



THE HONG KONG
POLYTECHNIC UNIVERSITY
香港理工大學



INTERNATIONAL • COLLABORATIVE • CONSTRUCTION

BRE Connected

Jan 2022

We Are PolyU
Together We Excel

Department of
Building and Real Estate

建築及房地產學系



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www.polyu.edu.hk/bre/

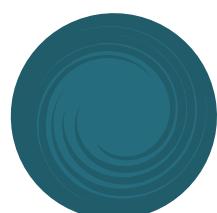


HKPolyUBRE

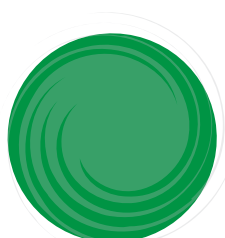


香港理工大学建筑及房地产学系

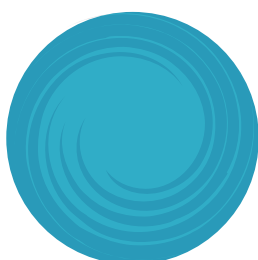
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Head's Message



I feel greatly honoured to be the new Head of our BRE Department, having taken up the appointment in July 2021, following the remarkable leadership of Prof. Albert Chan. As many of you may know, I have served in BRE for a number of years and am passionate about taking the Department forward in the next phase of its development.

In support of the vision of the PolyU and the Faculty of Construction & Environment, BRE is committed to its role as a world-class academic department in the Construction and Real Estate field. Our professionally accredited programmes provide a solid foundation for the nurturing of young professionals and scholars to serve the community. Driven by the rapid development of the construction industry, we shall focus on enriching our students' learning experience by embedding in our curriculum, teaching and involvement in digital construction, advanced technologies and innovations. To kick off this initiative, a Cave Automatic Virtual Environment (CAVE) system has already been installed in BRE to provide a 4D immersive experience and BIM/GIS related content to facilitate teaching and research work.

Starting from the 2022/23 academic year, the PolyU will adopt departmental scheme-based admission instead of programme-based admission in order to provide a broader educational base and a more flexible progression pathway for students. Our three undergraduate awards of BSc (Hons) Building Engineering & Management, Property Management and Surveying, will be offered through the umbrella of the BSc (Hons) Scheme in Building and Real Estate. To prepare students for the challenges brought about by the emerging technologies, the Scheme is enriched by inclusion of two secondary majors in Artificial Intelligence & Data Analytics (AIDA) and Innovation and Entrepreneurship (IE). These will open up new and exciting learning opportunities for our young generation. In the long run, we will explore new programme developments with the aim of complementing the current suite of undergraduate

and postgraduate programmes, to even better meet the challenges of the construction industry in Hong Kong and the Greater Bay Area.

Our long-standing dedication to inspirational and impactful research has earned us many accolades. In the Research Assessment Exercise (RAE) 2020, BRE contributed substantially in the research areas of Civil Engineering (incl. Construction Engineering & Management), Surveying and Planning. Over 70% of our research outputs in Surveying and Planning were rated as "world-leading" (4-star) and "internationally excellent" (3-star). 68% of the research outputs in Civil Engineering (incl. Construction Engineering & Management) were rated as "world-leading" (4-star) and "internationally excellent" (3-star). Our heat stress research enhancing construction workers' health and safety in hot weather was commended as an area of impact strength. We are delighted with these encouraging results, which represent recognition of our pursuit of research excellence for societal impact, living up to PolyU's motto "to learn and apply, for the benefit of mankind".

Good news always comes in pairs. We are excited to share again the great news that 11 BRE scholars have been ranked on the updated list of Top 2% Scientists Worldwide. Riding on all these achievements, we shall remain devoted to advanced interdisciplinary and innovative research in construction health and safety, digital construction, sustainable urban systems and related areas to address real-world challenges for the benefit of Hong Kong, the Nation and the world.

We are privileged to enjoy participation in a broad network of partnerships with government, industry, alumni and the community. Taking advantage of our outreach, our staff and students have benefited from generous donations, scholarships, job opportunities, exchange study placements and various collaborative activities in education, research and knowledge transfer. Capitalising on the 85th Anniversary of PolyU, a series of planned reunion activities will be arranged to re-vitalize our connections. These have been sorely missed due to the pandemic.

I wish to offer my sincere appreciation to all who have contributed to the success of BRE. I look forward to your wise guidance and strong support to climb even higher mountains in the coming six years of my Headship term.

We are PolyU, Together We Excel!

Michael Yam



Awards & Achievements

Outstanding Young Alumni Awards of PolyU BRE 2022



Launched in 2010, the Outstanding BRE Alumni Award, renamed the Outstanding Alumni Award of PolyU BRE, aims to give public recognition to graduates of the Department of Building and Real Estate (BRE) for professional achievement and contributions to the Construction Industry of Hong Kong and the community.

A new Young Alumni category has been added this year, the 7th Outstanding Alumni Award of PolyU BRE, to recognise one of our young alumni for his/her achievements under the four categories of (1) Professional Achievement, (2) Entrepreneurial Achievement, (2) Scholarly Achievement, and (4) Community Service Achievement.



Our heartfelt congratulation goes to Ir Phyllis Chen Fai Wing on receiving the Outstanding Young Alumni Award in Professional Achievement of PolyU BRE 2022. She graduated with a Bachelor of Science in Building Engineering and Management and appeared on the Dean's Honours List of the Faculty of Construction and Land Use in 2003. She has devoted herself to the construction industry for 18 years and consistently delivered work with high standards of quality and efficiency in leading teams to complete many challenging assignments on various large-scale building projects in Hong Kong and Macau. Her outstanding Project-in-Charge leadership of the Central Plaza Podium Extension project, led to her recognition by the Hong Kong Institute of Construction Managers (HKICM) with the Grand Excellent Construction Team Award (A&A works), the Construction Manager Award and the Young Construction Manager Award.

Prof. Li Heng has been successful with General Research Fund applications for Four successive years

More about
Prof. Heng Li:

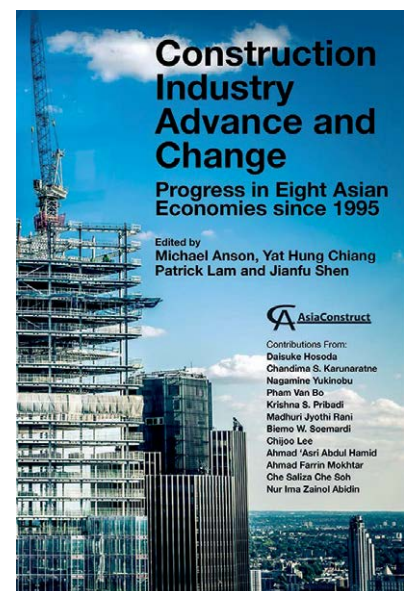


A massive round of applause to Prof. Li Heng, Chair Professor of Construction Informatics, who won yet another General Research Fund (GRF) grant from the Hong Kong Research Grants Council in 2021. Prof. Li has achieved the impressive feat of four successive annual GRF awards. We highly appreciate that his achievement further enhances the Department's reputation for research and sets a high standard for our young colleagues to follow.



