Message from the Director

A school of architecture in a university represents many things but it is, first and foremost, a place of learning – for open-minded enquiry, innovative explorations and intellectual leadership in our field and profession. At the Chinese University of Hong Kong, the architecture and urban design programmes are structured not merely to train graduates to join the ranks of their current profession, but to educate our students in adapting to the inevitable changes to be encountered during future careers in their profession, as well as defining and formulating it with leadership.

Central to this notion of intellectual leadership is the essential role of architectural research. As one of our past external examiners liked to say, a research programme is the “engine room” of any school of architecture. In recent years, the diverse areas of architectural research by our faculty members and postgraduate research students have been organized into distinct Design Research Units in order to provide research infrastructure, promote mentoring, as well as integrate research and teaching.

This more purposeful alignment and integration of research and teaching in all our programmes has provided more meaningful content to design studio topics, bridged critical thinking and innovative design, enriched the exploration and advancement of knowledge in concentrated areas, as well as provided societal impact and lasting contributions to our built environment, whether via innovative design projects or environmental planning policies, etc.

I am pleased to witness the launch of this publication of the “Grey Book” to highlight both the research directions and accomplishments of our faculty members and postgraduate research students. This volume accompanies the annual publication of the longstanding “Black Book” that documents our teaching curriculum. Together, the two periodical booklets chronicle the aims and ambitions of our School of Architecture to advance practice-driven theory and theory-driven practice.

Nelson Chen FHKIA FAA FRIBA
Professor of Practice in Architecture
Director, School of Architecture
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Design and Technology are inseparable in attaining sustainable design solutions. The Building Technology and Sustainable Design (BTSD) Design Research Unit is based on an understanding that successful architecture is a seamless integration between the two, where comprehensive and innovative solutions can be explored through a broad spectrum of applications, including responses addressing climate, comfort, construction, material resources, and use.

This research-based design platform enables and supports investigations in building technology and sustainability at multiple scales in order to develop integrated design strategies that are appropriate to specific design problems, and that support solutions for the longevity of the built environment. Sustainability is a way of thinking, designing and implementing that informs user-motivated architecture, placing primary value on our environment.

Sustainability and bad design are contradictions in terms. It is the quality of architecture itself that contributes to both personal well-being and longevity of the built environment.

– Matthias Sauerbruch

STUDIO PROJECTS

2017-2018
OrganicCity: A New Territory of Ecological Dwelling
Thomas CHUNG

2016-2018
Constructing Lightness / Fabricating Lightweight
ZHOU Jingxiang

2016-2017
Sustainable Community for Active-aging and Inclusiveness: An Attempt of Co-housing in Design Solutions
TSOU Jin Yeu

2015-2016
Transcultural Understanding of Designing with Climate Change
Edward NG

2014-2015
Vertical City and Lifestyle Living for Sustainable Urbanism
TSOU Jin Yeu

Shelter for Homeland
ZHOU Jingxiang

Top: Award-winning, anti-seismic rammed-earth house designed and built by Edward NG and 1U1V team (2017)
Bottom: Dou Pavilion, 2016 Venice Architecture Biennale, by ZHU Jingxiang
The Design Methodology and Practice (DMP) Design Research Unit is committed to current social issues, construction methods and pedagogical approaches as its agendas. It seeks to rebuild the fundamental bridge between theory and praxis by emphasising the “engaged process” as its principal pedagogical approach to design and research.

Each design studio of DMP addresses a specific research topic through a range of methodical approaches. The process encourages students to analyse and think critically before engaging them to design responsively, as they progress from the experimental and metaphysical towards the concrete and articulated. This pedagogical model reinforces the notions of “research advancing practice” and “practice reinvigorating research”.

Adopting a theme-based research approach, DMP provides a platform of engaged process for faculty members to pursue and undertake initiatives in architecture and related fields, while inviting student participation in its on-going projects, and actively seeking collaborations within and beyond the School.

**STUDIO PROJECTS**

2017-2018
Condition/Together: Collective Housing and the Urban Residential Block
Peter W. FERRETTO

Hong Kong Archive 2037
Patrick HWANG

2016-2017
Transforming Reality: Searching for a Sense of Knowledge
Peter W. FERRETTO

2015-2016
Transmutation: The Post Military-Industrial Complex
Patrick HWANG

Rehabilitation Neighbourhood: The Healing of the Ailing Human Being
Peter W. FERRETTO

2014-2015
Urban Repository, Artifacts and Memories
Patrick HWANG

Pause City: Re-using Residual Spaces
Peter W. FERRETTO

Top: Hong Kong Archive 2037 (2018), MArch 1 studio project by Eric CHUNG Kit Fai; Bottom: Lost Infrastructural Spaces of Hong Kong (2015) by Peter W. FERRETTO, Sungyeol CHOI, Thomas CHEN and Carina CHIN
The Digital Technology and Computational Design (DTCD) Design Research Unit focuses on the impact of computation on the architectural industry, ranging from conceptual design to project implementation and digital fabrication. Through a series of core and elective courses, design studios and thesis projects, students in DTCD are introduced to various aspects of computation, including logics, procedural and algorithmic design methodologies, complex geometry and computational design theory. DTCD re-evaluates generative design methodologies with regard to form, material systems, materialisation strategies, construction detailing and other cross-disciplinary processes. Concepts are developed between design, mathematics, natural systems, and new technological fields.

Ongoing research projects of DTCD explore the strategic appropriation of computational tools within the local construction context of Hong Kong and the Pearl River Delta. This includes projects introducing real-time physics engines and procedural design in the early conceptual design stages of lightweight, bending-active, bamboo grid shell structures that use traditional, locally-available bamboo scaffolding craftsmanship for their implementation. Other studies investigate the computer numerically-controlled production of moulds for concrete casting. In addition, current collaborations with CUHK Department of Mechanical and Automation Engineering and T Stone Robotics Institute research the integration of robotics in a wide range of architectural design and construction applications.

STUDIO PROJECTS
2017-2018
Stratified Ground
Adam FINGRUT
Force Matter 2: Calibration
Kristof CROLLA
2016-2017
Game Theory Centre
Filipe AFONSO
Force Matter
Kristof CROLLA
2015-2016
Flexicity
Filipe AFONSO
2014-2016
Hyper Materialism
Kristof CROLLA
2014-2015
Strategic Interventions and Flexible Urbanism
Filipe AFONSO
The History, Culture and Conservation Design (HCCD) Design Research Unit focuses on architectural history and culture, with specific interests and strengths in the local context of Hong Kong and China, as well as the Asia region. Its current research initiatives engage innovative mapping and photographic analyses at the scales of both architectural projects and urban/landscape settings.

Apart from the urban culture of Hong Kong, recent research projects and design studios of HCCD have worked on Chinese cities such as Beijing, Hankou, Chongqing and Dali, as well as Suzhou Gardens. Studio discussions are informed by several areas of research in history and theory, while urban context and fabric are studied at various scales in order to investigate local constraints as opportunities for formulating design strategies. The intention is to allow students to work on real sites and neighbourhoods, gaining insights of localities through documenting built fabrics and engaging communities, thereby understanding the reciprocity between cultural continuity and inevitable contestations that constitutes the urban process.

**STUDIO PROJECTS**

- **2017-2018**
  - **Shanzhai City: Urban Innovations and Entrepreneurships in Hyperdense Urbanism**
    - Tat Lam

- **2016-2018**
  - **Tourist Facilities in Suzhou**
    - Stanislaus Fung

- **2016-2017**
  - **The Great Beauty: The Design of an Aesthetic Clinic and Fashion House HQ in the Former Slaughterhouse Complex in Rome**
    - Stefano Milani

- **2015-2016**
  - **New OrganiCity: New Territories**
    - Thomas Chung

- **2014-2016**
  - **Eco-Hospitality: Architectural Prototyping for Contemporary Rural China Development**
    - Tat Lam

- **2014-2016**
  - **Tourist Facilities in Dali**
    - Stanislaus Fung

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**FACULTY MEMBERS**

- Stanislaus Fung
- Thomas Chung

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*Top: Value Farm (2013) in Shenzhen, by Thomas Chung; Bottom: On the Thresholds of Space-Making, Kazuo Shinohara exhibition (2016) at ETH Zurich, curated by Seng Kuan*
Urban Design and Landscape Urbanism (UDLU)

Urban Design and Landscape Urbanism (UDLU) Design Research Unit organises research and teaching activities in the areas of urban design and landscape architecture, focusing on sustainable approaches to urban regeneration and new town design with particular consideration of environmental and socio-economic concerns. UDLU centres on Hong Kong, Macau and the Pearl River Delta, while partnering with the International Forum on Urbanism (FoU) and Urban Lab+, and has co-organised events for UN-Habitat’s World Urban Campaign.

At CUHK, UDLU coordinates courses and learning activities between the professional degree programmes in Architecture and the BSc in Urban Studies and MSc in Urban Design programmes, aiming to create dynamic synergies between the related academic fields. In May 2017, UDLU organised UrbanactionsHK, an international symposium and workshop to promote critical debates about how to revitalise public space. It also hosted the 10th FoU Conference “The Entrepreneurial City” in December 2017, and the Association of Commonwealth Universities (ACU) Summer School in July 2018.

