

The Hong Kong Polytechnic University
香港理工大學

30th
CONGREGATION

Doctor of Philosophy Degree

第三十屆畢業典禮
哲學博士學位

PolyU Jockey Club Auditorium
香港理工大學賽馬會綜藝館

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MESSAGE FROM THE PRESIDENT

Embrace the future and make an impact on society

Dear Graduates

It is my great honour to extend my heartfelt congratulations on your remarkable accomplishment of graduating from The Hong Kong Polytechnic University (PolyU). This significant milestone is a testament to your hard work, dedication, and unwavering commitment to excellence throughout your studies.

As you step into the world as graduates of PolyU, I encourage you to live up to our University's motto, "To learn and to apply, for the benefit of mankind." As the next generation of socially responsible professionals and leaders, you have the power to make a lasting and meaningful impact on society. Use the knowledge and skills you have acquired at PolyU to drive innovation, foster positive change, and contribute to the betterment of our world.

Moreover, you should take immense pride in being graduates of a globally renowned institution. PolyU consistently ranks among the top 100 universities worldwide, as recognised by prestigious international ranking organisations such as QS, Times Higher Education, and U.S. News and World Report. This recognition reflects our University's educational and research excellence and the high calibre of graduates that PolyU is known for.

Indeed, you now join a distinguished alumni community of nearly half a million graduates who have gone on to make significant achievements in diverse fields across Hong Kong, the Nation, and the world. Stay connected with your alma mater and your fellow alumni, share your experiences, and become a source of inspiration for future generations of PolyU students who will follow in your footsteps.

Congratulations once again on your graduation, and I wish you the very best in your journey ahead!

Professor Jin-Guang Teng
President



校長勉語

迎接光輝未來 積極貢獻社會

各位畢業生：

我衷心祝賀各位香港理工大學（理大）博士學位應屆畢業同學。這個人生重要的里程碑是你們勵學奮進，努力不懈，追求卓越，成就非凡的明證。

你們是專業人才和明日領袖，具備社會責任感，有能力為社會帶來持久而深遠的影響。你們以理大畢業生的身分步入社會，當秉持大學校訓「開物成務 勵學利民」，善用在理大所獲得的知識和技能推動創新，造福世界。

你們畢業於享譽全球的大學，應感到自豪。在QS、泰晤士高等教育及美國新聞與世界報道等三大權威國際大學排名榜上，理大都位居全球百強學府之列。這顯示理大在教學和科研方面表現卓越，所培育的畢業生更是出類拔萃——這也是理大為人所稱譽之處。

理大擁有逾47萬名畢業生，他們在香港、國家和世界各地多個領域都不斷地取得重要成就，現在你們已成為這個卓爾不凡的校友社群的一員，務請大家與母校和校友保持緊密的聯繫，並積極跟後輩分享經驗，啟迪下一代的理大學生。

再次恭賀大家學有所成，祝願各位前程錦繡、宏圖大展！



校長

滕錦光教授



Motto **校訓**

**To learn and to apply,
for the benefit of mankind**
開物成務 勵學利民

Vision **願景**

Be a leading university that advances and transfers knowledge, and provides the best holistic education for the benefit of Hong Kong, the Nation and the world.

矢志成為一所在開拓及轉移知識、提供優質全人教育方面均領先的大學，
為香港、國家及世界作出貢獻。

Mission **使命**

To pursue impactful research that benefits the world.

致力富有影響、造福世界的研究。

To nurture critical thinkers, effective communicators, innovative problem solvers and socially responsible global citizens.

培育敏於思辨、善於溝通、富於創見、精於解難，且勇於承擔社會責任的世界公民。

To foster a University community in which all members can excel in their aspirations with a strong sense of belonging and pride.

營造讓員生志存高遠、心有歸屬、樂於以大學為榮的環境。



POLYU IN BRIEF

The Hong Kong Polytechnic University (PolyU) is committed to being an innovative world-class university that pursues excellence in education, research and knowledge transfer for the benefit of Hong Kong, the Nation, and the world.

