30 April 2021 (Fri). Applications after this deadline may be considered only when places are available

Continuing Education Fund

Two subjects of each of the above first three programmes have been included in the list of reimbursable courses for Continuing Education Fund (CEF) purposes

Live Info Seminars / Enquiries

CRE

9/1/2021: 3-4pm, Online
6/3/2021: 3-4pm, Online
3400 8121 (Miss Mak)
ka-man.mak@polyu.edu.hk

CLDR

9/1/2021: 3-4pm, Online
6/3/2021: 3-4pm, Online
3400 3819 (Ms Yap)
connie.yap@polyu.edu.hk

PM

9/1/2021: 3-4pm, Online
6/3/2021: 3-4:30pm, Online
3400 8122 (Miss Wong)
queenie.wong@polyu.edu.hk

DIREC

9/1/2021: 3-4pm, Online
29/1/2021: 7-8pm, Online
6/3/2021: 3-4pm, Online
3400 3819 (Ms Yap)
connie.yap@polyu.edu.hk

Taught Postgraduate Programmes in Construction and Real Estate Sector

Applications are now invited for admission during the 2021/2022 academic year for both the full-time and part-time taught postgraduate programmes for relevant professionals working in the construction and real estate sector.

MSc / PgD in Construction and Real Estate (CRE)

建築及房地產學 理學碩士學位/深造文憑
(Programme Code 04001)

MSc / PgD in Construction Law and Dispute Resolution (CLDR)

建築法及爭議解決學 理學碩士學位/深造文憑
(Programme Code 04001)

MSc / PgD in Project Management (PM)

項目管理 理學碩士學位/深造文憑
(Programme Code 04001)

Doctor of International Real Estate and Construction (DIREC)

國際房地產及建築博士
(Programme Code 32109)
(part-time programme : normally 3 years; no full-time mode)

Inspirational World Rankings

- 6th (QS Top 50 Under 50 Rankings 2021)
- 25th (QS Asia University Rankings 2020)
- 75th (QS World University Rankings 2021)
- 19th (QS World University Rankings by Subject 2020 - Engineering - Civil & Structural)
- 22nd (QS World University Rankings by Subject 2020 - Architecture / Built Environment)



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Realise Your Future of Professionalism, Innovation and Success

BSc (Hons) in Building Engineering and Management (BEM) JS3791

PolyU Inspirational World Rankings

- 6th (QS Top 50 Under 50 Rankings 2021)
- 25th (QS Asia University Rankings 2020)
- 75th (QS World University Rankings 2021)
- 19th (QS World University Rankings by Subject 2020 – Engineering – Civil & Structural)
- 22nd (QS World University Rankings by Subject 2020 – Architecture / Built Environment)

Generous Scholarships

- In 2019/20, over HK\$1.2 million in total for our Department's outstanding students
- Entry scholarships for high-performing HKDSE students
- Entry and post-entry scholarships as well as prizes offered by PolyU, HKSAR Government and donors on the basis of academic merits or non-academic achievements, from HK\$8,000 to HK\$40,000 each for 2020/21

International Professional Recognition

- Chartered Institute of Building (UK)
- Hong Kong Institute of Construction Managers
- Hong Kong Institution of Engineers

Promising Career Prospects

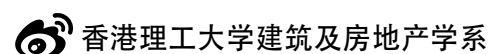
- Excellent employment opportunities
- Average monthly salary for fresh graduates in 2019: above HK\$23,000-

Proud History and Strong Alumni Network

- Close-knit and large community of remarkable professionals and alumni produced over the past 80+ years



bre.polyu.edu.hk



CIOB (HK) Outstanding Student Awards – Martin Yiu, Building Engineering and Management Graduate

Please join us in congratulating Martin Yiu Man Kit, our Building Engineering and Management (BEM) graduate, on receiving a 'CIOB (HK) Outstanding Student Award 2019/2020' in August 2020!

With a very long history, the Chartered Institute of Building (CIOB) (HK) advocates the application of good project management practices as an inspiring management strategy for ambitious construction management professionals. Since the launch of its Outstanding Student Awards scheme, many years ago, the CIOB (HK) has made Annual Awards with the aim of promoting excellence in construction project management. Nominations from relevant universities and institutes are welcome. In July 2020, following the nomination by Prof. Albert Chan, Head of BRE, the CIOB (HK) assessed Martin's final dissertation against its set of strict criteria. Martin's outstanding work, pertinent to construction project management, is responsible for his success in obtaining the Award.

Martin, a fresh graduate this year, says "I am very happy and honoured to have obtained an Outstanding Student Award from the CIOB (HK). This accolade is not only recognition for my study efforts but also an encouragement to keep working hard. I will seek self-improvement and be a better self in future. Thanks again for the affirmation and selecting me as one of the Awardees!"





PASS Workshop Series Throughout 2020

Improved the understanding of industrialised construction and its prospects in the Belt and Road Initiative Countries



Summer Programme

6/8

It was fantastic to welcome students of secondary schools to our First-ever Online Summer Programme, through the air, on 6 August 2020. A wonderful pack of programme introduction, student's sharing, research demonstrations, interview tips and industrial projects helped participating students get a feel of studying at BRE and more ideas for their study plans.