STUDIO PROJECTS

2017-2018
Hong Kong City as a Palimpsest: Collective Housing Project in To Kwa Wan
Francesco ROSSINI
2016-2018
Defining Publicness in Infrastructural Architecture: Integrated Designs of Pumping Station (Qianhai) and Water Hub (Airport North), Shenzhen
Doreen LIU
2016-2017
The Entrepreneurial City: Re-envisioning To Kwa Wan, Hong Kong
Hendrik TIEBEN
2015-2016
Architecture as Public Space
Hendrik TIEBEN
2014-2015
Tulou Project
Tat LAM
Spatial Transformation in the Age of Obsolescence
Doreen LIU


FACULTY MEMBERS

Top: Hendrik TIEBEN; Francesco ROSSINI; Bottom: Hendrik TIEBEN

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FACULTY MEMBERS

Top: Hendrik TIEBEN; Francesco ROSSINI; Bottom: Hendrik TIEBEN
Thomas CHUNG Wang Leung
Associate Professor

Thomas Chung researches how architecture contributes to the modern city’s urban order, with respect to the broader cultural ground in question. His research investigates the interchange between “form” (morphology and design) and “experience” (interpretation and production) via two strands: Architecture as cultural production, and Architecture as productive cultivation.

Thomas joined CUHK in August 2006, and has since completed two GRF projects, in which he developed an inter-disciplinary sequence from mapping to interpretive analysis to studying architectural settings and urban process, with respect to the themes of vernacular culture and filmic imagination.

Thomas’ wide-ranging research activities also include comparative urban research collaborations in Hong Kong, Tokyo and Seoul, four Faculty Direct Grants, numerous conference papers, peer-reviewed articles, book publications (e.g., Refabricating City: A Reflection, OUP 2010), local and international exhibitions by HKIA, UABB (HK/ SZ) and Venice Biennales. His current Faculty Direct Grant investigates the “Urban Voids” of North Point, which documents the district’s transformation and engages different stakeholders to explore alternative “creative reuse” strategies in order to propose design-led spatial tactics in the midst of rapid urban change.

Following his international award-winning projects Value Farm (2013) and Floating Fields (2015), Thomas is researching how productive landscape design strategies can combine with social innovation to explore alternative ecological design in urban developments. Floating Fields is the winner of Production, Energy and Recycling – Completed Buildings category at the World Architecture Festival 2016.

Thomas is involved in the Farm HD Programme at RMIT University, a design-led collaborative research project that explores architectural and urban opportunities for high-density farming in Hong Kong. Research outcomes include symposia and exhibitions in Hong Kong and Melbourne, as well as a forthcoming publication examining the socio-economic connections between farming, food, urban amenity, living and working in the city.

RECENT PUBLICATIONS


MA (Cantab)
DipArch (Cantab)
MPhil (Cantab)
RIBA, ARBUK, HKIA

Kristof CROLLA
Assistant Professor

Kristof Crolla researches the impact of computation on the design and production of architecture, focusing on early conceptual stages in architectural design, while also specializing in the merger of advanced technology and traditional craftsmanship in low-tech construction environments. He worked for several years as Lead Architect for Zaha Hadid Architects on non-standard architecture projects involving high-end design and construction processes, and is currently completing his PhD studies at RMIT University’s School of Architecture and Urban Design.

At CUHK, Kristof has conducted his research through numerous grants, exhibitions and design projects. Among his most notable works is his GRF Early Career Grant project on bending-active bamboo shell structures, in which digital physics simulation tools are integrated with traditional Cantonese bamboo scaffolding techniques. Combined with a private research contract, this project led to the construction of “ZCB Bamboo Pavilion” in Kowloon Bay, Hong Kong, which has received 16 international design and research awards, most notably the “Small Project of the Year” Award at the World Architecture Festival 2016. The project resulted in five conference and journal papers, four exhibitions, and was featured on various architecture websites such as ArchDaily and Dezeen, where the project video has been viewed more than 3.3 million times. It also led to an invited bamboo installation at the Hong Kong/Shenzhen 2015 Urbanism/Architecture Bi-City Biennale.

His current PhD thesis, titled “Building Simplexity – The ‘More or Less’ of Post-Digital Architecture Practice”, forms a theoretical reflection on his own creative work that deals with the construction of non-standard architecture in challenging construction contexts with limited means. This academic research received the 2016 RMIT Vice-Chancellor’s Prize for Research Impact – Higher Degree by Research.

Recently, Kristof pushes his research agenda through collaborations with the Department of Mechanical and Automation Engineering at CUHK, which ongoing projects focus on the opportunities computer controlled and robotic fabrication brings to architecture. Prefatory work about low-tech DIY robotics was also exhibited at the Hong Kong/Shenzhen 2017 Urbanism/Architecture Bi-City Biennale.

RECENT PUBLICATIONS


Peter Winston FERRETT
Associate Professor

Peter W. Ferretto studies the notion of “Condition” in his architectural research, vis-a-vis the dichotomy between context and praxis. Context, the background condition we witness but seldom acknowledge, has been Peter’s research topic in relation to several Asian metropolises such as Seoul and Hong Kong, whereas praxis, the making of architecture, is explored via the design of prototypes and building proposals that challenge the status quo. Within this matrix, Peter has developed both a research methodology and a critical position towards the architectural profession over the past 10 years, through publications, exhibitions, award-winning designs and films that have reached an international audience.

Peter worked as a registered architect (ARB) for several international architectural practices, including Herzog & de Meuron in Basel where he oversaw the design and completion of the CaixaForum Madrid Project, before establishing his own firm PWFERRETTO in 2009. He started his academic career in 2007 as a Unit Master at the Architectural Association in London, where he also directed the Seoul Visiting School. In 2009, he was appointed Assistant Professor of Architecture at Seoul National University in Korea, until he joined CUHK as Associate Professor since 2014, where he is also the Director of the Master of Architecture Programme.

Peter is currently conducting two research projects addressing “Condition”: “Urban Pauses: Reclaiming Hong Kong’s Residual Urban Spaces”, a 2016 GRF project exploring how marginalised and lost urban spaces of Hong Kong can be regenerated; and “Adapting Villages: An Architectural Framework for Regenerating Dong Minority Settlements”, a 2017 GRF project investigating alternative micro-strategies to reactivate minority villages in China.

Peter has always kept a close relationship with the profession, and architectural design is at the core of his academic research. He has won numerous international design awards in his career, most notably the 1st Prize for the Busan Opera House Competition (2012), as well as 3rd Prizes for the Hong Kong MTR Public Art (2014), Seun City Walk (2015) and UIA Suncheon Art Platform (2016) competitions.

RECENT PUBLICATIONS


Adam FINGRUT
Assistant Professor

Adam Fingrut is a researcher in architecture with a focus on computational design methods and the integration of robotic systems. He joined CUHK in 2016 as Assistant Professor and is currently teaching graduate-level design studios and courses specifically pertaining to computational design and architectural technology.

Adam began his academic research as Co-investigator of the ZCB Bamboo Pavilion, a large spanning active grid shell structure made entirely from bamboo poles. Two conference papers on the integration of local craftsmanship and digitally driven design and architecture have been produced out of this project, discussing the disparities between computational design in a 3D digital environment and the realities of on-site construction using locally sourced materials and labourers. The ZCB Bamboo Pavilion has received a number of design awards, including a World Architecture Festival Award in 2016.

Adam is currently the Principal Investigator of a research project involving digitally designed, CNC fabricated foam formwork for the purposes of casting concrete, working closely with construction industry leaders towards the study of design, fabrication and installation of refined concrete surfaces. The research seeks to determine thresholds of feasible design and construction constraints in Hong Kong, developing design and construction models using advanced digital tools, whilst optimising computational design and development for CNC fabricated formwork and concrete structures. It develops, documents and tests workflows for the materials, digital design, prototyping, fabrication and installation of CNC milled foam formwork for bare-faced concrete structures.

In 2017, Adam co-launched a research collaboration between the School of Architecture, Department of Mechanical and Automation Engineering, and T Stone Robotics Institute. The interdisciplinary team is advancing research in their respective fields for the development of robotically installed brick structures in full-scale architectural projects. Prototype CNC brick-laying robots have been developed and exhibited at events such as “Industrial Automation Shenzhen” and “World Robot Conference 2017” in Beijing, while recent prototyping iterations have expanded the research to more closely align with real-world construction materials and on-site conditions.

RECENT PUBLICATIONS


Stan Fung is a researcher who has published widely on Australian architecture, contemporary Chinese architecture and Chinese garden history. He is best known for his close readings of Yuan ye, the 17th-century Chinese treatise on gardens, and for his new analyses of extant gardens in Suzhou that re-aligned the experience of gardens with the sensibilities of Chinese painting, in which spatial depth and scale are often indicated in irregular ways. Apart from research papers addressed to specialists, Stan Fung has also brought his work to the attention of design practitioners with contributions to two of the most important edited volumes in contemporary landscape architecture: Recovering Landscape (edited by James Corner) and Thinking the Contemporary Landscape (edited by Christophe Girot and Dora Imhof).