Construction Industry Advance and Change: Progress in Eight Asian Economies Since 1995

Our staff members, Emeritus Professor Mike Anson, Prof. Chiang Yat Hung, Dr Patrick Lam and Dr Jianfu Shen, edited, part wrote and coordinated the production of the new book 'Construction Industry Advance and Change: Progress in Eight Asian Economies Since 1995', published by Emerald publishing in Nov 2021. The book, written to celebrate 25 years of existence of the AsiaConstruct Network describes construction industry progress between 1995 and 2019, in terms of what was built and standards achieved, in Hong Kong, India, Indonesia, Japan, Malaysia, South Korea, Sri Lanka and Vietnam. BRE has continuously represented Hong Kong at AsiaConstruct Conferences and its leadership meetings since its inception in 1995.



More about
the Book



Awards & Achievements

Prof. Ni Meng received Innovation Awards from the World Society of Sustainable Energy Technologies

Many congratulations to Prof. Ni Meng of BRE, who recently received Innovation Awards in the category, **Power Generation Technologies**, from the World Society of Sustainable Energy Technologies (WSSET) for significant contributions to **solid oxide fuel cells** technology providing for efficient and clean energy conversion.



More about
Prof. Meng Ni:



More about
the Awards:



The WSSET Innovation Awards recognise the achievements of private individuals and organisations in new sustainable technologies. Innovative ideas are relevant to the following areas:

- Renewable energy systems (e.g., solar, wind and biomass)
- Power generation technologies (e.g., CHP systems, fuel cells and anaerobic digestion plants)
- Energy efficiency (e.g., heat pumps and hybrid solar/gas systems)
- Low carbon buildings and future cities (e.g., low/zero carbon buildings, sustainable cities)
- Water treatment and desalination (e.g., solar water desalination)
- Sustainable materials (e.g., innovative composite materials and aerogels)
- Waste management and water recycling (e.g., households and construction waste management)
- Agri-food technologies (e.g., innovative greenhouses and food drying)

Dr Jackie Yang awarded funding from PICO Public Policy Research and the Institute of Technology of Cambodia

Big applause to the research team of Dr Jackie Yang, Research Assistant Professor, Prof. Albert Chan, Dean of Students and Chair Professor of BRE, Dr Esther Yung, Associate Professor, Dr Hung Lin Chi, Assistant Professor, Dr Amos Darko, Research Assistant Professor, and Mr Andy Chau, Founding Chairman, for being awarded PICO Public Policy Research Funding of about HK\$400,000 for their project 'Regulatory Framework and Guidelines for Drone Applications in the Hong Kong Architecture, Engineering and Construction Industry. The research will study (1) how drones should be regulated to control risks of safety, privacy and legal liability in the Hong Kong Architecture, Engineering and Construction (AEC) industry, and (2) how an enabling regulatory environment should be developed to support more comprehensive drone applications in the Hong Kong AEC industry.



*More about
Dr Yang:*



Recently, Dr Yang and Prof. Albert Chan received an award from the Institute of Technology of Cambodia to determine the impacts of heat stress on labour productivity in the Cambodian construction industry. The study aims to evaluate the impact of heat stress on labour productivity and to formulate heat stress preventive measures, enhancing the well-being of construction workers.



Awards & Achievements

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

Huge congratulations to our colleagues on the high rankings achieved in a Worldwide Study conducted by Stanford University!

The colleagues include Prof. Albert Chan, Prof. Li Heng, Prof. Geoffrey Shen, Prof. Edwin Chan, Prof. Eddie Hui, Dr Patrick Lam, Prof. Ni Meng, Prof. Zayed Tarek, Dr Daniel Chan, Dr Patrick Fong and Dr Amos Darko.



View their profiles :



The scholars are listed in the “Updated science-wide author databases of standardised citation indicators” compiled by Stanford University. This publicly available database of over 100,000 top scientists worldwide offers standardised information on citations, h-index, co-authorship adjusted hm-index, citations to papers in different authorship positions and a composite indicator. It also provides metrics with and without the inclusion of self-citations and the ratio of citations to citing papers. There are 22 scientific fields and 176 scientific sub-fields. Field- and subfield-specific percentiles are also given for all scientists who have published at least five papers. Career-long data are updated to the end of 2020.

Dr Weng Yiwei acquired FCE Start-up Funding for New Recruits

A warm welcome to Dr Weng Yiwei, our new Assistant Professor, who has been awarded HK\$600,000 from the FCE Start-up Fund for New Recruits for a 3-year project. The project, entitled Integrating BIM with Robotics for Introducing Steel Reinforcement by A Team of Robots in a 3D Concrete Printing Process, aims to develop an automatic method for introducing the reinforcement in 3D printed concrete structures. In this project, the data in the Building Information Modelling will be analysed, processed, and distributed to a team of robots. The robots will be used to achieve concrete material printing and reinforcement introduction in the same working environment. The generic pipeline of this project and a typical example of multi-robots for 3DCP can be found in Figures 1 and 2, respectively. The project is expected to enhance digitalisation and automation of 3DCP.

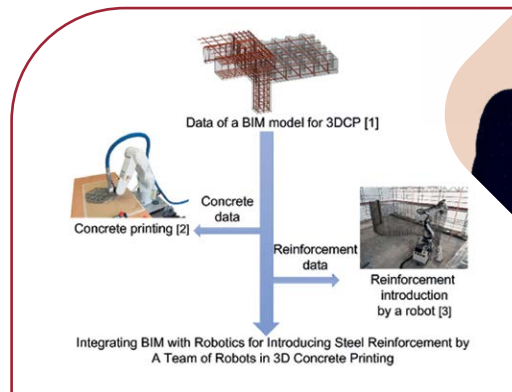


Figure 1: The generic pipeline

More about Dr Weng:



Figure 2: A multi-robot system for 3DCP

Dr Amos Darko's Success in General Research Fund Application and Teaching

Please join us to congratulate Dr Amos Darko, Research Assistant Professor of Construction and Real Estate Management, on being awarded over HK\$0.9 million from the Hong Kong Research Grants Council (RGC) General Research Fund (GRF)! His winning project is entitled 'Automating Green Building Assessment for the Interior Spaces of Existing Building based on a Scan-to-Building Information Modelling and Plug-in Software Approach'. As human beings, we spend 90% of our time indoors, so improving interior spaces significantly enhances our health, wellbeing, quality of life and productivity.

This was Dr Darko's very first GRF application, and we wish him further success with both GRF and other external competitive research funding schemes.

In addition, in teaching quality, Dr Darko in achieving high average SFQ scores, was among the top 20% of all staff members!

We value Dr Darko's contribution in providing best possible educational programmes for the future professionals of our society and wish him continuing success in teaching!



Awards & Achievements

BRE Department Research Award 2020/21

Awards	Awardees
BRE Award for Outstanding Research Performance 2020/21	Prof. Li Heng (Chair Professor) Prof. Ni Meng (Professor) Prof. Zayed Tarek (Professor)
BRE Award for Outstanding Achievement in Research Funding 2020/21	Prof. Ni Meng (Professor)

PolyU Postdoc Schemes to Nurture Research Talents

In an effort to nurture future research talent, PolyU has launched the following schemes to attract promising young scholars to the University. Academics in the Faculty of Construction and Environment (FCE) have been supported with funding enabling them to engage a postdoc fellow in pursuit of their research interests.