BRE Departmental Orientation Programme

31/8

Congratulations to the students on embarking upon a fruitful and important adventure with us! Studying with BRE is part of their journey towards a contributing future of professionalism, innovation and success.



DIREC Orientation & Teaching

19/9 & Semester 1

A new move is represented by the official inauguration of the Doctor of International Real Estate and Construction Programme, the first professional doctorate in international real estate and construction in HK!



Info Day

10/10

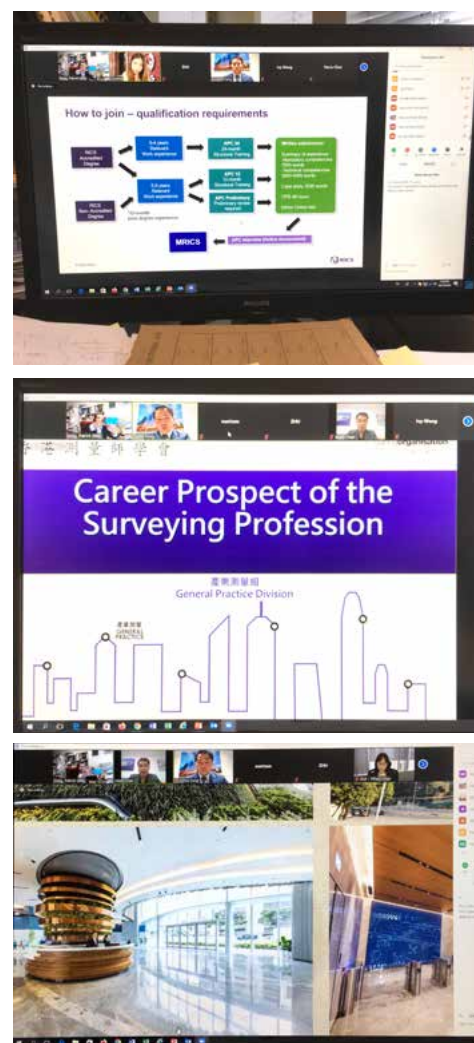
Through the range displayed of our admissions and programme activities, many students and parents have found the path to a professional career with well-rounded competencies suiting the construction and real estate industry in Hong Kong and beyond.



Webinars with BRE for International & JEE Mainland Students

7/10 & 26/11

Studying your undergraduate degree abroad may be one of your dreams? Hong Kong is certainly a desirable study destination. BRE welcomes international students. Our Live Info Seminars could have helped to recruit.



RICS and HKIS Webinar for Surveying Students

29/10

Presentations about career prospects by Ms Suet Tam from RICS and Sr Tiffany Chan, Sr Cyrus Fong and Sr Mark Chan from HKIS, followed by sharing of Dr Patrick Fong and Dr Ivy Wong from BRE.



Online Joint School Mock Interview Day

14/11

Students from various secondary schools had a taste of admission interviews with our admissions officers.



In-house Making of Outstanding Graduates' Sharing Videos

14 & 18/11

A big thank-you to Ir Phyllis Chen, Project Manager, Gammon Construction Ltd. and Ir Nathaniel Wong, Project Manager (Construction), Henderson Land Development Co. Ltd. for their inspiring sharing.





Online Info Seminar on BRE UG Programmes 28/11

Selecting the most suitable undergraduate programme may be a big struggle for students of secondary schools. There is no better way to gain insights than by joining our Info Seminar.



Joint Webinar for ICCEPM and IPC 7-8/12

International Conference on Construction Engineering and Project Management (ICCEPM) was a great success in Hong Kong, as a joint conference of ICCEPM 2020 & International Conference on Innovative Production and Construction (IPC) 2020.

- o 16 keynote speakers
- o 94 paper presentations
- o about 300 guests from all around the world



Day 1 World-Renowned Keynote Speakers* include:	
<ul style="list-style-type: none"> Prof. Burcu AKINCI Carnegie Mellon University, USA Prof. Mohamed AL-HUSSEIN University of Alberta, Canada Prof. Chinyan ANUMBA University of Florida, USA Prof. Ioannis BRILAKIS University of Cambridge, UK Prof. Dongping FANG Tsinghua University, China Prof. Carl HAAS University of Waterloo, Canada Prof. Timo HARTMANN TU Berlin, Germany Prof. Inhan KIM Kyung Hee University, Korea 	<ul style="list-style-type: none"> Prof. Young-hoon KWAK George Washington University, USA Prof. Kincho LAW Stanford University, USA Prof. Ghang LEE Yonsei University, Korea Prof. Sang-hyun LEE University of Michigan, USA Prof. Koshi VARGHESE IIT, Madras, India Prof. Guangbin WANG Tongji University, China Prof. Xiangyu WANG Curtin University, Perth, Australia Prof. Nobuyoshi YABUKI Osaka University, Japan



Great Success of ICCEPM & IPC 2020

The Department of Building and Real Estate (BRE) of PolyU, partnering with the Hong Kong University of Science and Technology, was successful in organising the Joint Webinar for the 8th International Conference on Construction Engineering and Project Management (ICCEPM 2020) and the 8th International Conference on Innovative Production and Construction (IPC 2020) on 7 and 8 December 2020.