PolyU was founded as a government trade school in 1937. The original trade school developed into a technical college in 1947 and then transformed into a polytechnic in 1972 before it became a self-accrediting university in 1994.

Leading in several subject areas locally and globally, PolyU is now a sizeable university with a total student enrolment of 29,611 and a staff population of 5,686. A total of 163 taught programmes leading to academic awards of different levels are currently offered. In addition, the University registers candidates for the research degrees of Doctor of Philosophy and Master of Philosophy. There are 31 academic/teaching units, including 28 units grouped under the six Faculties of Business, Construction & Environment, Engineering, Health & Social Sciences, Humanities, Science, and the three independent Schools of Design, Fashion & Textiles, and Hotel & Tourism Management, in addition to the Graduate School.

In addition to professional competence, PolyU strives to nurture socially responsible professionals and leaders with a strong sense of national identity and a global perspective. As a hallmark of PolyU's education, our credit-bearing Service-Learning programme connects professional education with societal needs, providing opportunities for students to apply their knowledge in improving the lives of those less fortunate. PolyU is devoted to nurturing the next generation with the positive values needed to serve society and to address socio-economic issues and challenges, which in turn will bring positive change to the world.

On the research front, PolyU has set up the PolyU Academy for Interdisciplinary Research as a central research platform to pursue world-leading interdisciplinary solutions to significant societal challenges. Furthermore, the University are establishing technology and innovation research institutes in various Mainland cities to help meet their industrial and societal needs.

In addition to pursuing trailblazing research in frontier areas, PolyU embraces a strong culture of knowledge transfer. By proactively translating scientific discoveries into innovations and viable solutions, the University takes the lead in making a positive societal impact. PolyU is also a pioneer in promoting entrepreneurship and is a breeding ground for aspiring entrepreneurs, having developed a robust ecosystem that helps our academic- and student-led startups to overcome business challenges and bring cutting-edge technologies and innovations to the market, for the benefit of mankind.

大學概況

香港理工大學（簡稱理大）致力於成為一所創新型世界級大學，於教學、研究與知識轉移各領域追求卓越，以造福香港、國家乃至全球社會。

理大的歷史可追溯至1937年創立的香港官立高級工業學院，1947年更名為香港工業專門學院，並於1972年轉型為香港理工學院。經過發展，於1994年11月25日，理大獲得大學及理工教育資助委員會授予自我評審資格，正式升格為大學，取名香港理工大學。

目前，理大有29,611名學生與5,686名教職員，提供163個授課式課程，多個學科在香港乃至全球處於領先地位。此外，理大亦招收攻讀哲學博士和哲學碩士學位的研究生。本校設有31個教學部門，包括隸屬於工商管理學院、建設及環境學院、工程學院、醫療及社會科學院、人文學院和理學院轄下的28個部門，以及設計學院、時裝及紡織學院、酒店及旅遊業管理學院。本校亦設有研究生院。

理大致力於培養學生成為具備專業才能、家國情懷、國際視野以及社會責任感的專業人士和領袖。理大教育的一大特色是將「服務學習」融入必修學分課程中，結合專業教育與社會需求，為學生提供機會以知識改善弱勢社群的生活。理大致力於培育具有正面價值觀的新一代，以服務社會，回應社會經濟的問題和挑戰，並積極推動世界的進步與變革。

在研究方面，理大成立了「香港理工大學高等研究院」，作為中心研究平台，專注於開發跨學科的世界領先解決方案，以應對重大社會挑戰。同時，理大在中國內地多個城市建立技術創新研究院，旨在滿足各城市的工業和社會發展需求。