PolyU Joint Postdoc Scheme with Non-local Institutions

To enhance the research capacity of PolyU and increase collaboration between the University and non-local institutions, a Joint Postdoc Scheme with Non-local Institutions was recently established. Three projects, each jointly proposed by a supervisor from BRE as principal investigator (PI) and a non-local institution supervisor as a co-investigator have been approved enabling the recruitment of a postdoctoral researcher. Details are as follows:

Principal Investigator (Department)	Co-Investigator (Institution)	Researcher (Institution where PhD was/ will be obtained)
Prof. Geoffrey Shen	Dr Xiaodong Li (Tsinghua University)	Ms Anushika Chathurangi Ekanayake Mudiyansele (The Hong Kong Polytechnic University)
Dr Seo JoonOh	Dr Seung Hyun Cha (Korea Advanced Institute of Science and Technology)	Dr Ali Abbas (The Hong Kong Polytechnic University)
Dr Weng Yiwei	Dr Hongjian Du (National University of Singapore)	Mr Junhong Ye (Tongji University)

PolyU Centrally Funded Postdoctoral Fellowship Scheme 2021/22

The PolyU Centrally Funded Postdoctoral Fellowship Scheme was recently introduced for current postdoctoral fellows, two of whom have been supported in BRE. Details are as follows:

Principal Investigator (Department)	PDF (Institution where PhD was obtained)
Prof. Ni Meng	Dr Jie Yu (Nanjing Tech University)
Dr Daniel Chan	Dr Timothy Oluwatosin Olawumi (The Hong Kong Polytechnic University)

PolyU Postdoc Matching Fund Scheme 2021/22

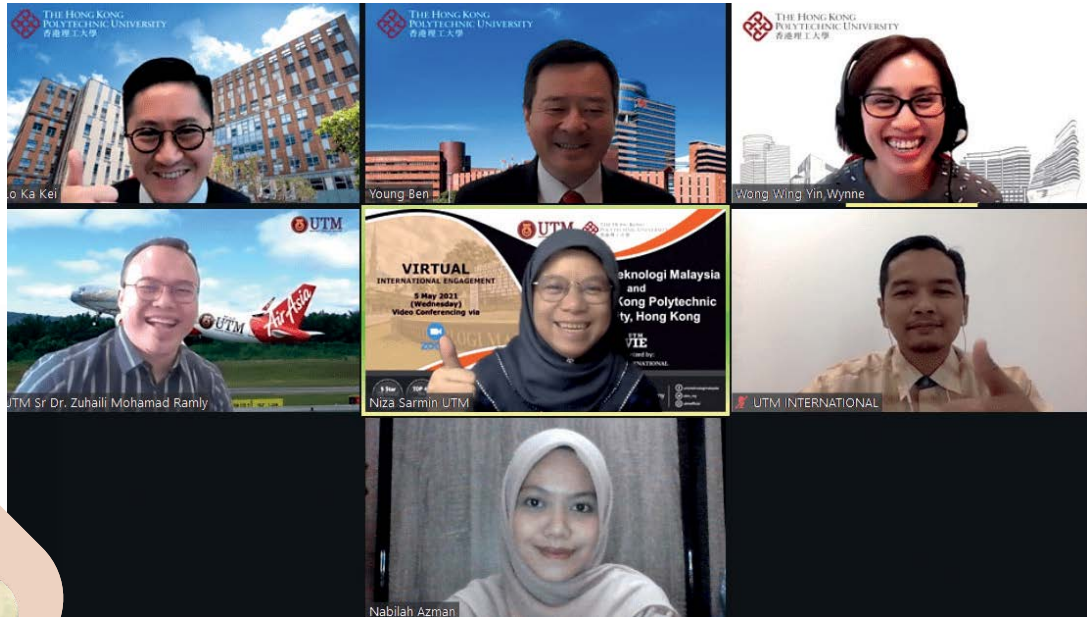
Successful academic staff of externally-funded projects will receive matching funding to engage a postdoc fellow to support their research for 2 years.

Principal Investigator (Department)	PDF (Institution where PhD was/will be obtained)
Prof. Ni Meng	Dr Daqin Guan (Nanjing Tech University)
Prof. Michael Yam	Dr Junjie Wang (Tongji University)
Prof. Zayed Tarek	Dr Aqeel Abbas (National Taiwan University of Science and Technology)
Dr Amos Darko	Mr Mershack Opoku Tetteh (The Hong Kong Polytechnic University)
Dr Emmanuel Kingsford Owusu	Mr Sitsofe Kwame Yevu (The Hong Kong Polytechnic University)
Dr Jackie Yang	Ms Janet Mayowa Nwaogu (The Hong Kong Polytechnic University)

Awards & Achievements Students

BRE PhD Graduate

Sr Dr Zuhaili Mohamad Ramly has been recognised for his outstanding performance in Universiti Teknologi Malaysia (UTM)



BRE is very proud to see that our alumnus, Sr Dr Zuhaili Mohamad Ramly, is succeeding in his career in Malaysia. He was recently named recipient of the University Teaching Award 2021. The award was announced during the Annual Appreciation and Excellence Service Award of Universiti Teknologi Malaysia (UTM) on 22 September 2021. There are 1,680 academic staff, serving almost 25,000 students, including 4,900 international students.

Sr Dr Zuhaili has served as Assistant Dean since 1 July 2018, holding the External and Global Engagement portfolio for the Faculty of Built Environment and Surveying. He oversees the portfolio on partnership and internationalisation. During his tenure as Assistant Dean, he was involved in collaboration between UTM and PolyU via a virtual engagement held on 5 May 2021. PolyU was represented by Prof. Ben Young, Vice President (Student and Global Affairs), accompanied by Mr Eric Lo, Interim Director of Global Engagement, and Ms Wynne Wong, Senior Manager (Institutional Relations and Partnership).

Sr Dr Zuhaili was conferred the Degree of Doctor of Philosophy during PolyU's 21st Congregation Ceremony. His PhD study was supervised by Prof. Geoffrey Qiping Shen, Chief Professor of BRE, and Dr Ann Yu, Associate Professor. Prof. Shen was appointed Director of Global Engagement in September 2021, which enabled them to work together again.

BRE PhD Graduate

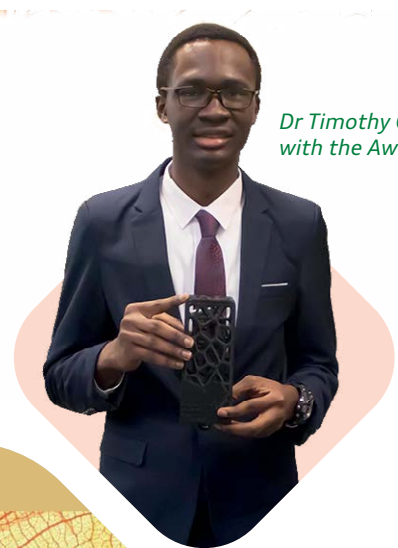
Winner of the BIM Africa Innovation Awards 2021 (Category: Research Excellence Award)

Dr Timothy Olawumi, a PhD graduate of BRE, won the prestigious BIM Africa Innovation Award 2021 within the category Research Excellence, out of 298 nominations received.