In line with the objectives of ICCEPM and IPC over the years, on the theme 'Towards Advancement in Technologies and Processes for Smart Buildings and Construction', this year's Webinar provided an ideal platform for researchers and practitioners from all around the globe in the architecture, engineering, construction and operations (AECO) industry to report on the latest developments, ideas and applications stemming from innovative research activities in the areas of Smart Buildings and Construction Engineering and Management. The webinar was a great success. With 94 paper presentations, 16 keynote speakers and about 300 guests from all around the world, the participants inspired one another and made proactive road maps for future research developments.

Special thanks are due to everyone for contributing to its success. Your participation created many highlights. Behind the scenes, the committee members including Prof. Albert Chan, Prof. Geoffrey Shen, Prof. Heng Li, Dr JoonOh Seo, Dr Hung Lin Chi, Dr Francis Siu, Dr Minhyun Lee, Prof. Tarek Zayed, Prof. Meng Ni, Prof. Patrick Lam and Dr Hsi Hsien Wei of BRE feel honoured to have been part of this remarkable chapter.

Entry Scholarships

We wish to express our heartfelt gratitude to the donors who have provided entry scholarships to our BRE freshmen, directly through our department.

Our thanks go to the donors of the following Entry Scholarships for 2019/20:

1	China Real Estate Chamber of Commerce Hong Kong and International Chapter (CRECCHKI) Scholarship
2	Ng Wing Hong Entry Scholarship
3	Prof. Francis S.K. Lau Scholarship
4	Prof. Francis S.K. Lau Scholarship (2013)
5	Zhong Hua Construction Foundation Scholarship

If you are interested in receiving more information on the establishment of Entry Scholarships in BRE, or other incentives for BRE students, we are more than happy to receive your ideas through the email: bsjanlau@polyu.edu.hk.

Work-Integrated Education (WIE)

Work-Integrated Education (WIE) is a credit-bearing scheme in which students learn to connect classroom theory with practical workplace applications through on-the-job work placements.

Through this scheme, we hope that employers will have a good experience in taking our Surveying/Property Management/Building Engineering and Management students as summer or part-time interns, and find that WIE is truly a good platform, both for enhancing the quality of students and for fostering a potential manpower pool for the company and indeed of value to the whole industry.

For more information on the BRE-2021-WIE Recruitment Exercise, and to let us know of your interest in recruiting, please email to: bsjanlau@polyu.edu.hk.

In 2019/20, BRE students completed their WIE requirement mainly with Hong Kong based industry companies and organizations. Special thanks are expressed to the companies which supported WIE in 2019/20: Gammon Construction, Sanfield (Management) Limited, Able Engineering Holdings Limited, Rider Levett Bucknall Limited, the Urban Renewal Authority, and DCL Consultants Limited.

More :



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Generous Scholarships

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- Entry and post-entry scholarships as well as prizes offered by PolyU, HKSAR Government and donors on the basis of academic merits or non-academic achievements, from HK\$8,000 to HK\$40,000 each for 2020/21

Undergraduate Programmes:

BSc (Hons) in Building Engineering and Management

BSc (Hons) in Property Management

BSc (Hons) in Surveying



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香港理工大学建筑及房地产学系

THE HONG KONG
POLYTECHNIC UNIVERSITY
香港理工大学

DEPARTMENT OF
BUILDING & REAL ESTATE
建築及房地產學系
INTERNATIONAL • COLLABORATIVE • CONSTRUCTION

Dr Ivy Wong's Research Output

Dr Ivy Wong, Assistant Professor of BRE has been very successful in securing competitive research grants both locally and internationally. Between 2015 and 2019, she secured four external research grants as Principal Investigator, with a total funding amount of approximately HK\$3,330,000. These projects include one Early Career Scheme (ECS) project on rural shareholding cooperatives in China, one General Research Fund (GRF) project on village redevelopment, and two Ford Foundation projects on community governance in peri-urban China. The second Ford Foundation (2019-2020) project successfully received a matching grant from the Research Grants Council of the Hong Kong University Grants Committee, which supports Ivy's comparative studies of community planning and governance in China and the West. Based on these projects, Ivy has linked her research output into a set of inter-related development planning issues, including urban-rural sustainable development planning, rural property rights social equity reforms, participatory community planning for capacity building, and countryside conservation. Such issues are of enormous consequence not only for China but for other regions and nations in the midst of their urban transitions.

Ivy's research findings have been widely published in top international academic journals, such as International Journal of Urban & Regional Research, The China Quarterly, Urban Studies, Cities, Journal of Urban Planning and Development, and Journal of Urban History. As the founder and convener of the China Innovative Urban-rural Governance (CIURG) Research Network, Ivy has organized many symposia, field visits, and workshops, in providing a supportive context for the advance of planning governance theories, a platform for intellectual debate and research collaboration within the field of urbanization and local governance transformation.