除了在尖端領域進行創新性研究，理大亦積極推動知識的轉化，將科研成果轉變為創新且實用的解決方案，以惠及社會大眾。理大還鼓勵創新創業，建立了強大的創業生態系統，支持理大學者或學生創立的初創企業克服商業挑戰，並將先進技術和創新引進市場，造福社會。

ORDER OF PROCEEDINGS

典禮程序

- The Congregation should be seated by 2:45 p.m.
觀禮來賓請於下午二時四十五分前就座
 - The Procession will enter the Auditorium at 3:00 p.m.
典禮行列於下午三時正進入會場
 - The Congregation will stand while the Procession is entering and leaving the Auditorium.
觀禮來賓請於典禮行列進入及離開會場時站立
1. National Anthem starts.
奏國歌
 2. The Council Chairman, Dr Lam Tai-fai, GBS, JP, will declare the Congregation open.
校董會主席林大輝博士, GBS, JP 宣佈典禮開始
 3. The Deputy President and Provost, Prof. Wing-tak Wong, will introduce the Guest of Honour, Ir Prof. Chan Ching-chuen, SBS, for the Congregation speech.
常務及學務副校長黃永德教授介紹畢業典禮演講嘉賓, 陳清泉教授、工程師, SBS
 4. Ir Prof. Chan Ching-chuen, SBS, will deliver the Congregation speech.
陳清泉教授、工程師, SBS 致辭
 5. The Dean of Graduate School, Prof. Jiannong Cao, will present graduates of the Degree of Doctor of Philosophy.
研究生院院長曹建農教授宣讀哲學博士學位畢業生名單
 6. The President, Prof. Jin-Guang Teng, JP, will present the Award of Best Research Postgraduate Students of the Year 2023.
校長滕錦光教授, JP 頒發2023年度傑出研究生獎
 7. The graduate representative, Dr Wong Chun Ho Eddy, will deliver the valedictory speech.
畢業生代表黃震浩博士致辭
 8. The President, Prof. Jin-Guang Teng, JP, will address the Congregation.
校長滕錦光教授, JP 致辭
 9. The Council Chairman will declare the Congregation closed.
校董會主席宣佈典禮結束

GRADUATE LIST

畢業生名錄

DOCTOR OF PHILOSOPHY

哲學博士

Graduates (Departments*)		Titles of PhD Theses	Chief Supervisors
AKBAR Muhammad Ayaz (ME)		Design and Optimization of Single-Particle Impact Damper	Dr WONG, Wai On
AKINWANDE Timothy Olugbenga (BRE)		An Integrated Framework for Effective Affordable Housing Provision in Nigeria	Prof. HUI, Chi-Man Eddie
BAI Genming (AMA)	白根銘	Stable and Convergent Numerical Methods for Geometric and Physical PDEs	Prof. LI, Buyang
BELLO Idris Temitope (BRE)		The Power of Perovskites: Advancing Ceramic Electrochemical Cell Technology with Novel Cathode Materials for Clean Energy	Prof. NI, Meng
CAO Yonggui (EEE)	曹永貴	Single-Pixel Optical Encoding and Transmission with Random Numbers	Dr CHEN, Wen
CHEN Changsheng (AP)	陳昌盛	Quantitative Electron Diffraction and Spectroscopy and Their Application on Polymers and 2D Materials	Dr ZHU, Ye
CHEN Fan (SFT)	陳繁	Adhesive, Permeable, and Wearable Electronic Skin	Prof. ZHENG, Zijian
CHEN Fuying (LMS)	陳芙蓉	Studies on Port Competition, Cooperation and Integration	Prof. LUO, Meifeng
CHEN Hongjie (EEE)	陳鴻杰	Highly Coherent Broadband Mode-Locked Laser Source and Its Applications	Prof. LU, Chao
CHEN Jiaxin (CBS)	陳佳鑫	Exploring the Textual Characteristics of Constrained English Varieties: A Comparative Study of Translated English, EFL, and Native English Using a Multidimensional Approach	Prof. LI, Dechao
CHEN Lan (BEEE)	陳嵐	A Study of Pedestrian-Level Wind and Outdoor Thermal Comfort Under Urban Elevated Designs	Ir Prof. MAK, Cheuk Ming
CHEN Long (LSGI)	陳龍	Real-Time Photogrammetry Based on Parallel Architecture for 3D Applications	Prof. WU, Bo
CHEN Qianyi (COMP)	陳潛溢	Physics-Informed Machine Learning for the Monitoring of Engineering Structures	Prof. CAO, Jiannong
CHEN Shanlin (ME)	陳山林	Integrated Remote Sensing and Machine Learning Techniques for Solar Forecasting and Resource Assessment	Dr LI, Mengying
CHEN Shanxiang (LSGI)	陳善雄	Hierarchical Feature Analysis for Automatic Building Extraction and Change Detection	Prof. SHI, Wenzhong John
CHEN Siyi (CEE)	陳思怡	SHM Data Processing Using Low-Rank Techniques: From Time-Series Vibration Data to Vision-Based Image Data	Ir Prof. NI, Yi-Qing
CHEN Siying (CBS)		Phonological Processing and Encoding of Tones in Mandarin Chinese	Dr YAO, Yao
CHEN Xi (HTI)	陳曦	The Beneficial Effects of Inhibition of Hepatic APPL2 on Metabolic Homeostasis	Dr CHENG, King Yip Kenneth