The BIM Africa Innovation Awards 2021 seek to recognise the talents and efforts of leading industry professionals and organisations in the construction sector going 'above and beyond' in deploying innovative solutions promoting Africa's Development. There are nine award categories in total, based on the nominations of candidates for any of the award categories. Nine appointed award judges make the award assessments. Dr Olawumi received his award plaque and certificate during an online award presentation ceremony on Tuesday, 2 November 2021.

Dr Olawumi is grateful to have been nominated by several people, including Dr Daniel Chan, Associate Professor and Associate Head (Teaching) of BRE, who effectively supervised his PhD research study. He also thanks the award judges for their recognition of his research work.

Dr Olawumi is currently an Assistant Professor / Lecturer of Construction and Surveying, School of Engineering and the Built Environment, Edinburgh Napier University, Scotland, United Kingdom.



*Dr Timothy OLAWUMI
with the Award Plaque*



*Photo: left to right: Dr Suha Jaradat
Edinburgh Napier University, Scotland,
United Kingdom; Dr Timothy Olawumi and
Prof. Mark Deakin*

Awards & Achievements Students

Professional Excellence in Building Award for PhD Student

In the Professional Excellence in Building Awards category, 2021, organised by the Australian Institute of Building (Hong Kong Chapter) (AIB-HK), our full-time PhD research student, Abdullahi Saka from Nigeria, won the Certificate of Merit award based on his entry entitled 'Development of a Hybrid Intelligent and Dynamic System for Adoption and Implementation of Building Information Modelling (BIM) in Small and Medium-Sized Construction Enterprises (SMEs) in Developing Countries' submitted within the category B3 - Student Achievement. He is currently supervised by Dr Daniel Chan, Associate Professor and Associate Head (Teaching) of BRE. He received his award certificate at the Award Presentation Ceremony held on Saturday, 17 July 2021.



Nominations for the award category B3 - Student Achievement, are open to any undergraduate or postgraduate students studying construction, civil, building, mechanical, architectural and E&M engineering or surveying in universities and colleges (both full-time mode and part-time mode).

CIOB (HK) Outstanding Student Awards 2021 – **Tracy Cheung**, Building Engineering and Management graduate

Cheung Suet-Wai Tracy, our BSc (Hons) in Building Engineering and Management (BEM) graduate with 1st Class Honours, won the CIOB (HK) Outstanding Student Award 2021. Her dissertation 'Evaluation of the Uncertainties of Manpower Allocation to Hong Kong Public Works Projects' focused on the manpower allocated to public works completed within the last ten years.

Tracy is now a graduate engineer with Henderson Land Development Company Limited. She will be a part-time BRE PhD student supervised by Dr Francis Siu as chief-supervisor and Prof. Albert Chan and Dr Jackie Yang as co-supervisors. Tracy said, "It is my honour to be the awardee of the CIOB (HK) Outstanding Student Awards 2021. It recognises my dissertation on construction workforce management in the local public works. I would like to give a big thank you to my supervisor Dr Francis Siu for his patient guidance and unreserved support. I look forward to being an influential construction management professional contributing to the built environment sector."



Awards & Achievements

Young Achiever of the Year for RICS Awards 2021 Hong Kong – Ms Michele Lui, Building Engineering and Management graduate

Congratulations to Ms Michele Lui, our BSc (Hons) in Building Engineering and Management (BEM) graduate, on receiving the Hong Kong RICS Young Achiever of the Year Award for 2021.



Michele was selected for her highest standards of professionalism, as a role model for her peers, and the assessed likelihood of her making an outstanding contribution to the profession during her future career.

She works as a Project Manager with Hip Hing Construction Co. Ltd. Despite her busy schedule, Michele actively participates in BRE activities. She, as an alumna, joined one of our activities in October to share with undergraduate freshmen details of

her career development and the innovative changes occurring in the construction and real estate industries.



The Emerald Prize for the Best Theoretical or Methodological Paper

We are extremely proud that our students Anushika Ekanayake and Jin Xue, together with the senior academics Geoffrey Qiping Shen and Mohan M Kumaraswamy, were awarded the Emerald Prize for the best theoretical and methodological paper, by the Association of Researchers in Construction Management, for the research paper 'Dynamic Supply Chain Vulnerability Analysis of Hong Kong-Zhuhai-Macao Bridge Construction: A Topic Modelling Approach' in the 37th Annual ARCOM Conference on 6 – 7 September 2021.

Congratulations! Superior work!

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 <https://www.polyu.edu.hk/fce/study/taught-postgraduate-programmes/>

Departmental Entry Scholarship

On top of the Faculty Entry Scholarship currently available, additional Departmental Entry Scholarships will be awarded to qualified applicants of BRE Master programmes with an outstanding academic background in 2022/23 intake. A one-off scholarship of HK\$25,000 shall be granted to the successful recipient of the Departmental Entry Scholarship.

Online Application

<http://www.polyu.edu.hk/study> on or before **30 April 2022 (Sat)**. 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

Enquiries

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DIREC

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bsconnie@polyu.edu.hk



Info Seminars: 5 Mar 2022 (Sat)
Details will be announced on the website

Registration Deadline:
25 Feb 2022 (Fri)

SIGN UP NOW!

Taught Postgraduate Programmes in Construction and Real Estate Sector

Applications are now invited for admission during the 2022/2023 academic year for both the full-time and part-time taught postgraduate programmes for relevant professionals working in the construction and real estate sector.

Programme Leaders

MSc in Construction and Real Estate (CRE)

建築及房地產學 理學碩士學位
(Programme Code 32111)

Dr Chi Hung Lin
BSc, MSc, PhD

MSc in Construction Law and Dispute Resolution (CLDR)

建築法及爭議解決學 理學碩士學位
(Programme Code 32112)

Dr Esther H.K. Yung
BArch, MSc CPM,
Dip Legal Studies, PhD (HKU),
MRICS

MSc in Project Management (PM)

項目管理 理學碩士學位
(Programme Code 32113)

Dr Fan Hongqin
PhD, MHKIE, MHKICM, MCIOB

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)

Prof. Eddie C.M. Hui
BSc(Hons), MPhil(Cantab),
PhD(Cantab), FHKIS. MRICS

Inspirational World Rankings

6th (QS Top 50 Under 50 Rankings 2021)

25th (QS Asia University Rankings 2022)

66th (QS World University Rankings 2022)

21st (QS World University Rankings by Subject 2021 - Engineering - Civil & Structural)

18th (QS World University Rankings by Subject 2021 - Architecture / Built Environment)

Sign Up for
Info Seminars

polyu.edu.hk/bre

HKPolyUBRE

香港理工大学建筑及房地产学系



Prof. Albert Chan started his new journey at PolyU

We happily take this opportunity to congratulate Prof. Albert Chan, our immediate last Head of BRE and Chair Professor, who assumed the role of PolyU Dean of Students in September this year. Expressing his vision, he said: “PolyU has given me some of the most enjoyable moments in my life. I hope to give our students a fruitful university life, where they can discover their talents, and feel the love and care of the University as much as I did as a student here.”