CIURG Symposium 2018 on China's Rural Regeneration and Innovative Grassroots Governance: Theory and Practice



Field Visits and Organization of Community Activities in Frankfurt



Field Visits and Organization of Community Activities in Beijing

Have a read of Dr Ivy Wong's profile :



Dr Yu Yantao's Project on 'Monitoring Physical Fatigue with Computer Vision and Smart Insoles for Construction Workers'

Construction worker fatigue may result in work-related injuries and accidents on site. Indeed, the construction industry in many countries and regions, including Hong Kong, has longstanding problems deriving from ageing workforces. To promote a sustainable workforce, it is critical to monitor physical fatigue levels among construction workers in order to then mitigate them.

Dr Yu Yantao, Research Assistant Professor of BRE, has developed a novel non-intrusive method for monitoring construction worker fatigue by combining computer vision technology with the wearing of smart insoles [1–3]. Specifically, a computer vision-based 3D motion capture algorithm was developed to model motion using an RGB camera [4]. Further, smart insoles capable of measuring the support reaction forces acting on feet were applied for monitoring purposes[3]. By fusing the two types of data, biomechanical models will be developed and employed to estimate worker physical fatigue levels. Field experiments validated the feasibility of the method (Figure 1&2).



Have a read of Dr Yu Yantao's profile:



Please refer to the [video summary](#) for a quick overview of Dr YU's PhD study.



Figure 2. Comparison of the joint workload among construction trades (L/R denotes left/right; and E/S/K/H denotes elbow/shoulder/knee/hip)

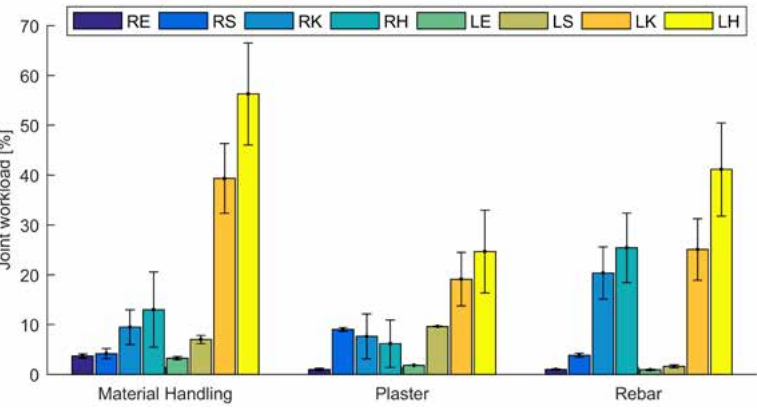
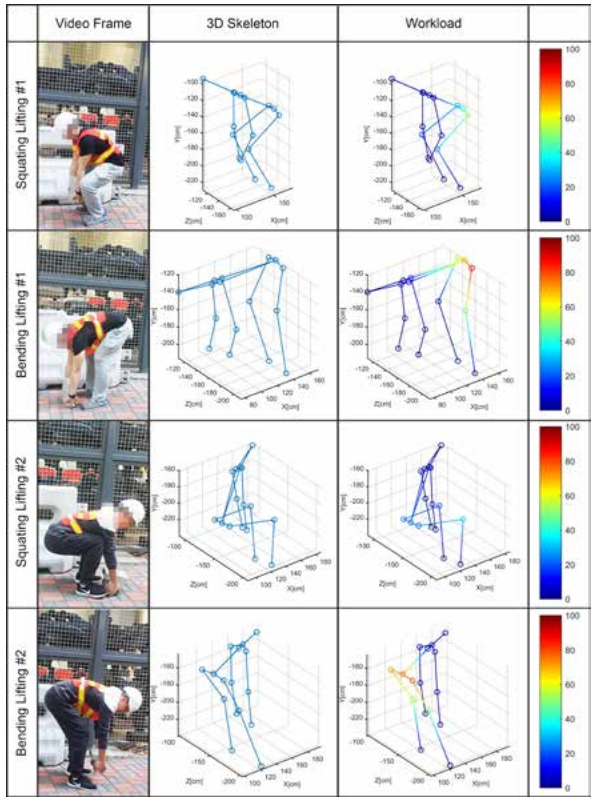


Figure 1. Visualizing construction worker physical fatigue assessments with the proposed methods



References:

- [1] Y. Yu, X. Yang, H. Li, X. Luo, H. Guo, Q. Fang, Joint-Level Vision-Based Ergonomic Assessment Tool for Construction Workers, Journal of Construction Engineering and Management. 145 (2019) 04019025. doi:10.1061/(ASCE)CO.1943-7862.0001647.
- [2] Y. Yu, H. Li, W. Umer, C. Dong, X. Yang, M. Skitmore, A.Y.L. Wong, Automatic Biomechanical Workload Estimation for Construction Workers by Computer Vision and Smart Insoles, Journal of Computing in Civil Engineering. 33 (2019) 04019010. doi:10.1061/(ASCE)CP.1943-5487.0000827.
- [3] Y. Yu, H. Li, X. Yang, L. Kong, X. Luo, A.Y.L. Wong, An automatic and non-invasive physical fatigue assessment method for construction workers, Automation in Construction. 103 (2019) 1–12. doi:10.1016/j.autcon.2019.02.020.
- [4] Y. Yu, H. Li, J. Cao, X. Luo, Three-dimensional working pose estimation in industrial scenarios with monocular camera, IEEE Internet of Things Journal. (2020) 1–1. doi:10.1109/JIOT.2020.3014930.