Recent public presentations of his work include keynote addresses at conferences in China and Singapore, a public lecture at the University of Pennsylvania and an invited seminar jointly hosted by the École des Hautes Études en Sciences Sociales and the Musée du Quai Branly in Paris.

Stan’s research work has been supported by grants from the Chiang Ching-kuo Foundation for International Scholarly Exchange in Taipei, the Graham Foundation for Advanced Studies in Architecture in Chicago and the Ian Potter Foundation in Melbourne. He currently holds a GRF grant from the University Grants Committee in Hong Kong.

Stan’s studies of contemporary architecture in Australia and China typically combine his theoretical perspective and close attention to the explication of ideas and construction. Particularly notable is a series of published interviews with some of the finest Chinese architects of the last 30 years – Liu Jiankun, Zhang Ke, and Zhang Lei – which is among the most detailed and probing text of its kind currently available. A recent essay co-authored by Stan and Shanghai architect Shui Yanfei, published in Jianzhu xuebao, the official journal of the Architectural Society of China, attracted more than 27,000 views on WeChat.

Stan has had long editorial associations with a number of journals. He was Founding Editor (with Desley Luscombe) of Fabrications: The Journal of the Society of Architectural Historians, Australia and New Zealand (1988-1992), and has been a member of the editorial boards of Landscript, a book series of the Institute of Landscape Architecture (ILA), ETH Zurich (since 2011), Shidai jianzhu (since 2001) and Chengshi jianzhu (since 2004).

RECENT PUBLICATIONS


Gu Daqing joined CUHK in 1993 and is a scholar of architectural education who has developed both historical perspectives as well as innovative educational practices. The premise of his work is that the studio setting is an arena for the production of innovative practice in architectural education. It is therefore challenging the fundamental belief that conventional settings of architectural research, viz., laboratories or academic institutes, are the loci of innovation, and studios are the passive domains harvesting the fruits of such innovation. In this regard, the pedagogical understandings developed by Daqing are immediately embodied in his educational practices and then recorded in his publications as reflections.

In Daqing’s architectural pedagogy, physical model-making can be a key tool in fundamental design education, which is sharply distinguished from the existing approaches that emphasise drawings and digital representation. This position has been published in several of his books, including Sheji yu shizhijue (Design and Visual Perception, 2004), Jianzhu sheji rumen (Introduction to Architectural Design, 2012), and Kingsin jingou yu sheji (Space, Tectonics and Design, 2014).

Daqing has received a number of GRF grants over the years. While one of his research projects investigated a crucial turning point in the history of Chinese architectural education, another one was a historical study of the diversity of exercises, projects and programmes in architectural education. Two further GRF grants were devoted to modern architecture in Hong Kong.

The impact of Daqing’s work can be found in many architectural schools in contemporary China. In a series of workshops sponsored by the National Supervision Board of Architectural Education (China) since 2011, about 350 educators from nearly 60 schools of architecture have studied under Daqing and many of them have developed related teaching strategies in their schools subsequently.

**RECENT PUBLICATIONS**


Patrick HWANG Cheng Chun
Professional Consultant

Patrick Hwang is a design researcher and professional focusing on creative architectural education. Since 2010, he has been developing an empirical operational theory involving transformative processes through real-world architectural research projects. Within the Master of Architecture design studio setting at CUHK, these projects, seven thus far, have engaged with the issues of collective memory, heritage adaptation and urban revitalisation in the cities of Hsinchu, Mumbai and Hong Kong. The creative design process has resulted in the forms of publication, exhibition, forum, press coverage and impact on policy priorities.

The principal basis for his operational theory involves transforming the everyday into the spectacular through a methodology that couples abstract modelling and drawing with field investigation situated in unfamiliar localities, yielding a number of international collaborations such as recently with National Chiao Tung University of Taiwan, National University of Singapore and Delft University of Technology. Patrick’s interest in design methods, history and theory has also led him to an ongoing five-year research project on the works of French visionary architect and educator Étienne-Louis Boullée, part of which is supported by the Direct Grant of the Faculty of Social Science.

Patrick’s contribution to the curriculum development of the School of Architecture focuses on the design studios at both advanced and foundation levels. Since 2013, Patrick has been serving as MArch Thesis Coordinator to transform the bifurcated year-long study into an integrated research-design project. In 2016, he piloted the School’s first annual summer programme for secondary school students to spur their interest in architecture.

Patrick has over a decade of professional experience in the design of various architectural proposals and built works. He has worked with Rafael Viñoly in New York, as well as Michael Maltzan and Frank Gehry in Los Angeles. At Gehry Partners, he was Associate and a lead architect for the Art Gallery of the Ontario Transformation project. Prior to joining CUHK in 2010, Patrick was Assistant Professor at the University of Arizona. In 2017, he was invited to join as Visiting Faculty at the Department of Architecture of Delft University of Technology. As a design professional, Patrick also serves as a technical committee member at the Hong Kong Institute of Architects and Hong Kong Buildings Department.

RECENT PUBLICATIONS


Hwang, P., ed. Urban Repository: Memories and Artifacts. Hong Kong: School of Architecture, Chinese University of Hong Kong, 2015.
Seng Kuan is an architectural historian specialising in modern Japan. He has written extensively on Japan’s postwar architectural culture, including the “land, water, and sky” trilogy on the Metabolists. He is currently completing books on Kenzo Tange, Kazuo Shinohara and Fumihiko Maki, three of Japan’s most important modern architects whose influences continue to be felt around the world.

Seng’s research projects have been recognised with grants from the Graham Foundation, Japan Foundation, and Association of Asian Studies. A new trajectory in his research concerns the culture of collaboration between structural designers and architects that is unique to Japan, manifesting most recently in the relationship between Sasaki Mutsuro, Toyo Ito and SANAA.

Exhibitions play a major role in Seng’s research methodology. His curatorial works include “Utopia Across Scales: Highlights from the Kenzo Tange Archive” (Harvard Graduate School of Design 2009); “Metabolism: City of the Future” (Mori Art Museum 2011); and “On the Thresholds of Space-Making: Kazuo Shinohara” (Kemper Art Museum 2014; ETH Zürich 2016).

Prior to his work on Japanese architecture, Seng published books and essays on modern architecture and urbanism in China. In 2017, he co-organised “Rethinking Pei: A Centenary Symposium” in collaboration with M+ of West Kowloon Cultural District, Harvard Graduate School of Design and the University of Hong Kong.

Seng has also served in various editorial positions at Tokyo-based journal a+u. Most recently, he edited a monographic issue of the magazine, centering on the work of Belgian practice Architecten de Vylder Vinck Taillieu.
Edward Ng’s research areas are in daylighting, urban climatology and the sustainable environment. He is Associate Director of Institute of Future Cities and team leader on urban sustainability at Institute of Energy Environment and Sustainability – both provide the main administrative and infrastructural bases for his research activities. Supported by various competitive funding sources, agencies and organisations, Edward’s team of 20+ members currently operates on a research budget of around HK$25m.

Edward is Principal Investigator of four ongoing GRF grants. They are: (A) Developing urban planning optimization strategies for improving air quality in compact cities using geo-spatial modelling based on in-situ data; (B) Understanding urban transient human comfort for more pedestrian-friendly design of urban spaces in the summer months of high density tropical cities; (C) A pilot study to establish the future Design Summer Years of Hong Kong that take into account climate change and urban climate for more sustainable urban and building design; (D) Parametric studies of urban morphologies of high density cities and their air ventilation performance under neutral and unstable atmospheric conditions using advanced large-eddy simulations.

Edward collaborates with scholars from many universities including UC Berkeley, University of Cambridge, TU Munich, Tsinghua University and Peking University. He works with many international establishments including the Commission internationale de l’Eclairage, the World Meteorological Organization, the United Nations Environment Programme, Lawrence Berkeley National Laboratory, and Météo France. Edward is an Advisor to the US Department of Energy Meteorological Organization, the United Nations Environment Programme, Lawrence Berkeley National Laboratory, and Météo France. Edward is an Advisor to the US Department of Energy Climate Change and Urban Climate for more sustainable urban and building design; (D) Parametric studies of urban morphologies of high density cities and their air ventilation performance under neutral and unstable atmospheric conditions using advanced large-eddy simulations.

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Ren Chao’s research interests focus on urban climatic application, sustainable architectural design and spatial planning. In particular, she specialises in examining the relationship between urban climate and morphological characteristics, developing an urban climatic mapping system that analyses urbanisation-induced impacts on human thermal comfort and public health in high-density cities. Since joining CUHK in 2012, Chao has published more than 60 items, including 13 referred journal papers and three edited books, and has received 16 research grants and governmental contracts, with a total of nearly HK$17 million of research funding.

Chao’s multi-dimensional, cross-disciplinary research aims to transfer scientific data into new knowledge to address social needs, enhance policy-making and support evidence-based designs. Her studies on sustainable urban environments have led to a number of practical research and government consultancy projects in Hong Kong, Macau, Mainland China, Taiwan, France and the Netherlands.