New Dean of Students passes on his **KNOWLEDGE AND CARING SPIRIT**

Professor Albert Chan

- Higher Diploma and Associateship in Building Technology and Management, Hong Kong Polytechnic
- MSc in Construction Management and Economics, Aston University, UK
- PhD in Project Management, University of South Australia, Australia
- Chair Professor of Construction Engineering and Management
- Able Professor in Construction Health and Safety
- Dean of Students
- Head of Department of Building and Real Estate (2015 – 2021)



With distinctive red-brick architecture, the campus of PolyU holds an extraordinary place in the heart of Prof. Albert Chan. It is filled with fond memories from his days as a student at the then Hong Kong Polytechnic, to ultimately becoming the acclaimed scholar he is today, at his alma mater, and pursuing research of great value to society.

Prof. Chan always encourages students to broaden their horizons by participating in different activities, such as the Global Student Ambassador Programme and the Student Exchange Programme, as they usually lead to unexpected gains. “Through these programmes, students can connect with people of various cultures from all walks of life.”

Prof. Chan is a PolyU alumnus himself, who studied building technology and management at the then Hong Kong Polytechnic. He was a student representative during that time. “At first, I was just doing some donkey work, like printing handouts for professors. Gradually I started to join meetings as a student member to voice student opinions,” he said.

Prof. Chan acknowledges that the road to success is often filled with challenges and failures, but there is always a way through if you persevere. He added: “Similarly, there are ups and downs in life and I believe that one can ultimately overcome adversity with hard work and perseverance.”

New Scheme

Realise Your Future of Professionalism, Innovation and Success

Bachelor of Science (Honours) Scheme in Building and Real Estate (BRE)

Programme Code
JS3100

September 2022 Entry

Students of the BRE Scheme may choose one of the following three programmes after their year-one studies. The programme selection criteria are ready on the BRE webpage: www.polyu.edu.hk/bre. Also, students are awarded one of the following titles on meeting the graduation requirements of the programmes concerned. *Secondary Major options are available.

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

Features

Discipline: Construction and Environment
Mode of Study: Full-time
Normal Duration: 4 years

Curriculum

Year 1:

In the common first year of the BRE Scheme, students are introduced to basic knowledge and the latest construction and real estate industry issues.

Year 2:

The curriculum covers the disciplines of economics and finance, law, technology, building engineering, real estate, property management, and housing and facilities management.

Year 3 and 4:

The curriculum focuses on problem identification, problem-solving, and decision making in the key areas addressed by the programme.

General Entrance Requirements (for JUPAS Applicants)

Level 3: English Language and Chinese Language

Level 2: Mathematics and Liberal Studies

Level 3: Any two elective subjects or anyone elective subject and Mathematics Extended Module 1 or 2

Application

Based on HKDSE results, JUPAS applicants may apply to this programme via the JUPAS website at www.polyu.edu.hk/study. Non-JUPAS applicants may apply for admission via the online application system at the Study@PolyU website: www.polyu.edu.hk/study

Undergraduate Scheme Chairman

Dr Esther YUNG

BArch, MSc, CPM, Dip Legal Studies, PHD, MRICS

Email: esther.yung@polyu.edu.hk

More details about the BRE Scheme



2021

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Public Forum on Integrated Approach for “Point-Line-Plane” Built Heritage Conservation in Hong Kong

Like many cities, Hong Kong has long struggled through arguments between heritage conservation and urban development. Promoting heritage conservation is crucial for the city, not just for tourism but also for reasons of cultural identity, urban sustainability and economic development. Especially in Hong Kong, the conservation targets are primarily individual historic buildings (“points”) because of the multi-faceted nature of heritage conservation and the complexities of land administration in Hong Kong.

Funded by the Built Heritage Conservation Fund (HKSAR), a research study aims to identify the deficiencies of the conservation measures using “Point” and “Line” approaches and to provide complete explanations for each of the key criteria which need to be considered to extend the scope of the work into an integrated “Point-Line-Plane” approach. The paramount purpose of this study is the provision of guiding principles enabling conservation practitioners to effectively implement the integrated “Point-Line-Plane” approach in Hong Kong for building heritage protection and fully promoting district-wide conservation.

The public forum presented our students with the latest research findings. The following several recommendations were made to conservation practitioners on how to effectively implement the integrated “Point-Line-Plane” approach, in the pursuit of Hong Kong built heritage conservation.

- Undertake case studies on international cities/ countries
- Establish key success criteria based on the “Point-Line-Plane” approach
- Develop a decision-making model to enhance the adoption of the integrated “Point-Line-Plane” approach

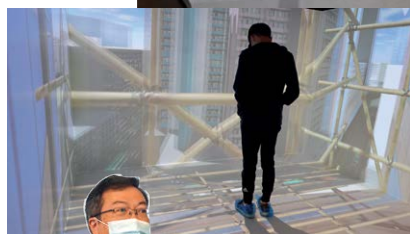


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PolyU Summer Programme

A big applause goes to those secondary school students who participated in the PolyU Summer Programme (BRE Session) on 6 August! This is one of the best ways to get a feel for life in our Department. The programme aimed to help students navigate the undergraduate programmes available, towards the most appropriate selection for them. It was an excellent opportunity for school students to learn more about our leading programmes and the construction industry and enjoy VR and AR immersive experiences.

Best wishes to all HKDSE students for a good result!



26 AUG

BRE Orientation Programme for Undergraduate Freshmen and Freshwomen

Starting a journey with BRE on the undergraduate path in this close-knit community can be a thrilling and rewarding time. A sunny afternoon helped a fabulous orientation to welcome our new students and chat with them. Our professors shared their insights towards helping the new students reach their essential milestones on the new journey.



Happenings



28 AUG

BRE Orientation Session for Taught Postgraduate Freshmen 2021/22

Congratulations to our postgraduate students on embarking upon a fruitful adventure with us! Studying with BRE is part of the journey, critical to their future contributions to industry professionalism, innovation and success.



18 SEP

Orientation Session for Doctor of International Real Estate and Construction Programme (DIREC)

During the Orientation Session, a hearty welcome by Prof. Michael Yam, Head of BRE and Prof. Eddie Hui, Associate Head (Partnership) of BRE and Programme Leader wished DIREC students a rewarding academic year!



04 OCT

BRE 1000 (A Freshmen Seminar)

What a wondrous morning! In a hybrid activity on 4 October for our BRE freshmen, three remarkable graduates, Ms Michele Lui, Project Manager, Hip Hing Construction Co. Ltd., Sr Patrick Leung, Head of Facilities Management, HK & Macau, Dairy Farm Co. Ltd. and Sr Ryan Wong, our alumnus, were invited to share their inspiring career development stories and the innovative changes occurring in the construction and real estate industries, encouraging a positive mindset among the listeners. Best of all, the Q&A Session with it's many fruitful interchanges between the three graduates and the freshmen. Dr Daniel Chan, Associate Head (Teaching) of BRE, presented souvenirs to the graduates, along with our sincere gratitude.