Prof. Liu Guiwen 劉貴文
Dean, School of Management Science and Real Estate, Chongqing University, China

Current Research Areas:

- o Urban development and renewal
- o Sustainable construction management
- o Real estate
- o Informatization and smart city

Graduate Year in PolyU

2003

PhD Supervisor in BRE, PolyU

Prof. Geoffrey Shen

PhD Project Title:

Benchmarking the Best Value Management Practice in China's Construction Industry

My PhD study at BRE was an invaluable experience in my life. The Department provided me a totally new platform on which to understand the world outside Mainland China, when I was young. What I learned in BRE encouraged me to fearlessly explore new possibilities in different places, enabled me to face new challenges with confidence and to break the boundaries of limitation over and over again. In BRE, my supervisor Prof. Geoffrey Shen is my role model. His encouragement is the strength that has led me to pursue the value of life consistently. Teachers and friends in BRE have lent their kind support to me. My PhD work yielded the benefits of creative thinking within BRE's strong research culture, providing me some strategic vision, innovative insights and new solutions for my career. Also, the 'red bricks' spirit of PolyU has inspired me to contribute to the well-being of the community, the nation and the world.



Have a read of
Prof. Liu Guiwen's profile :



Vice director, National education steering committee of engineering management, China.



MAJOR ACHIEVEMENTS



Realise Your Future of Professionalism, Innovation and Success

BSc (Hons) in Property Management (PMT)

JS3442

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International Professional Recognition

- Hong Kong Institute of Housing
- Royal Institution of Chartered Surveyors (UK)
- Hong Kong Institute of Surveyors – General Practice Division and Property and Facility Management Division

Excellent Career Prospects

- Excellent employment opportunities, e.g. real estate asset management, business valuation and investment, facility management, property management, leasing and marketing, etc.
- Average monthly salary for fresh graduates in 2019 : around HK\$19,000-

Proud History and Strong Alumni Network

- Close-knit and large community of remarkable professionals and alumni produced over the past 80+ years



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f i y HKPolyUBRE

香港理工大学建筑及房地产学系

THE HONG KONG
POLYTECHNIC UNIVERSITY
香港理工大学

DEPARTMENT OF
BUILDING & REAL ESTATE
建築及房地產學系
INTERNATIONAL • COLLABORATIVE • CONSTRUCTION

Prominent BRE Research Graduates

Prof. Lu Wilson 呂偉生

Professor, Department of Real Estate and Construction,
Faculty of Architecture, The University of Hong Kong

Current Research Areas:

- Construction Management with three directions:
- o International construction: Competitiveness, strategic management, procurement innovation, and corporate social responsibility;
 - o Construction informatics: Building Information Modelling (BIM), smart construction, blockchain, and big data; and
 - o Urban environmental management: Management, economics, and public policies.

Graduate Year in PolyU

2006

PhD Supervisor in BRE, PolyU

Prof. Liyin Shen

Have a read of Prof. Lu Wilson's profile :



PhD Project Title:

A System for Assisting Contractor in Assessing and Improving Competitiveness

BRE provided me with an excellent platform to freely explore and find my path to success in academia. The well-designed courses and rigorous research training nurtured my independence and proficiency in research. They also developed strong analytical and critical thinking skills, which benefited my later work as an individual researcher. There have been numerous seminars and workshops delivered by world-renowned speakers in the Department. These offered unique chances to catch up with the leading research in the field and become connected with many global "academic stars." During my PhD study, with financial support from scholarships, I was able to attend

two international conferences, in which I presented my study findings and engaged in high-level debates to refine my research ideas. It was these opportunities that built up a professional network which will have influential impact on my future research. BRE's real 'treasure' consists of selfless academics, who are always willing to give students insightful advice and share their experience of how to pursue an academic career. All in all, my study at BRE was more than just a degree, but a fruitful and enjoyable journey to unleash my potential, to improve myself, and to prepare for the challenges ahead.

Ranked as top 1% scholars worldwide by Clarivate Analytics from 2017-2020 (<http://hub.hku.hk/local/top1pc/top1pc.jsp>)

Had a great number of high-impact publications, including 10+ books and book chapters, 120+ journal papers, and 100+ conference papers (<https://fac.arch.hku.hk/wilson/research-publications/>)

Serving as the Chairman of the Chinese Research Institute of Construction Management (CRIOCM).