Chao’s publications on Urban Climatic Map have formed the theoretical basis for her exploration of knowledge transfer from the scientific work of urban climatology to the implementations of urban planning. Her writings have been cited across the fields of urban climatology, urban planning and architecture, with some of them being taught in postgraduate courses at institutions such as the University of Hong Kong, University of Reading, Wageningen University and Technische Universität München.

Since 2015, Chao has extended her research efforts to the global initiative of World Urban Database and Access Port Tools (WUDAPT) through international collaborations, aiming not only to develop a database for urban morphology and address the environmental challenges and sustainable needs of developing regions, but also to form a collaborative research platform for academic-industry-government partnerships. Her research team has completed the WUDAPT database for 60 cities and three regions of China, and has explored its applications through climatic modelling simulations, which outputs have captured the Best Applied UHI Research Award in the 4th International Conference on Countermeasure to Urban Heat Islands. Chao has also been invited to form research collaborations with the Chinese Academy of Sciences and the intergovernmental Group on Earth Observations of the European Commission. Furthermore, her research findings will be applied to the “Digital Belt and Road Initiative – Urban Development” and “Atlas of the Human Planet” projects to refine the scientific understanding of urban built environments and land cover characteristics for sustainable urban development.

RECENT PUBLICATIONS


Francesco ROSSINI
Assistant Professor

Francesco Rossini is a researcher in urban regeneration. His comparative studies focus on Hong Kong and Barcelona, and, more broadly, contemporary Asian cities and informal settlements. He finished his PhD thesis in 2014 on the role of public space in private developments in Hong Kong. The work received a Direct Grant from the Faculty of Social Science in 2015, which allowed him to further investigate place-making in urban settings in Hong Kong. Francesco was recently awarded with a GRF grant, through which he will work on a Public Space District Plan for Central and Sheung Wan in the next three years.

Francesco’s current Direct Grant project researches critical density and the role of public space in Manila, in particular the informal district of Baseco, which is undergoing rapid urbanisation. This research project involves a pilot study to develop alternative urban regeneration strategies that are socially, economically and environmentally sustainable, offering a model for other informal settlements in the city.

Under CUHK’s Outbound Mobility Scheme, Francesco visited the Graduate School of Architecture, Planning and Preservation at Columbia University in 2016. The visit generated a research-based joint design studio between CUHK’s MArch programme and Columbia’s M.S. Urban Planning programme. Titled “City as a Palimpsest”, the collaborative studio reflected on the parameter of density while exploring the possibilities of adding a new layer of collective housing in To Kwa Wan, Hong Kong.

In 2017, Francesco founded UrbanactionsHK, a non-profit initiative to stimulate critical debate and innovative ideas for revitalising public spaces, promoting a comparative discussion of urban practices and urban regeneration strategies. The first step of this initiative was the organisation of the UrbanactionsHK International Symposium and Workshop at CUHK in May 2017.

Together with Miquel Martí and Hendrik Tieben, Francesco recently co-edited the book Learning from Barcelona which reflects on the different urban approaches between Europe and Asia. The publication is the result of a two-year collaboration with the Universitat Politècnica de Catalunya (UPC), Barcelona, featuring academic essays by professors of CUHK and UPC, as well as research outcomes of student work.

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Hendrik TIEBEN
Associate Professor

Hendrik Tieben is an architect and researcher who focuses on urban regeneration, new town design, placemaking and community empowerment. He is currently Director of the MSc in Urban Design programme and Assistant Director of the BSc in Urban Studies programme.

Since joining CUHK in 2006, Hendrik has completed three GRF projects on public space and community life in Hong Kong’s Western District and urban design guidelines of Pearl River Delta cities. In 2013, he combined academic research with community building to develop an urban design and placemaking project, “Magic Carpet – Re-envisioning Community Space in Hong Kong”, in collaboration with Prof Anthony Fung, then Director of the School of Journalism and Communication.

“Magic Carpet” was launched in Sai Ying Pun (2013) and then expanded to Tin Shui Wai (2014) and To Kwa Wan (2016), where the project team worked with secondary schools and NGOs to produce more than 70 video interviews with local residents. These videos express views on urban transformation of the neighbourhoods and were screened at contextually designed yet underused public spaces. “Magic Carpet” has been presented at international exhibitions in Bordeaux, Hong Kong, Rome, Shanghai and Venice. Following the success of the community research project, Hendrik is currently working with local NGOs – Caritas Hong Kong and the Conservancy Association Centre for Heritage – on the “Magic Lanes” public space pilot project in Sai Ying Pun, supported by the Urban Renewal Fund from the Hong Kong SAR Government.

In recent years, Hendrik has expanded his research scope through international collaborations. He has been a partner of the “Density and Intensity – Measuring the Non-measurable” project at Keio University, Erasmus Mundus project “Urban Lab+”, and ANCB The Aedes Metropolitan Laboratory project “Mobilising the Periphery” in Berlin. He also co-organised the Urban Thinkers Campuses for UN-Habitat’s World Urban Campaign and a network event at Habitat III, the UN Conference on Housing and Sustainable Urban Development in Quito.

In addition, Hendrik serves as Executive Board Member of the International Forum on Urbanism, Editorial Board Member of the ICE Urban Design and Planning Journal, as well as Scientific Board Member of the Journal of Public Space, supported by UN-Habitat. He is also a Founding Member and Academic Advisor of the Hong Kong Institute of Urban Design.


Tsou Jin Yeu joined CUHK in 1992, and is Director of the Center for Housing Innovations. His research focuses on urban housing in China, performance-based design technology, design approaches to ageing and gender topics, green building and sustainable urbanism, interdisciplinary and collaborative planning and design methods, as well as computer-aided architectural design.

Jin's major contributions to computational design and curriculum development, especially in architectural education in China, lie in the areas of building information management and performance-based simulation. As a founding member of the Association for Computer-Aided Architectural Design Research in Asia (CAADRIA), Jin has worked with Bill Mitchell and others to diversify the research agenda of the field. He was honoured with the CAADRIA Award in 2016 for his career-long contributions to education and academic research.

For his research on housing, Jin has worked closely with the Chinese Ministry of Construction and played a leading role in shifting the housing terminology from typology to issues of efficiency, effectiveness, affordability and sustainability, as well as contributing to the Chinese national standards for residential elevators issued by the Chinese Ministry of Housing and Urban-Rural Development. In addition, Jin has been convenor of a series of annual conferences on Chinese urban history, bringing together participants from the academia, government and relevant professions.

Jin's green building performance research has led to the establishment of an Air Ventilation Assessment System, which has informed the professional architectural practices in Hong Kong through two Joint Practice Notes and, in Mainland China, through two codes of the China Green Building Council in 2006 and 2014. The impact of his research can be seen in the San Shan New Town in Guangzhou, a 24 sq km development incorporating ideas of low carbon urban planning.

**RECENT PUBLICATIONS**


ZHU Jingxiang
Associate Professor

PhD (SEU)
MArch (SEU)
BArch (SEU)

Zhu Jingxiang is an architectural researcher focusing on the invention of building systems. Since 2008, he has been creating composite building systems using light-gauge steel frames and rigid wooden components, informed by rigorous research. These systems, more than 20 so far, bring together spatial, structural and constructional considerations to respond to exigencies of building in remote regions in East Africa, on the Tibetan plateau, and in the area affected by the Sichuan earthquake in 2008. Some building systems have also been realised in projects in Beijing, suburban Shanghai and at the Venice Biennale.

In nine provinces of China, with six of them in the remote west, more than 20 small-scale buildings using Jingxiang’s systems have been realised, including schools, work stations in nature reserves, tourist centres, and temporary offices for emergency services and international conferences. These projects are well researched and specifically designed for a wide variety of site conditions: a plateau of 4000m above sea level, a ghetto with a major mafia presence, and wetlands where the water level may fluctuate by 4m. Collaborating organisations for these projects include the World Wide Fund for Nature, the Grainneen Bank in Bangladesh and the Chinese Ministry of Forestry.

The work completed so far has resulted in the registration of three patents, with six patent applications pending to date. Thirteen building systems have been published in journals in China, Italy, Japan, Kenya, Korea and Switzerland. Some of them have also been exhibited in Australia, Switzerland, the US and at the 15th Venice Biennale of Architecture. In 2012, the Wall Street Journal recognised the significance of Jingxiang’s work by giving him the China Innovator of the Year Award in Architecture. Jingxiang also received First Prize (Local Academia) in the 2015 Hong Kong Construction Industry Council Innovation Awards.