10 OCT

PolyU Education Undergraduate Info Day

Thanks to all of you who joined our Info Day!

The event was fully packed with activities enabling students to explore our undergraduate programmes, understand graduates career paths, experience advanced virtual reality systems, etc.



21 OCT

Career Talk by Coldwell Banker Richard Ellis (CBRE)

CBRE, a global commercial real estate services company, conducted an excellent Career Talk for our students on 21 October. The talk was very successful. Our students received helpful information on the nature and scope of the work done and the required skillset. There were many constructive interactions between the presenters and our students.

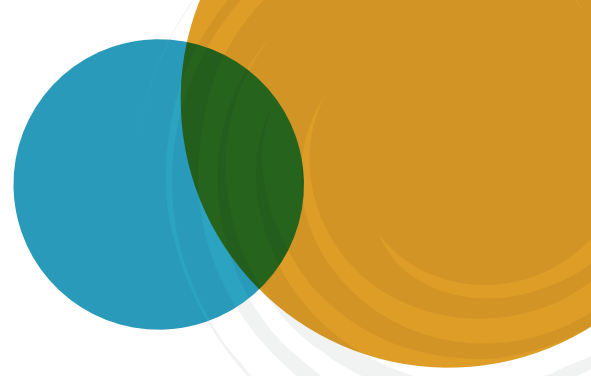


29 OCT

Staff Meeting – Presentation of Departmental Awards

A presentation of Departmental Awards cum staff meeting was held on 29 October to show our sincere appreciation to our academic staff members for their unstinting efforts. Many thanks are extended to all of them for their continuous support and contributions to the development of the Department.





02 NOV

Gathering with Exchange Students

Care without boundaries! Due to the pandemic, most outbound student exchange arrangements have been suspended, but nothing can stop us from taking care of our students. We arranged a gathering with our inbound exchange students on 2 November to let them know more about the support of BRE to facilitate their holistic growth and provide guidance on educational and career planning. Sincere thanks are due to Prof. Michael Yam, Head of Department of BRE, Prof. Eddie Hui, Associate Head (Partnership), and Dr Yi Sun, Assistant Professor, for sharing their fruitful insights with students.

10 NOV

School Talk

A good study plan is a valuable factor towards success. Thank you to a group of Pui Ching Middle School senior form students, for joining our Admissions Talk on 10 November. During the talk, they received firsthand information on the newly launched 'BSc (Hons) Scheme in Building and Real Estate and Secondary Major options in Artificial Intelligence and Data Analytics (AIDA) and Innovation and Entrepreneurship (IE)'. The informative presentation made by Mr Kong Wai Kei, Teaching Fellow of BRE, was well received with much active participation. Please do not hesitate to contact us if you are interested in our undergraduate programmes.

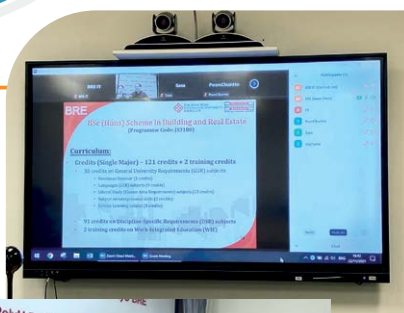


13 NOV

Joint School Mock Interview Day (Online)

Students from various secondary schools were given the taste of an admission interview by our admission officers on 13 November. Students gained many interview skills during the virtual mock interviews on how to answer complex questions, develop interview strategies, and improve communication skills.





19 & 22 NOV

Online Info Seminar on PolyU Undergraduate Programme Talk in the Building and Real Estate Sector

Finding the most suitable undergraduate programme may prove something of a puzzle to secondary school students. What better than to gain insights by joining our Info Seminar?



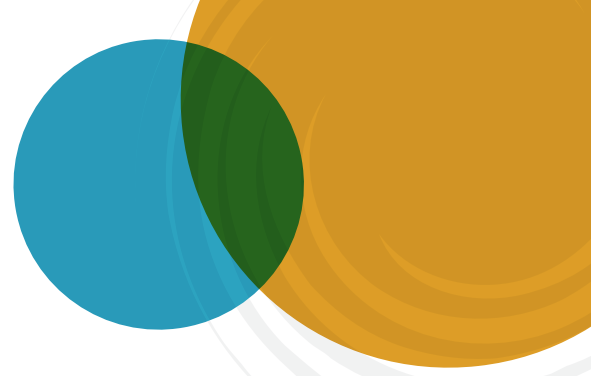
25 NOV

A Big thanks to our donor - Richfield Realty Limited

To express our heartfelt gratitude to Richfield Realty Limited for their generosity in providing scholarships for our students, an appreciation meeting in support of the scholarship scheme was held on 25 November. We were so honoured to have Miss Celia Wong, CEO of Richfield Realty Limited, and Miss Gloria Leung, Public Relations Manager, together with Prof. Michael Yam, Head of Department, Prof. Eddie Hui, Associate Head (Partnership), and Ms Hebe How, Teaching Fellow, to join the event and share some words of wisdom to encourage the student awardees, Chau Ying Tung and Lee Cheuk Him.

After visiting the Department of Building and Real Estate of the PolyU and CAVE (Cave Automatic Virtual Environment) system, the visitors were impressed by the new virtual reality laboratory and its integration with high-tech innovation. They believed this new installation would help transform the traditional real estate industry and help lead the way to the virtual, mixed reality applications of the coming generation.





30 NOV

BRE Distinguished Lecture: Reshaping the Hong Kong Construction Industry

The BRE Distinguished Lecture was successfully held on 30 November, with around 200 eminent professionals and academics joining in hybrid mode. We were most honoured to have Mr Chan Ka Kui, SBS, JP, Chairman of the Construction Industry Council (CIC), as the Distinguished Speaker construction, who delivered an inspiring and meaningful lecture on the significant initiatives that CIC have implemented over the past six years during the tenure of his chairmanship.

We gladly take this opportunity to express our heartfelt thanks for his dedicated service and contribution to the construction industry of Hong Kong. We wish him a happy retirement!

06 DEC

CRECCHI 19th Anniversary Dinner

Warmest congratulations to the China Real Estate Chamber of Commerce Hong Kong and International Chapter (CRECCHKI) on its 19th Anniversary!

In celebrate this important milestone, CRECCHKI hosted the 19 Anniversary Dinner cum Symposium 2021-Smart City on 6 December. Prof. Albert Chan, Dean of Students and Chair Professor of BRE, Prof. Eddie Hui, Associate Head (Partnership), Cheuk Jocelyn, Year 2 student and Yau Shun Kit, Year 1 student, were invited to join this significant event. Sincere thanks to CRECCHKI for their generosity. Wishing CRECCHKI more success in the upcoming future. All the best!

Thumbs up to Cheuk Jocelyn and Yau Shun Kit, who have been granted Scholarships by CRECCHKI for outstanding academic results. Keep up the excellent work!