Serving as an editor of International Journal of Construction Management, published by Taylor & Francis. [2 editors in total]

Won individual and supervision awards, such as:

- Faculty Research Output Prize 2019, awarded by the University of Hong Kong.
- Faculty Knowledge Exchange Award 2018, awarded by the University of Hong Kong.
- Outstanding Young Researcher Award 2015, awarded by the University of Hong Kong.
- Young Innovator Award 2015, organized by Construction Industry Council.
- The Recognition of Dedication and Excellence in the Research and Development Work, 2012, awarded by the Hong Kong Housing Authority.
- 2nd Prize of the Advanced Technology Award (重慶市科學技術獎), awarded by The Chongqing Government, China, 2012.
- Supervision awards:
 - Gold Award of the Hong Kong U-21 RFID Awards, 2010, organized by GS1 Hong Kong.
 - Gold Award of the Hong Kong U-21 RFID Awards, 2011, organized by GS1 Hong Kong.

- 1st Prize of the 5th Innovation Competition in Construction Engineering and Management (ICEEM), 2012, jointly organized by Tsinghua University and Gammon Construction Ltd.
- 2nd Prize of the 8th Innovation Competition in Construction Engineering and Management (ICEEM), jointly organized by Tsinghua University and Gammon Construction Ltd.

Won a significant number of competitive local research grants, like:

- Hong Kong Innovation and Technology Fund (ITF) 2020-2021 Project title: "BIM Square": Blockchain and i-Core-enabled Multi-stakeholder Building Information Modelling Platform for Construction Logistics and Supply Chain Management in Hong Kong. HK\$10.36m. 24 months. Project Coordinator (PC)
- Hong Kong Environment and Conservation Fund (ECF) 2019-2020 Project title: Big data-based "AI inspector" for gauging inert contents at the off-site construction waste sorting facilities in Hong Kong. HK\$485,000. 24 Months. PI.
- The Government Policy Innovation and Co-Ordination Office (PICO) Public Policy Research (PPR) Funding Scheme 2018-19 Project Title: "Finding the Needles in a Haystack": Identification of the Illegal Dumping of Construction Waste Using Big Data. HK\$ 447,350. 18 Months. PI.
- The Government Policy Innovation and Co-Ordination Office (PICO) Strategic Public Policy Research (SPPR) Funding Scheme 2018-19 Project Title: Boosting Construction Waste Material Sharing in the Guangdong- Hong Kong-Macao Bay Area. HK\$2,902,000. 36 Months. PC.
- Hong Kong Research Grants Council (RGC) General Research Fund (GRF) 2017-18 Project Title: The causal effects of green building certification on construction waste minimisation: triangulating 'big data' with 'thick data'. HK\$534,559. 36 months. PI.

MAJOR ACHIEVEMENTS

Prominent BRE Research Graduates

Prof. Zhang, Xiaoling 張曉玲

Professor, Department of Public Policy,
The City University of Hong Kong

Graduate Year in PolyU

2010

PhD Supervisor in BRE, PolyU

Prof. Shen Li Yin

Current Research Areas:

Xiaoling Zhang's research focuses on smart city, sustainability science and resource management, behaviors studies (e.g., pro-environmental behaviors), and political economics of environmental studies and energy studies. She also works predominantly with macro-level dynamics in sustainable urbanization, regional and neighborhood change, land use change, urban socio-spatial restructuring, informal and formal policy regime, governance and the interactions between them. A few other research highlights can be found below:

- o Housing and Urban studies
- o Environmental studies
- o Micro-level management in real estate enterprises/homebuilders/ACE companies
- o Competitiveness for real estate developers/home builders
- o Macro-level dynamics in urbanization, housing policy, urban land use planning, gentrification and urban redevelopment and the interactions between them

PhD Project Title:

A Study to the Competitiveness of Real Estate Development Enterprises in China

My academic trajectory & interests have been greatly shaped by my experience at The Hong Kong Polytechnic University (PolyU), where I studied construction management & real estate in the Department of Building & Real Estate (BRE). In the Department, I was able to not only further pursue my interest in construction management & real estate studies, but also expand my interests in urban development and environmental studies. BRE's strong collaborative environment and ethos of transdisciplinary research provided me with rigorous research vision and skills. My PhD study has also helped me develop a multidisciplinary & critical perspective.

At University level, her academic performance had led her to win a few awards, including the recipient of the President Award (twice since she joined CityU) and Outstanding Research Award for Junior Faculty at University level (only two awardees among all the CityU faculties). Her h-index, as reported in her dossier, was 43 from Scopus (with total citations 5777). Her successful rate in bidding GRF funding was considered good, having secured 3 GRF projects in the past 7 rounds. Most impressive of all is her successful rate in bidding NSFC funding, having 3 NSFC projects in the past 4 rounds. She won the first ever Key National Natural Science Foundation Project (as leading PI) in CityU's history.