Graduates (Departments*)		Titles of PhD Theses	Chief Supervisors
CHEN Xiaoyu (CEE)	陈小钰	Investigation of Sinkhole Formation Mechanisms by Single-Layer Soil-Water Coupled Smoothed Particle Hydrodynamics Method	Dr LEUNG, Yat Fai Andy
CHEN Yang (CEE)	陈杨	Assessment of the Environmental, Ecological, and Social Impacts of River Restoration Projects in Hong Kong	Prof. WANG, Yuhong
CHEN Zhuojia (CBS)	陈卓佳	Subtitling as Multimodal Representation: A Corpus-Based Experimental Approach to Text-Image Relations	Dr WU, Zhiwei
CHENG Haiming (COMP)	程海鸣	Push the Limit of Acoustic Sensing Techniques for Finer HCI	Dr LOU, Wei
CHEUNG Tsun Hin (EEE)	張浚軒	Deep Learning for Rumour Detection and Claim Veracity Assessment on Social Media	Prof. LAM, Kin-Man Kenneth
CHEUNG Yuen Kiu (APSS)	張苑蕎	Work-Related Stress Among Hong Kong Police Officers in the COVID-19 Pandemic: A Mixed-Method Study	Dr LI, Chi Mei Jessica
COFFIE Joseph Adika (ENGL)		Representation of Sexuality in Television Advertising: A Systemic Functional Multimodal Discourse Analysis Of Ghanaian Alcohol Commercials	Dr FENG, Dezheng William
DONG Yun (SHTM)	董蕴	Exploring the Antecedents and Consequences of Customer-Oriented Perspective Taking	Dr HON, Hiu Ying Alice
DONG Yuqing (ISE)	栋宇庆	Development of Transparent and Flexible Actuators with Ionic Liquid-Based Electroactive Polymers	Prof. TANG, Chak-yin
FAN Haiyan (ME)	范海燕	Non-Hermitian Topological Phases in Elastic and Acoustic Lattices	Prof. SU, Zhongqing
FENG Zhen (ME)	冯振	A Study on Semantic Scene Understanding with Multi-Modal Fusion for Autonomous Driving	Dr SUN, Yuxiang
FU Jiehao (EEE)	付杰浩	Engineering Photoactive Layer Towards High-Performance Organic Solar Cells	Prof. LI, Gang
GAO Ming (ISE)	高鸣	Surface-Initiated Atom Transfer Radical Polymerization for Polymer Composites Design and Synthesis of Specific Functional Properties	Prof. CHEUNG, Chi Fai Benny
GEREMEW Yechale Mehiret (SHTM)		Redefining Hospitality Leadership with Digital Disruption Events: Digital Transformative Leadership for Building Resilient and Digital Organizational Citizenry	Dr HUANG, Wei-Jue Sabrina
GONG Borui (COMP)	宫博睿	Advancements in Public-Key Cryptography: Crafting Novel Constructions to Address Emerging Demands	Prof. AU, Man Ho Allen
GONG Quan (BEEE)	龚权	Development of Scalable Radiative Cooling Coatings and Modules with Self-Adaptive Properties for Buildings	Ir Prof. LU, Lin Vivien
GONG Yue (BRE)	龚越	Automated Construction Worker Productivity Assessment Using Sensors Fusion Approaches	Ir Dr SEO, JoonOh
GU Yutian (BME)	顾羽恬	ROS Scavenging Based Multifunctional Nanoparticles for Neurological Disorders Therapy	Prof. YANG, Mo
GUO Shi (COMP)	果实	Toward Effective Image Restoration from Raw Domain	Prof. ZHANG, Lei John
GUO Tao (COMP)	郭韬	Towards Efficient and Personalized Collaborative Edge Learning on Heterogeneous Environment	Prof. GUO, Song
GUO Zengjia (BRE)	郭曾嘉	The Numerical Investigation and Optimization of Battery Thermal Management System	Prof. NI, Meng
HAN Shuwen (CEE)	韩舒文	Investigation of Emission Characteristics and Development of Control Techniques Towards Cooking Oil Fumes	Dr LEU, Shao-Yuan
HAO Zhihao (CEE)	郝志豪	Durability of FRP Reinforced Seawater Seasand Concrete Beams and FRP-Strengthened Reinforced Concrete Beams	Prof. DAI, Jian-Guo