6 & 7 DEC

Great success of Asian Forum on Graphic Science 2021

The Department of Building & Real Estate was successful in organising the webinar for the 13th Asian Forum on Graphic Science (AFGS2021) held on 6 and 7 December, in cooperation with China Graphic Society (CGS), Japan Society for Graphic Science (JSJS), International Society for Geometry and Graphics (ISGG), Game LAB Project, and the Polish National Agency for Academic Exchange (NAWA).

AFGS2021 provided a platform for experts and scholars to exchange and discuss geometry and graphics, computer graphics, industrial applications and research, graphics education and other related fields. The webinar was a great success. Eight renowned scholars from China, Japan, Poland, the UK, Serbia and South Korea and 40 technical paper presentations, including eight unique Gamelab papers, were delivered in 2 days. About 200 guests from 15 countries and three continents joined the heated discussion.

Special thanks are due to everyone for contributing to this success. We thank our conference chairs, Prof. Heng Li, Dr Hsi-Hsieh Wei, Dr Wei Hung-Lin, and our organising committee members, including Dr Francis Siu and Dr Seo JoonOh. Our deepest gratitude goes to our sponsors, the Construction Industry Council, Construction Innovation and Technology Fund, and the Research Institute for Artificial Intelligence of Things (RIAIoT), of the Hong Kong Polytechnic University.

15 DEC

Appointed to design and deliver a Project Delivery Capability Programme (PDCP)

We are so proud to be appointed to design and deliver a Project Delivery Capability Programme (PDCP) for senior construction professionals of the HKSAR Government. The PDCP was graced by the presence of the Hon's Financial Secretary of the HKSAR Government. Mr Paul Chan, who officiated the Programme on 15 December. Prof. Albert Chan, Dean of Students and Chair Professor of BRE, attended the event to receive an honour.



19&20 DEC

Experiential Learning on Site Safety 2021 – 2022

Safety is always a priority on construction sites. To inspire our undergraduate students and raise their awareness of construction safety issues, around twenty students joined the 1.5-day training course, “Experiential Learning on Site Safety 2021 – 2022”, co-organised by the Construction Industry Council (CIC) and the Hong Kong Construction Association (HKCA) on 19 – 20 December.

The training was well-received by our students. They gained much invaluable knowledge on construction safety, working-at-height, lifting operations, and more, throughout the first day of interactive and structured training. To enhance the students’ safety awareness and to experience the real situation, they also took part in simulation-based training which modelled real accident scenarios in eight different fields, including Chemical & Electrical Safety, Fire Safety, and Personal Protective Equipment, Working-at-Height, and more.



Entry Scholarships 2021

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

Our thanks go to the donors of the following Entry Scholarships in 2020/21:

- | | |
|---|--|
| 1 | China Real Estate Chamber of Commerce Hong Kong and International Chapter (CRECCHKI) Scholarship |
| 2 | Ng Wing Hong Entry 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) for 2022

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 good experiences 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 for both uplifting the quality of students and fostering potential manpower pool to the company and the industry as a whole.

We always welcome work opportunities for our students in summer 2022. If you are interested in offering work opportunities, either in Hong Kong or the Mainland, including the Greater Bay Area (GBA), please let us know through the email: bsjanlau@polyu.edu.hk.



Dr Hafiz Zahoor Ahmad Khan, upon completing his doctoral studies at Hong Kong PolyU, joined his alma mater, NUST Pakistan, as Assistant Professor and taught various construction management courses to undergraduate civil engineering students. In addition, he successfully supervised postgraduate research students and guided them in publishing their research output in high impact factor journals. Later, two of these students secured prestigious international research scholarships and proceeded abroad to pursue their doctoral studies.

He also accepted the opportunity to effectively lead the design team of a national-level construction enterprise in Pakistan, primarily responsible for constructing high-rise residential apartments in various cities in Pakistan. He has coordinated design and execution matters and helped prepare timely and accurate estimates for high-rise apartment buildings.

Besides accomplishing his major project management obligations, he has published over 50 research papers in well-reputed international journals during the last six years.



Have a read of
Dr Hafiz Zahoor
Ahmad KHAN :



Dr Hafiz Zahoor Ahmad Khan

Assistant Professor

Department of Construction Engineering & Management
National University of Sciences and Technology, Pakistan

Current Research Areas

- BIM aided information and visualization repository and BIM-based claims management system.
- BIM-based rainwater harvesting potential in urban areas.
- Project control and forecast assessment using earned value management.
- Extrinsic psychosocial stressors and workers' productivity.
- Contractor's selection and bid evaluation process.
- Safety climate and safety performance for building projects.
- Construction accidents analysis.

Graduate Year in PolyU

January 2017

PhD Supervisor in BRE, PolyU

Prof. Albert CHAN

PhD Project Title:

Investigating the relationship between safety climate and safety performance in the construction of multi-storey buildings in Pakistan.

Zahoor, H. (2017)

Download



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BSc (Hons) in Property Management
BSc (Hons) in Surveying



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BRE Student acquired various scholarships in 2020/21 with excellent academic achievement

BRE always cherishes its students and is eager to support them. Awarding scholarships to our students is one way to show our appreciation to those students with excellent academic achievements. Wong Sze Lam, Connie is a Year 2 student taking the programme Bachelor of Science in Property Management. Supervised by Ms Hebe How, Teaching Fellow of BRE, she did well in the examination and received a Hong Kong Chiu Chow Chamber of Commerce Scholarship 2020/21 and the Real Estate Developers Association of Hong Kong Scholarship. Let's see what she wants to share with us:



Wong Sze Lam Connie

BSc (Hons) in Property Management, Year 2

"I used to be an introvert who was afraid of starting conversations. However, having participated in various leadership and voluntary activities, I have transformed myself into a person who enjoys being in a group and interacting with people from different walks of life.

Doing voluntary work means a lot to me. I have built genuine relationships with service recipients, ranging from small children, to people with congenital diseases to the elderly. I would like to make positive impacts on the lives of others and be the one who gives lollipop moments.

I am also enthusiastic about music. I love playing musical instruments, such as the piano, the clarinet, and the guitar. I can explore an entirely different world in music, which always gives me inspiration and motivation.

With my passion for community services and music, joining a voluntary service, teaching children music is incredibly satisfying. I enjoy the valuable moment of seeing big grins on faces and hearing the laughter of the needy during interactions. It dawns on me that bringing happiness to others with my knowledge and empathy is truly an incomparable godsend.

I believe that success is where preparation and opportunity meet. That is why I always want to learn more and prepare better. I am not very into sports. However, I have plucked up my courage to step out of my comfort zone, and I am now learning to play badminton. I am also weak in mathematics and science. However, understanding my weaknesses does not mean I will keep seemingly formidable tasks at arm's length. Instead, I have been exerting myself to surmount the difficulties and grabbing every opportunity to equip myself with different skills and abilities. I believe that grasping the precious chance to study at Tsinghua University as an exchange student will offer me an eye-opening experience, allowing me to gain better insight into the real estate industry and polish my skills, especially my technical skills and people skills.