RECENT PUBLICATIONS


<table>
<thead>
<tr>
<th>Year</th>
<th>Project Title</th>
<th>Principal Investigator(s)</th>
<th>Funding (HK$)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2011-2012</td>
<td>University Grants Committee Research Projects</td>
<td>Thomas CHUNG Wang Leung, Hendrik TIEBEN</td>
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<td>2012-2013</td>
<td>Mechanized Mapping Urban Culture in Hong Kong: An Inter-disciplinary Investigation of Architecture, Urban Process and Filmic Imagination of Central and Taumatei</td>
<td>Thomas CHUNG Wang Leung</td>
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<td>2012-2013</td>
<td>Measuring Community Benefit in Public Space Transformation in Older Urban Districts: A Case Study of Shaueng Won and Sai Ying Pun</td>
<td>Hendrik TIEBEN</td>
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<td>2013-2014</td>
<td>Applying “Local Climate Zone (LCZ)” into High-density High-rise Cities – A Case Study in Hong Kong</td>
<td>Hendrik TIEBEN</td>
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<td>2014-2015</td>
<td>Measuring the Impact of the MTR West Island Line on Public Space and Community Life in Hong Kong’s Western Districts</td>
<td>Hendrik TIEBEN</td>
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<td>2015-2016</td>
<td>Tibetan Vernacular Architecture at the Periphery of the Tibetan Plateau: Architectural Tradition and Cross-cultural Influence in a Region inhabited by Tibetans, Muslims and Han Chinese</td>
<td>HO Puay Peng, Maggie HUI</td>
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<td>2016-2017</td>
<td>Investigating the Urban Design Guidelines of the PRD Cities: Guangzhou, Hong Kong, Macau and Shenzhen</td>
<td>Hendrik TIEBEN</td>
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<td>2017-2018</td>
<td>Building Envelope Performance Design and Construction: Application of Sustainability Principles to Building Envelope Design for Public Housing in Hong Kong</td>
<td>Edward NG Yan Yung</td>
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<td>2018-2019</td>
<td>Urban Pauses: Reclaiming Hong Kong’s Residual Urban Spaces</td>
<td>Peter W. FERRETTO</td>
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<td>2018-2019</td>
<td>Developing Urban Planning Optimization Strategies for Improving Air Quality in Compact Cities Using Geo-spatial Modelling Based on In-situ Data</td>
<td>Edward NG Yan Yung</td>
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<td>2019-2020</td>
<td>From Drawings and Photographs to Digital Representation: A Pilot Study of Four Suzhou Gardens Using 3-D Laser Scanning</td>
<td>Stanislaus FUNG</td>
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<td>2020-2021</td>
<td>Bend-able Bamboo Shell Structures: Methods and Guidelines for Best Architectural Design Practice</td>
<td>Kristof CROLLA</td>
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<tr>
<td>2021-2022</td>
<td>Architectural Design and Building of Light-weight, Bend-able Bamboo Shell Structures for Hong Kong Using Live Physics Engines</td>
<td>Edward NG Yan Yung</td>
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<tr>
<td>2023-2024</td>
<td>A Study of “Local Climate Zone (LCZ)” of Sub-tropical China’s Pearl River Delta (PRD) Region by Using the World Urban Database and Access Portal Tools (WUDAPT) Method for Better, Comfortable Living and Sustainable Urban Planning</td>
<td>Ren Chao</td>
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<td>2024-2025</td>
<td>Climate-responsive Planning and Action for Mitigating Heat-related Health Risk at Community Level in High-density Cities – A Case of Hong Kong</td>
<td>Edward NG Yan Yung</td>
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<tr>
<td>2025-2026</td>
<td>A Critical Reflection on the Conservation and Revitalisation of Modern Architecture in Hong Kong through a Comparative Approach from a Global Perspective</td>
<td>Francesco ROSSINI</td>
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<td>2026-2027</td>
<td>Bend-able Bamboo Shell Structures: Methods and Guidelines for Best Architectural Design Practice</td>
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<td>2027-2028</td>
<td>A Pilot Study to Establish the Future Design Summer Years (DSYs) of Hong Kong that Take into Account Climate Change and Urban Climate for More Sustainable Urban and Building Design</td>
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<td>2029-2030</td>
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<td>2030-2031</td>
<td>A Perspective of Hong Kong’s Urban Development and Urban Climate (1960-2030) – A Historical Context for Future Actions</td>
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<td>2031-2032</td>
<td>Applying “Local Climate Zone (LCZ)” into High-density High-rise Cities – A Case Study in Hong Kong</td>
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<td>2032-2033</td>
<td>Toward Resilient, Floodable City Creating Floodable Spaces as an Alternative Approach to Flood Hazard Mitigation in Existing High-density Urban Areas</td>
<td>Liao Kuei Hsien</td>
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<td>2033-2034</td>
<td>Building Envelope Performance Design and Construction: Application of Sustainability Principles to Building Envelope Design for Public Housing in Hong Kong</td>
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<td>2035-2036</td>
<td>A Study of “Local Climate Zone (LCZ)” of Sub-tropical China’s Pearl River Delta (PRD) Region by Using the World Urban Database and Access Portal Tools (WUDAPT) Method for Better, Comfortable Living and Sustainable Urban Planning</td>
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<td>2036-2037</td>
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<td>2037-2038</td>
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</table>

*Early Career Scheme
Other External Grants

2012-2013

Hendrik TIEBEN
Magic Carpet – Re-envisioning Community Space in Sai Ying Pun (Knowledge Transfer Fund, CUHK, HK$400,000)

2013-2014

Hendrik TIEBEN
Urban Dialogue: Taipei x Hong Kong

Wallace CHANG Ping Hung
Architectural and Associated Consultancy Services for Revitalisation of How Par Mansion into How Par Music Farm (Design 2 (HK) Ltd., HK$1,800,000)

Kristof CROLLA
Bamboo Pavilion Project (Zero Carbon Building Ltd., HK$507,925.44)

HO Puay Peng
Provision of Consultancy Services for Maintenance Works to Tat Yan Study Hall, Shing Tao Tsuen, Yuen Long (Gung Shing Tong, HK$120,000)

Minjung MAING
A Study of Impact of Building Envelope on Urban Outdoor Thermal Environment (Hong Kong Construction Industry Council, HK$990,000)

REN Chao
The Web-based Platform for Visualizing Impact of Urban Design on Local Urban Climatic Condition (UGC Teaching Development Grant, HK$75,000)

Hendrik TIEBEN
Magic Carpet – Re-envisioning Community Space in Tin Shui Wai (Knowledge Transfer Fund, CUHK, HK$300,000)

Wallace CHANG Ping Hung
Consultancy Service – “E-pathy City” Project (Leisure and Cultural Services Department, HKSAR Government, HK$381,176)

Thomas CHUNG Wang Leung
Consultancy Service – “E-pathy City” Project (CASTLE Peak Hospital Architectural Study (CASTLE Peak Hospital, HK$48,000)

HO Puay Peng
Provision of Consultancy Service for Restoration Works to Tat Yan Study Hall, Shing Tao Tsuen, Yuen Long (Gung Shing Tong, HK$120,000)

Minjung MAING
A Study of Impact of Building Envelope on Urban Outdoor Thermal Environment (Hong Kong Construction Industry Council, HK$990,000)

REN Chao
The Web-based Platform for Visualizing Impact of Urban Design on Local Urban Climatic Condition (UGC Teaching Development Grant, HK$75,000)

Hendrik TIEBEN
Magic Carpet – Re-envisioning Community Space in Tin Shui Wai (Knowledge Transfer Fund, CUHK, HK$300,000)

2014-2015

Wallace CHANG Ping Hung
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Kristof CROLLA
Bamboo Pavilion Project (Zero Carbon Building Ltd., HK$507,925.44)

HO Puay Peng
Provision of Consultancy Services for Maintenance Works to be Carried Out at No. 71, San Wai Tsuen, San Tin, Yuen Long, N. T. (Dr. Kan, Owner of No. 71, San Sai Tsuen, HK$140,000)

HO Puay Peng
Heritage Consulting Services for University of Chicago – University of Chicago Centre – Mt. Davis, Hong Kong (Bing Thom Architects Inc., HK$105,000)

HO Puay Peng
Provision of Conservation Management Plan for Fat Tat Tong (Antiquities and Monuments Office, HKSAR Government, HK$300,000)

HO Puay Peng
Provision of Consultancy Services for Restoration Works to Tat Yan Study Hall, Shing Tao Tsuen, Yuen Long (Gung Shing Tong, HK$120,000)

Minjung MAING
A Study of Impact of Building Envelope on Urban Outdoor Thermal Environment (Hong Kong Construction Industry Council, HK$990,000)

REN Chao
The Web-based Platform for Visualizing Impact of Urban Design on Local Urban Climatic Condition (UGC Teaching Development Grant, HK$75,000)

Hendrik TIEBEN
Magic Carpet – Re-envisioning Community Space in Tin Shui Wai (Knowledge Transfer Fund, CUHK, HK$300,000)

2015-2016

Wallace CHANG Ping Hung
Consultancy Service – “E-pathy City” Project (Leisure and Cultural Services Department, HKSAR Government, HK$381,176)

Thomas CHUNG Wang Leung
Consultancy Service – Castle Peak Hospital Architectural Study (Castle Peak Hospital, HK$48,000)

HO Puay Peng
Provision of Consultancy Service for Maintenance Works to the Repair and Restoration of Roof, Terrazzo Floor and Associated Repair Work at Hooper Hall at Municipal Services Staff Recreation Club at 4 Wylie Path, Kwun Tong (Municipal Services Staff Recreation Club Ltd., HK$180,000)