Internationally, Prof. Zhang was awarded with 2018 WCC Special Recognitions Commemorative Diploma by the 35th World Cultural Council. Working alongside with Editor-in-Chief Professor Thomas ELMGVIST from Stockholm University, and four other Associate Editors from the US, Australia and South Africa, she is the only scholar from an Asian institution chosen for the role. Other editorial engagements include serving currently as Co-editor-in-Chief of Sustainable Earth, BMC, Springer Nature; Associate Editor of Land Use Policy, ELSEVIER (with impact factor of 3.682, an A+ grade journal); Associate Editor of Developments in the Built Environment, ELSEVIER. She delivered at least 20 keynote presentations at international & local conferences since 2012.



Have a read of Prof. Zhang, Xiaoling's profile :



MAJOR ACHIEVEMENTS

People

Warmest Welcomes to New Colleagues!



Dr Minhyun Lee
Assistant Professor (Construction & Real Estate Management)



Teaching areas : project management and construction engineering management

Research interests : smart and sustainable building management, building energy management, rooftop solar photovoltaic (PV) adoption, virtual reality (VR) application, and energy policy

"I am very excited to start my new career at PolyU and join the BRE family as an Assistant Professor. With all the fabulous fellow colleagues, I would love to add more value to research and teaching in BRE which will further contribute to the development and diversity of the department. As a member of BRE, I also look forward to engaging in various opportunities for advancing the research area of smart and sustainable building management."



Dr Tanya Tan
Assistant Professor (Urban Sustainability Policy)



Teaching areas : design conversion and adaption, urban planning, and research methods

Research interests : sustainable urban development, urban microclimate and thermal comfort, design and human well-being

"I am very honoured to join the BRE family. I hope to further develop myself in this friendly and stimulating environment. I can't wait to work with all the outstanding colleagues here in the department, and I am very eager to meet our students in class!"

Warmest Welcomes to New Colleagues!



Dr Jackie Yang
Research Assistant Professor (Urban Sustainability Policy)



Teaching areas : building maintenance

Research interests : construction safety and city resilience

"I have been studying and working in the Department of Building and Real Estate (BRE) for over eight years, during which my role has changed from PhD student, to research personnel and now to academic staff member. BRE creates a very favourable environment for applied research that can make a real impact on the industry and the community at large. I look forward to working with my great colleagues and students and undertaking academic research useful to society."



Dr Yu Yantao
Research Assistant Professor (Construction & Real Estate Technology)



Teaching areas : information management for construction and real estate, construction for better living

Research interests : smart construction technologies, occupational safety and health

"It is exciting to join the Department of Building and Real Estate (BRE) as a Research Assistant Professor. Excellent colleagues, talented students, and a warm atmosphere make BRE a fantastic place to start my academic career. My research focuses on smart construction, which is an emerging important research and development direction, both locally and internationally. I look forward to forging collaborations with colleagues in conducting world-leading research and providing quality teaching to equip BRE students with multidisciplinary knowledge for the digital future of the construction industry."

A Big Thank-you to Retired Colleagues!



Dr Barbara Leung
Lecturer

Since 1999, Barbara has been a much liked, always active colleague in BRE, occupying different roles from that of research staff member to teaching staff member. In her capacity as a lecturer, she much enjoyed every moment of teaching and interacting with students, entailing always a source of inspiration to them to an exceptional degree. Barbara, with Prof. Geoffrey Shen, was central to the 2001-2010 PolyU experimental venture into on-line course teaching involving several volunteer departments. We will miss Barbara's laughter and ready smile.

"Working in the PolyU BRE for more than 20 years, I have mixed-feelings when approaching the retirement date. This is a place where I learnt, worked and contributed, which brought me a lot of unforgettable memories. I treasure the friendships that I made in the Department over those years and the students who have become good friends now. I would also like to take this opportunity to send my thanks to those who have given me help whenever I encountered difficulties and comforted me when I experienced ups-and-downs. Lastly, my best wishes always go to the Department. God Bless you all!" says Barbara.



Ms Gracie Ip
Clerk

For 39 years, Gracie has served cheerfully and reliably in the General Office in support of teaching and research. Her loyalty and devotion is highly appreciated. She has always been one of those people who are easy to relate to and who treated all who dealt directly with her, with care and understanding. We sincerely thank Gracie for the huge contribution she has made over the years to BRE, much of it unmeasurable, and that is also invaluable to General Office.



Mr. Francis Lo
Technician

Francis shares, "It is amazing to think I have worked in PolyU for over 30 years! The main reason for that, I believe, it is the people in BRE. I had been an architectural draughtsman in the building industry for more than 5 years before I entered to PolyU. At BRE, I worked, studied and finally graduated. I was at a crossroads to think if I should continue to stay or accept a better paid job elsewhere in industry after my graduation. Lastly, I made up my mind to stay because of the PEOPLE in BRE."

"The people in BRE are kind, helpful, cooperative, full of enthusiasm, no class discrimination. Everyone there gets along well. It is hard to say goodbye as I miss everyone in BRE. My life in BRE is filled with happiness, no sadness and tear but only smiles and laughter. May I wish BRE all success in teaching and research. Prosperous and continue blooming. Thank you." adds Francis.

Those comments made by Francis accurately sum up the collegiate and warm type of person he is. His technical work was beautifully done. We are extremely grateful to Francis for his dedication to BRE.