Learning is never just about bookish knowledge and academic results. There are many important life lessons to be learnt. For instance, how to become a good leader, handle emergencies, and give pragmatic solutions when overcoming hardships. Gratefully, PolyU has offered me adequate resources and opportunities to unleash my potential and motivate me to strive for the best even when there are obstacles.

After all, what makes people successful is their attitude towards life. I am ready to take up challenges as they pave the way for improvement. Chasing dreams is not an easy task. However, I am prepared to overcome the stumbling blocks in the journey with conscience, courage, and a clear heart."

Warmest Welcome to New Colleagues!



Dr Li Xiao

*Research Assistant Professor
(Construction Industrialization)*

Teaching areas : Research Methods; Maintenance Management & Operation

Research interests : Industrialized Construction; Construction Informatics

"I am thrilled to come back and unlock my academic profession in BRE. BRE is a warm, supportive, diversified, and very efficient family, where I had my PhD journey. I am also very honoured to work again with BRE's venerable scholars and professional staff. I look forward to contributing impactful research in the area of industrialised construction and construction informatics. And I also devote myself to transferring knowledge to education and teaching for fostering next-generation talents in the field of construction and real estate."



Dr Weng Yiwei

*Assistant Professor
(Construction and Real Estate Technology)*

Teaching areas : Construction Technology and Materials, Maintenance Technology and Management

Research interests : Digital Construction, 3D Concrete Printing, Construction Materials, Building Information Modelling

"I am very excited to join the Department of Building and Real Estate (BRE) as an Assistant Professor to commence my academic career. BRE is excellent with excellent colleagues, talented students, and a warm atmosphere. My research focuses on digital construction, emerging important research and development direction in the construction sector. I look forward to collaborating with colleagues in conducting world-leading research and providing quality teaching to equip BRE students with the multidisciplinary knowledge needed by the future digital construction industry."

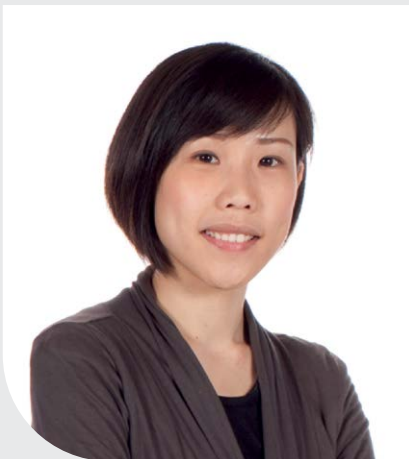
**Dr Yi Wen**

Assistant Professor (Construction and Real Estate Management)

Teaching areas : Construction Project Management, Construction Safety

Research interests : optimisation in construction management, construction safety and health, construction engineering and management.

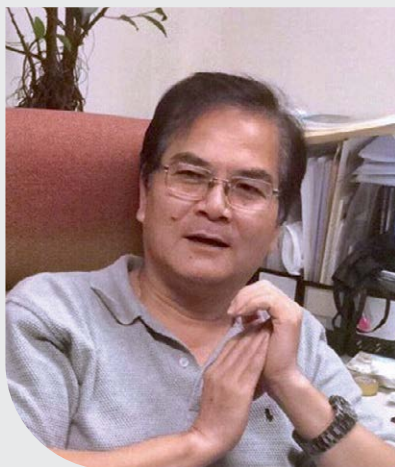
“I am delighted to join the Department of Building and Real Estate (BRE) as an Assistant Professor in Jan 2022. I am as well honoured to work with distinguished colleagues at BRE. I look forward to further contributing to the research areas of construction management and interacting with our talented students here.”

**Chloe Chan**

Executive Officer

I am glad to join the Department of Building and Real Estate (BRE) family. Everyone here is amicable and supportive. I look forward to working with our distinguished professors and colleagues and, at the same time contributing to the team.

Retired Colleagues



Prof. Edwin Chan

Professor

A farmer's boy, following his heart to explore diverse careers worldwide, eventually landed with his most suitable profession as an academic in his home city. Over the 27 years working in the PolyU, I have found sincerity and friendship from colleagues and enjoyment in work. The position has allowed me to integrate and apply my knowledge with passion and, most importantly, to "grow people" as a gardener. The happiest thing in life for a gardener is to see his plants blooming and that someone more capable will appreciate and spread them in future. Retirement is a name given to a phase of life, but aspirations remain the same. I treasure the continuing friendship from you. Best wishes to all!



Dr Ann Yu

Associate Professor

After serving in PolyU BRE for 15 years, I retired on 2 December 2021. It was not easy in the past two years with the social events and COVID-19 Pandemic, which changed the University in many ways, especially the introduction and development of online and hybrid teaching.

I am glad that things are getting back to normal now, and I sincerely wish BRE all the best for the next height in its future development.

I would like to take this opportunity to say thank you very much to all of you for your kind support, assistance, friendship and forbearance with me during the past decade. It is an unforgettable experience to have worked with you.

May God richly bless you in all your walks of life, and please stay in touch!



“ Tang Wing Lam Natalie

BSc (Hons) in Surveying, Year 4

I am very honoured to be one of the student ambassadors this year. Thank you, PolyU and BRE, for providing me with many opportunities to explore and widen my horizons, such as the semester exchange to the UK Oxford Brookes University, the internship in a Shanghai property management company and the service-learning subject about installing solar stations in rural Cambodia. Throughout these experiences, I expanded my social network, gained industry knowledge and understood myself more. Being a student ambassador, I had the chance to share with my fellow schoolmates and prospective PolyU students my experiences and inspiration. I hope they can benefit from my sharing and make good use of their time and PolyU resources!

“ Wong King Ho Alex

BSc (Hons) in Surveying, Year 4

By being a Student Ambassador, my life has undergone a complete change such that I become a more caring, outgoing and empathetic person. Under this programme, we students were given many opportunities to expose ourselves to secondary and tertiary students through various activities like an exchange, speech delivering and video production. We learn to be more open and confident when we step out of our comfort zones, facing people from different social, academic, and cultural backgrounds. Soft skills, e.g. problem solving, teamwork, and critical thinking, facilitate us to develop resilience and benefit our future career development. I am thankful that PolyU provided me with the chance to be one of the members of the Student Ambassador Programme so that I can be a better person to learn and serve society.



“ Yeung Paak To Marco

BSc (Hons) in Surveying, Year 3



It is my great honour to be selected as one of the PolyU student ambassadors this academic year. By participating in department-wide and university-wide activities, I have taken the initiative to serve in various events, resolve secondary students' queries, and share how to achieve a fruitful university life here. I feel pride and gratitude for representing PolyU with these golden opportunities, and the motto "to serve, not to be served" can be put into practice. Being a Student Ambassador fosters my interpersonal communication strategies and leadership abilities. On the other hand, it enhances my social connections as we come from different departments. In the future, I hope I can continue to contribute to PolyU and society with all I have gained from this valuable experience.

Giving

Moving forward to the new era of engagement in a virtual world, our passion for pursuing excellence through innovative education, application-oriented research, and solid global connections keep growing.

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), bspromo@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.

To unlock more opportunities for the future, we look forward to receiving your donation.

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