HO Puay Peng
Provision of Consultancy Services for Restoration Works to Tat Yan Study Hall, Shing Tao Tsuen, Yuen Long (Gung Shing Tong, HK$120,000)

Minjung MAING
A Study of Impact of Building Envelope on Urban Outdoor Thermal Environment (Hong Kong Construction Industry Council, HK$990,000)

REN Chao
The Web-based Platform for Visualizing Impact of Urban Design on Local Urban Climatic Condition (UGC Teaching Development Grant, HK$75,000)

Hendrik TIEBEN
Magic Carpet – Re-envisioning Community Space in Tin Shui Wai (Knowledge Transfer Fund, CUHK, HK$300,000)

Edward NG Yan Yung
One University One Village - Earth Building (Chan Cheung Mun Chung Charitable Fund Ltd., HK$3,000,000)

REN Chao
Towards Urban Planning Strategies to Improve the Thermal Environment in High-density Cities Based on Better Understanding and Extraction of the Urban Morphology in the WUDAPT Framework (Germany/Hong Kong Joint Research Scheme 2016/17, HK$89,400)

2016-2017

Adam FINGRUT and Kristof CROLLA
CNC Foamwork for Pre-Fabricated Concrete Casting (Chun Wo Building Construction Ltd., HK$200,000)

Thomas CHUNG Wang Leung
Consultancy Service – Castle Peak Hospital Architectural Study (Castle Peak Hospital, HK$48,000)

HO Puay Peng
Provision of Consultancy Service for Maintenance Works to the Repair and Restoration of Roof, Terrazzo Floor and Associated Repair Work at Hooper Hall at Municipal Services Staff Recreation Club at 4 Wylie Path, Kwun Tong (Municipal Services Staff Recreation Club Ltd., HK$180,000)

HO Puay Peng
Research Project: Traditional Chinese Architecture and Adaptive Reuse Projects in Hong Kong (Antiquities and Monuments Office, HKSAR Government, HK$255,000)

HO Puay Peng
Heritage Conservation Consultancy Service in the Project “Conservation of the Former French Mission Building for Accommodation Use by Low-related Organization(s) and Related Purposes” (Design 2 (HK) Ltd., HK$2,000,000)

Edward NG Yan Yung
One University One Village - Earth Building (Chan Cheung Mun Chung Charitable Fund Ltd., HK$3,000,000)

REN Chao
Towards Urban Planning Strategies to Improve the Thermal Environment in High-density Cities Based on Better Understanding and Extraction of the Urban Morphology in the WUDAPT Framework (Germany/Hong Kong Joint Research Scheme 2016/17, HK$89,400)

2017-2018

Edward NG Yan Yung and REN Chao
PLEA2018: Smart and Healthy within the 2-degree Limit (Environment and Conservation Fund, HK$500,000)

Hendrik TIEBEN
Magic Lanes, in collaboration with Caritas Hong Kong, CACHe and Melissa Cate Christ (District Urban Renewal Fund, HK$5,000,000)
Faculty Direct Grants

2011-2012

Esther LORENZ
Mechanized Pedestrian Movement in Hong Kong and its Impact on Architecture and Urban Design

Marc Aurel SCHNABEL
Digital Bi-tonal Architectural Depiction

Marc Aurel SCHNABEL
Digital Fabrication in Architectural Design

GU Daqing
The Development of a Process-based Method of Formal Analysis and Its Application in Architectural Study

2012-2013

Marisa YIU Kar San
Multi-tasking Spatial Infrastructures and Sustainability Practices of Hong Kong NGO's: A Study of the Urban and Architectural Programmatic Typologies and Communities in Hong Kong

REN Chao
A Pilot Study on the Urban Heat Island Effect of Hong Kong High Density Urban Areas by Utilizing the Weather Research and Forecasting with its Urban Canopy Model (WRF-UCM)

Marc Aurel SCHNABEL
The Virtual Campus Project: Collaborative Virtual Architectural Environments

Marc Aurel SCHNABEL
Outdoor Thermal Comfort for Three Zones of a Street: Influence of Aspect Ratio and Orientation - Longitudinal Study

2013-2014

LIAO Kuei Hsien
Urban Design for Flood Resilience of Asian Cities - Learning from Local and Traditional Adaptation Strategies

REN Chao
Outdoor Thermal Comfort in High-density Urban Areas of Subtropical cities – A Pilot Study in Hong Kong by using Numerical Modelling of Three-dimensional Radiant Flows and Mean Radiant Temperature

Marc Aurel SCHNABEL
Outdoor Thermal Comfort for Various Building Types in Sydney (Australia): A Longitudinal Study

Stanislaus FUNG
Spatial Analyses of Two Suzhou Gardens: Zhuo Zheng Yuan and Liu Yuan

Jenny LOVELL
Building Envelope: Building Occupant

2014-2015

LIAO Kuei Hsien
Urban Streams and Rivers as Green Infrastructure in High-density Asian Cities: An Empirical Study on Hong Kong, Taipei and Singapore

Francesco ROSSINI
SOS – Seating for Socializing: A Temporary Urban Device to Revitalize Hong Kong Public Spaces

2015-2016

Peter W. FERRETTO
Reactivating the Social Spaces of Chinese Ethnic Minority Villages: The Hunan Dong Minority Village

Adam FINGERUT
Responsive Architecture with Computationally and Mechanically Driven Systems

Thomas CHUNG Wang Leung
A Pilot Study in Investigating the Metabolism of Hong Kong's Urban Worlds: From Mapping to Creative Reuse of Vacant Spaces in North Point

Kristof CROLLA
Geometrically Complex Architectural Structures Produced by Large-scale Cable Robots

Filipe AFONSO
Potentials for the Design of an Agglomerated Cork Non-standard Modular Façade System Applied to High-rise Construction in Hong Kong

Minjung MAING
Urban Vertical Greening Typologies for Low-rise and High-rise Housing Developments in High-density Living Environment

Francesco ROSSINI
Vertical Density and Informal City: the Role of Public Space in the Urban Regeneration of Manila’s Districts

TSOU Jin Yeu
Study of the Impact of Existing Hyper-density Housing Development on Urban Heat Island of Hong Kong

2016-2017

REN Chao
A Pilot Study on Outdoor Thermal Sensation, Comfort and Preference in Public Open Space of Sub-tropical High-density Cities

Stanislaus FUNG
The Image of Architects in Chinese Architectural Journals: The Case of Shida jianzhu, 1993-2013
### MPhil and PhD Students

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<tr>
<th>BTSD</th>
<th>Edward NG</th>
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<td>WAN Li</td>
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<td>Kevin Lau Ka Lun</td>
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<td>HAN Ruoyi</td>
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Study of Built Environmental Sustainability Assessment of Poor Rural Areas of Southeast China (PhD, 2013)

Projecting Future Air Temperature of Hong Kong for the 21st Century and its Implications on Urban Planning and Design (PhD, 2014)

Integrated Urban Climatic Sensitive Strategies for High Density Urban Planning and Design: A Case Study in Hong Kong (PhD, 2014)

Investigation of Context Sensitive Thermal Comfort in Urban Open Spaces: A Study in Xi'an (PhD, 2016)

Mapping the Air Pollution in High-density Urban Environments of Hong Kong for Environmental Urban Planning and Design Using Land Use Regression Approach (PhD, 2016)

Design for Outdoor Comfort: Microclimate Effects of Urban Trees under Different Sky View Factors in Subtropical High-Density Cities (PhD, 2016)

Predicting Outdoor Thermal Comfort in High-density Urban Environment Based on View Factor Method in Radiative Energy Transfer (MPhil, 2017)

Extraction of Urban Morphology of China from Open Data and its Applications in Resilient Urban Planning (PhD, ongoing)

Assessment of Urban Green Space Provisions for Developing Healthy Living Environment in Subtropical High-density Cities (PhD, ongoing)

Flood Memory – Learning From Flood Experience (PhD, ongoing)

Urban Climate Simulation of Hong Kong and its Implications on Future Urban Developments (PhD, ongoing)

A Building Performance-based Energy Modeling for Urban Sustainable Renovation (PhD, ongoing)

Mapping and Improving Outdoor Thermal Comfort through Spatial and Temporal Analysis (PhD, ongoing)

Surface Heat Island and its Relationship to Urban Expansion in Chinese Cities (PhD, ongoing)

How Building Environment Affect Human Emotion and Stress Level? – A Pilot Study in High-density City (PhD, ongoing)

Planning Strategies for Urban Heat Island Mitigation: An Application of Local Climate Zone into the High-density City of Hong Kong (PhD, 2016)

"Better" Anti-seismic Rammed-earth Buildings for Rural Areas of Southwest China (PhD, ongoing)

Meanings of the Built Environment and Power Behind Changes of Rural Spaces in China’s Nu River Valley (PhD, ongoing)

Experimental Research and Engineering Practice on Bamboo Bridge in China (PhD, ongoing)

Forming a Bay Window Issue, Case and Design (PhD, 2014)