Student Ambassadors

PolyU Student Ambassadors

It was with great pleasure that students Angle Lam Ka Ki from our Property Management Programme and Maggie Ng Tsin Tung and Alex Wong King Ho from our Surveying Programmes were appointed as this year's PolyU Student Ambassadors. These cheerful and inspiring students feel genuinely honoured and are excited in taking up the role of promoting the University to secondary school students and the public through a wide variety of outreach activities. The Academic Registry has been running the PolyU Student Ambassador Scheme for 19 years.



"Maggie says, "It is my great honour to be one of the student ambassadors and represent PolyU to share my university life to secondary school students during school visits. In the process of introducing PolyU and solving students' enquires, I feel pride in being part of the ambassador team to contribute to PolyU. We come from different departments, have become good friends, and created many unforgettable memories together, which further enlivened my university life. I hope I can retain my commitment as an ambassador even after graduation."

"Alex says, "The precious experience of acting as a student ambassador has offered me myriads of golden opportunities to achieve personal growth in terms of leadership and communication skills through various PolyU promotional events. I am so glad to have developed a sense of belonging to PolyU and put the motto "to learn and to apply, for the benefit of mankind" into real practice. Since "today's youth is tomorrow's future", I hope that I can embrace the future with a positive attitude and bring the knowledge gained from the experience of being a SA to contribute to society."



"Angel says, "I am honoured to be selected as one of the PolyU student Ambassadors this academic year. Choosing BSc (Hons) in Property Management as my undergraduate degree programme is no doubt a great option. The Department of Building and Real Estate creates the learning environment I need, including both theoretical and practical exposures. In addition, the spirit, pride, as well as traditions of PolyU are the elements that I love. Besides the academic knowledge I am taught, I am glad that the PolyU programme provides me with a balanced and all-round educational experience. All in all, I am grateful that I am a member of the PolyU community. Being able to learn, study, and explore in such a beautiful and lovely campus is an unforgettable once-in-a-lifetime experience for me."



Giving

Facing challenges across the globe, now more than ever, we continue to pursue excellence through our innovative education, application-oriented research and strong global connections.

Your generosity will certainly have a positive and profound impact on the development of our Department and the growth of our students. With your giving, we will build on our strengths to transcend boundaries, in the hope of being an ideal place for advancing knowledge and inspiring our students, tomorrow's leaders, to succeed in building a sustainable city.

You can make your donation via the QR Code below or by printing and sending the form below to The Department of Building and Real Estate, ZS726, South Tower, 7/F, Block Z, The Hong Kong Polytechnic University (by post), bscyung@polyu.edu.hk (by email) or (852) 2764 5131 (by fax). The information you provide will be used in connection with this appeal only. To find out more, please contact us at 2766 5815.

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To unlock more opportunities for the future



THE HONG KONG
POLYTECHNIC UNIVERSITY
香港理工大學



Date
9 January 2021 (Sat)

Time
4:00pm – 5:30pm

Venue
Online Mode

Medium
English

Fee
Free of Charge

Closing Date for Registration
6 January 2021 (Wed)

All interested are welcome.



(Programme leaflet)



(Enrollment e-form)

Introduction to 'Doctor of International Real Estate and Construction Programme' cum Distinguished Talk on 'Real Estate Industry Professionals - A Journey on the Industry Development and What's needed for the Future'

We proudly introduce 'Doctor of International Real Estate and Construction Programme' (DIREC), the FIRST professional doctorate in real estate and construction in Hong Kong, to senior executives with more than 8 years of experience in the industry. DIREC will provide senior executives with a genuinely innovative professional development experience to enrich their theoretical and technical knowledge, develop their management and leadership skills, and equip them with a fresh mindset to fulfill top management roles in the modern and ever-competitive real estate and construction market.



Speaker:

Dr. Charles Lam, DBA CFA FRICS

- Permanent Honorary President, China Real Estate Chamber of Commerce Hong Kong and International Chapter (CRECCHKI)
- Adjunct Professor, PolyU's School of Accounting and Finance

About the Speaker:

Dr. Charles Lam joined Baring Private Equity Asia in 2011 as Managing Director, Real Estate with primary focus in Greater China real estate investments. A veteran in the industry since the early 90s, Dr. Lam was previously the Managing Director, Greater China of Pramerica Real Estate Investors (PREI) where he opened its Hong Kong office in 2007. During his 4-year stay with PREI, Dr. Lam has completed over US\$1 billion of real estate investments, refinancing, and disposition projects in China and Hong Kong.

Dr. Lam was formerly the Director, Head of Real Estate Investment of China Ping An Trust based in Shenzhen, where he spearheaded the real estate investment business for the company. At Ping An, he was responsible for investing more than US\$900 million in hard assets and development projects across China. His prior employment included AIG Global Real Estate, and Sun Hung Kai Properties Group.

About the Talk:

As a veteran in the real estate industry since the early 90s, Dr. Lam will share his experience and views on the industry evolution and requirements of what the real estate professionals shall possess to adapt the industry development, and also discuss the future industry trends both on the products and on the personal development to cope with the changes.

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