Digital Exploration on Graphic Statics: its Attribute Matrix, Interactive Application and Basic Algorithm (PhD, 2016)

Construction as Design Generator: The Evolutionary Process of Material, Structure and Space Integration (PhD, ongoing)

An Exploration of the Definition of Blocks in Construction and Architectural Context (PhD, ongoing)

An Exploration of the Definition of Blocks in Construction and Architectural Context (PhD, ongoing)

Modernizing Log Construction System: A Study on Building Technology Advancement and Relevant Design Strategy (PhD, ongoing)

The Characteristics of Modern Architecture in Hong Kong, 1930s-1970s (PhD, 2015)

The Transplantation of an Architectural Pedagogy – The Zurich Model and Its Developments in China (PhD, 2017)

The Polytechnic Model in China's Architectural Education – Its Evolution, Characteristics and Contemporary Challenges (PhD, 2018)
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<thead>
<tr>
<th>DMP</th>
<th>GU Daqing</th>
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<th>The Western Origins of the Composition Pedagogy and its Evolution in China's Architectural Education (PhD, 2018)</th>
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<td>XU Liang</td>
<td>Narrative-based Design Pedagogy in China's Architectural Education: Its Transplantation, Characteristics and Impact (PhD, ongoing)</td>
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<td>Climate Impacts under Different Urbanization Modes and Planning Mitigation – An Example of Zhongshan City (PhD, ongoing)</td>
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<td>LI Xiang</td>
<td>Design Strategies for “Age-In-Place” Based Age-friendliness Improvement of Built Environment in Urban Renewal under High-density Development (PhD, ongoing)</td>
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<td>TSOU Jin Yeu, Kristof CROLLA</td>
<td>WANG Sining</td>
<td>Workflow of Contemporary Digital Design, Fabrication and Assembly Industry in Chinese Architecture Environment (PhD, ongoing)</td>
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<td>HCC</td>
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<td>The Transition of Chinese Architectural Direction Conception in Early Periods of Western Han Dynasty (PhD, 2013)</td>
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<td>LAU Leung Kwok</td>
<td>Adaptive Modern and Speculative Urbanism: The Architecture of the Credit Foncier d’Extrême-Orient in Hong Kong and China’s Treaty Ports, 1907-1959 (PhD, 2014)</td>
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<td>CAI Jiajun</td>
<td>The Aesthetics of Simplicity and Subtlety – Late-Ming Scholar's Self Cultivation in Art and Design (PhD, 2015)</td>
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<td>DU Ruijie</td>
<td>A Critical History of the Concept of Authenticity within the Professionalization of Chinese Architectural Conservation (PhD, 2017)</td>
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<td>Heaven-made Inheritances: The Xin-Yuan Architectural Patterns and Their Adaptations in Late Imperial China (PhD, 2017)</td>
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<td>Stanislaus FUNG</td>
<td>Structural Design in Contemporary Chinese Architecture (PhD, ongoing)</td>
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<td>Soundscape in Classical Chinese Gardens (PhD, ongoing)</td>
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<td>Rock and Rockery in Song Dynasty (PhD, ongoing)</td>
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<td>Stanislaus FUNG, Thomas CHUNG</td>
<td>LYU Rujie</td>
<td>Mid-twentieth-century Houses by Richard Neutra (PhD, ongoing)</td>
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<td>Stanislaus FUNG, HO Puay Peng</td>
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<td>UDLU</td>
<td>Hendrik TIEBEN</td>
<td>Mika SAVELA</td>
<td>The Urgent Modernity – Reviewing Displays of New Urban China amidst the Curatorial Turn and Global Biennialization (PhD, 2016)</td>
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<td>Alexander ZIPPRICH</td>
<td>Designing the University with City – A Study of Campus Typologies Emerging with Urbanization: The Architecture and Space of Hong Kong’s Universities in the Context of Time and Place (PhD, 2017)</td>
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<td>CHEN Fei</td>
<td>Transformation of Public Participation in Urban Renewal, HKCSS (2001-) (PhD, ongoing)</td>
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<td>Socio-spatial Dynamic, Community Transformation and Everyday Practice: A Spatial Anthropology of Boat People’s Settlement, Xiamen (1910s-2010s) (PhD, ongoing)</td>
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<td>GENG Yan</td>
<td>From Rural Settlement to Urban Farm – A Comparative Study of Village Transformations in Hong Kong and Shenzen (PhD, ongoing)</td>
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<td>Hendrik TIEBEN, Thomas CHUNG</td>
<td>HUANGFU Wenzhi</td>
<td>Between Seeing and Being Seen: Understanding a Social Logic Based on Asymmetry of Single-Vision Interaction (ASVI) in Built Space and its Application in Space Analysis (PhD, ongoing)</td>
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<td>Hendrik TIEBEN, Peter W. FERRETTI</td>
<td>LUO Jing</td>
<td>Farm Fellows Body: The Changing Relationship between Human Body and Modern Chinese Architecture after the PRBs and its Impact on &quot;New Style Of Tong&quot; (PhD, ongoing)</td>
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<td>Hendrik TIEBEN, HO Puay Peng</td>
<td>HUI Cheung Man Charmaine</td>
<td>Ontological Politics: the Discursive Construction on Built Heritage Conservation in Hong Kong (PhD, ongoing)</td>
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Organiser: Prof. HO Puay Peng

Modern study of East Asian architectural tradition began slightly more than a century ago, pioneered by Japanese scholars with groundbreaking research and publications of ITO Chuta (1868-1954) in 1893, and followed by Chinese architects in the early 20th century such as LIANG Sicheng (1901-1972), LIU Dunzhen (1897-1968) and others. Since then, the field has expanded tremendously both in scope and methodology. What can we learn from the research achievement and experience from this important period of development? The 2012 International Conference on East Asian Architectural Culture at CUHK was organised not only to grasp the current state of the field, but also to project issues into the future. Encompassing a common root in architectural tradition, similar trajectory of development, and much cross-fertilisation in the past century, how can we collaborate further in the realm of East Asian architectural studies? The 2012 EAAC International Conference aimed to provide an opportunity for the academia in this vast field of research to face the challenges and look beyond.

International Forum on Urbanism (IFoU)
19 January - 2 February 2013
Organiser: Prof. Hendrik TIEBEN

Initiated by CUHK in collaboration with the International Forum on Urbanism (IFoU), the 2013 IFoU Winter School aimed to produce, in parallel with the work being developed for Hung Shui Kiu by various public and private bodies, a set of radical proposals for the future of the proposed new town. These proposals were evaluated regarding not only their potential sustainability but also their broader intentions that could make Hung Shui Kiu an “ideal city” on a par with Hong Kong, in terms of aesthetics, distinctive identity, sense of place, diversity and quality of urban life. Participating students were asked to make strategic urban design proposals addressing the whole site of the “New Development Area”, before creating conceptual proposals for different sectors and designing sub-themes within the overall strategy. While Hong Kong’s new towns have overall been bland and generic, Hung Shui Kiu must aim to be an “ideal city” for the new generation.

Symposium: Switzerland – Hong Kong: Energy for Urbanized Societies
1 June 2013
Organiser: Prof. TSOU Jin Yu

The event was co-hosted by the Consulate General of Switzerland in Hong Kong and School of Architecture, CUHK, and provided a platform for scholars and professionals in architecture and energy of Hong Kong and Switzerland. The panel of renowned participants were challenged to address the following points:

• CO2 emissions have now reached unprecedentedly high levels in history. Can this trend be halted? Is the reversal possible?
• Alternative energy has been promoted by nearly all the industrialised countries. Can this be the solution or only a factor among many to stop climate change?
• What is Clean Tech or Green Building technology? Are these technologies offering solutions to achieve the Kyoto Protocol emissions targets?
• Can design and architecture provide solutions to reduce energy consumption and the release of greenhouse gases into the atmosphere?
• What is intelligent building technology?
• Does better building insulation help to reduce carbon footprint?

47th International ASA-Conference “Cutting Edge in Architectural Science”
16 November 2013
Organisers: Prof. Marc Aurel SCHNABEL, Prof. TSOU Jin Yu, Dr. Henry SKATES, and Prof. Richard HYDE

We are facing unprecedented challenges in our natural and human-made cultural, social and built environments. Working at the intersection of human needs, creative innovation, education, critical thinking, computing, science, design and technology, practitioners and researchers in Architectural Science have been uniquely placed to engage with these challenges and frontiers. Architecture is no longer an organisation of matter and space, but systems with multi-layered components and increasingly complex relationships. The 47th International ASA-Conference hosted by the School of Architecture aimed to present cutting-edge developments, relevant discourses and, possibly, appropriate cures. It explored and raised awareness of the need of crossing disciplinary boundaries and reaching creative communities at all levels of expertise, by pooling resources, knowledge and practices, and integrating them into the discipline of applied architectural research and science.
Macau have in common with cities which are on the frontier of mainland China?" and "What are the common frameworks that bind the developmental cities of today?". The programme is the first-of-its-kind collaboration between GSD and AECOM. Macau was one of the case studies conducted by the programme. Prof. Christopher Lee and participating students travelled to the city from September to December 2013, and held workshops with local planners, architects, professors and fellow students to study the sites, discuss issues facing the city and look at possible design approaches. Students also toured the city to understand its unique culture, history and urban condition.

The exhibition aimed at facilitating exchange of ideas among leading academics, practitioners and students on architectural typologies and common emerging urban frameworks found in developmental cities.
Background City – International Architectural Conference
17 - 18 December 2015
Organiser: Prof. Peter W. FERRETTI

The first Background City International Conference at CUHK aimed to re-awaken a sense of wonder in the present, nullify the effects of collective urban amnesia, and ignite critical considerations to the role of the anonymous city in our society.

Contemporary cities never start nor end, rather they continuously adapt, mitigate and mutate to remain relevant, to examine the role of what our cities are, rather than what they might become.

The Hong Kong Graduate Conference in Architectural Research 2016
1 - 2 April 2016
Organisers: Prof. Stanislaus FUNG and PhD Students in Architecture

This conference brought together research postgraduate students from 10 architectural schools to foster discussions on current research with a focus on the architectural humanities.

Four academic visitors from overseas attended this event, with Prof. Jin BAEK from Seoul National University delivering the keynote address. Prof. Yoonchun FUNG of Kwangwoon University, Dr. JANG Bing, Associate Editor-in-Chief of El Croquis magazine (Chinese-English Edition) and Ms. WANG Hanni, an editor from Jianshuxuandao (official journal of the Architectural Society of China), gave special presentations. A highlight of the conference was a talk on rare books on architecture in the collection of the CUHK Architecture Library by Prof. HO Puay-peng, Director of the Centre for Architectural Heritage Research.

Symposium on Teaching Architectural History and Theory 2016
16 - 17 June 2016
Organiser: Prof. Stanislaus FUNG

This symposium brought together architects educators and research postgraduate students to discuss issues related to teaching architectural history and theory, ranging from pedagogical objectives and modes of teaching, to assignment work, assessment and learning outcomes.

Five overseas academic visitors traveled to Hong Kong to attend this event: Prof. Norihito NAKATANI (Waseda University) delivered a keynote address on the relationship between his research and teaching activities. Prof. XU Sulin (Tianjin University) presented aspects of her elective course for master’s students on the conservation of Asian cultural heritage. Prof. LEE Kah Wei (National University of Singapore) discussed his core course on history and theory of urban planning for his master’s students. Prof. WU Ping-Sheng (National Cheng Kung University, Tainan) examined the relationship between seeing and thinking two courses. Prof. FENG Jie (National Cheng Kung University, Taiwan) presented aspects of a postgraduate course on architectural theory. Three CUHK courses were presented by Prof. HO Puay-peng and Prof. Stan FUNG at this symposium.

“Agency and Resilience” – 10th Conference of the Pacific Rim Community Design Network
15 - 17 December 2016
Organisers: School of Architecture (Prof. Hendrik TIEBEN and Department of Geography and Resource Management, CUHK).

The CUHK Urban Studies Programme, jointly organised by the Department of Geography and Resource Management and the School of Architecture under the Faculty of Social Science, hosted the 10th conference of the Pacific Rim Community Design Network in 2016.

With the theme of “Agency and Resilience”, the event was held for urban planners, designers, academics and professionals around the world to explore theories, designs and practices related to resilience in diversified spatial and temporal settings, addressing environmental, social and economic challenges at both local and global levels, such as climate change and socio-spatial polarisation.

Hong Kong Urban Thinkers Campus
2.0 – An Event of the UN-Habitat World Urban Campaign
1 April 2017
Organisers: School of Architecture (Prof. Hendrik TIEBEN), Department of Geography and Resource Management, and Institute of Future Cities, CUHK

The Urban Thinkers Campus is an initiative of UN-Habitat’s World Urban Campaign, conceived as an open platform for critical exchange on current urban challenges and trends as well as proposing a new urban paradigm.

The HK SAR Government had undertaken a six-month consultation process on the sustainable urban development of the city towards 2030 and beyond. Meanwhile, the adoption of the New Urban Agenda at the United Nations Conference on Housing and Sustainable Urban Development (Habitat III) in October 2016 presented a critical framework elaborating related ideas.
In this context, a major objective of the Urban Thinkers Campus was to provide a forum for discussion regarding Hong Kong’s urban future, as part of the Hong Kong 2030+ consultation process.

**FARM HD – Hong Kong Symposium**

5 April 2017

Organisers: School of Architecture, CUHK (Prof. Thomas CHUNG) and RMIT University

As part of the FARM HIGH DENSITY programme at RMIT University, this symposium presented research and design projects that explored the architectural and urban opportunities and limitations for high-density farming in Hong Kong. The projects experimented with alternative sites for urban farming (e.g., rooftops and green walls), and examined the socio-economic and environmental implications of farming in our future cities. FarmHD – Melbourne Symposium was held subsequently on 10 August 2017, at RMIT Design Hub, gathering international experts and designers to propose new ideas for the pressing issue of food security to Hong Kong.

**Context – RPg Symposium 2017**

30 April 2017

Organisers: PhD Students in Architecture

With the theme of “Context”, this symposium brought together research postgraduate students from a wide range of disciplines to present their current studies and share the “context” of their research. Researchers and practitioners from different countries and areas of knowledge such as urban design and planning, landscape architecture, architectural theory and history, and building technology were also participating in the event.

**Joint Workshop on Designing Public Space in Tai Po, Hong Kong**

22 - 26 May 2017

Organisers: School of Architecture, CUHK (Prof. GU Daqing) and HFT Stuttgart

This five-day event was the third collaborative workshop jointly organised by CUHK and Stuttgart University of Applied Science (HFT), with the major theme of designing public spaces in Hong Kong. Ten architecture and urban planning students from Stuttgart joined CUHK students at both BSSc and MArch levels to form mixed working teams to research the Tai Po Market and propose design interventions to improve the quality of public spaces in the area.

**UrbanactionsHK: International Symposium and Workshop**

22 - 27 May 2017

Organisers: School of Architecture, CUHK (Prof. Francesco ROSSINI)

The inadequate provision of open space in urban areas is one of the most recurrent challenges for the HKSAR Government, for high-quality public spaces can significantly increase a city’s attractiveness by encouraging business investment and improving living conditions. This symposium-workshop aimed to develop design proposals to regenerate underused public spaces in Hong Kong in response to local needs. Led by a group of international architects and urban designers from both academia and industry, four teams of 8-10 students developed urban design interventions to encourage the use of public space.
The workshop brought together researchers and journal editors from Australia, Hong Kong, mainland China and the UK to analyse and discuss new perspectives on architectural journals. It was open to teachers, researchers and students in relevant fields from CUHK, as well as members of the architectural profession.

Speakers: Paul HOGBEN (University of New South Wales) and Stanislaus FUNG (CUHK).

The workshop was hosted by Thomas CHUNG (CUHK), Prof. Stanislaus FUNG (CUHK) and the National Supervision Board of Architectural Education (China).

Launches in 2011, the annual NSBAE Workshop on Design Pedagogy is an intensive design exploration of space and tectonics targeting young architectural educators in China. It has trained around 300 educators from 50 architectural schools in China since its inception. In 2017, 68 educators and professionals from 25 universities and design firms were enrolled in the Workshop at CUHK.

The programme was conceived and taught by a group of experienced educators led by Prof. GU Daqing, whose architectural pedagogy has informed the Foundation Studio of our undergraduate programme at CUHK. Featuring a series of lectures on design theory and methodology, architectural education and pedagogy, as well as tours of modern and contemporary architecture in Hong Kong, the two-week Workshop ended with an exhibition of the resulting design works and a seminar that encouraged further exchange among the participants.

10th iFoU Conference – The Entrepreneurial City
14 - 16 December 2017
Organisers: International Forum on Urbanism (iFoU), MSc in Urban Design, School of Architecture (Prof. Hendrik TIEBEN) and Department of Geography and Resource Management (Prof. Mee Kam Ng), CUHK

ACU Summer School 2018
1 - 9 July 2018
Organisers: School of Architecture (Prof. Hendrik TIEBEN) and Department of Geography and Resource Management (Prof. Mee Kam Ng), CUHK

ACU Summer School 2018 brought together more than 40 students representing 16 nationalities from the Association of Commonwealth Universities (ACU) for a week of expert lectures, field trips, social events and group work on designing and creating sustainable communities.

The Entrepreneurial City.

“The Entrepreneurial City” was to achieve a fairer share of the prosperity brought by urbanization. For this to happen, speakers from 21 countries gathered in Hong Kong at the 10th iFoU Conference to investigate how urban design, planning and policies could create opportunities for innovative and socially minded entrepreneurs, motivating new initiatives to make our cities more inclusive and prosperous.

Established in 2004, the iFoU is a network of 23 distinguished universities, research institutes and knowledge centres across Asia, Europe and South America, with the task to strengthen the international collaboration in the field of Urbanism.
Location


Wong Foo Yuan Building (1994-2012)


University MTR Station

AIT Building, School of Architecture (2012-date)