Graduates (Departments*)		Titles of PhD Theses	Chief Supervisors
HE Chang (CEE)	贺昶	Risk Assessment of Dredging Processes in Pearl River Estuary - Hong Kong Waters	Prof. YIN, Zhen-Yu
HE Chenhang (COMP)	何晨杭	Efficient Feature Learning for Point Cloud-Based 3D Object Detection	Prof. ZHANG, Lei John
HE Jiaqi (EEE)	何佳琦	Improved Performance of GaN Metal-Insulator-Semiconductor High-Electron-Mobility Transistors Towards Power Applications	Prof. LI, Gang
HU Lingquan (SFT)	胡凌泉	A Circular Economy Approach - Post-Consumer Textile Waste Recycling for 3D Printing Flexible Textiles	Prof. JIANG, Shou-xiang Kinor
HU Mingyu (BME)	胡明宇	Gait Regulation in Individuals with Unilateral Transfemoral Amputation: From Neural Dynamics to Movement Coordination	Dr KOBAYASHI, Toshiki
HU Xinlin (AMA)	胡昕霖	Efficient First-Order Methods for Structured Sparse Optimization and Their Financial Applications	Prof. YANG, Xiaoqi
HU Zhejing (COMP)	胡喆靖	Computational Creativity in Music: Music Generation and Style Transfer	Dr LIU, Yan Fiona
HUANG Jiahao (CEE)	黄家豪	High-Seismic-Performance Framed Structures Enabled by Novel Shape Memory Alloy Elements	Prof. ZHU, Songye
HUANG Junxian (SFT)	黄俊贤	Study on Surface Microstructure Engineering of One-Dimensional Advanced Materials with Customizable Functionalities	Prof. XU, Bingang
HUANG Yunping (CEE)	黄云萍	Dynamic Traffic Assignment Models for Urban Network: A Macroscopic Fundamental Diagram Approach	Dr HSU, Shu-Chien Mark
HUANG Zhenjia (ISE)	黄振家	Development of Light-Responsive Actuators Based on Conjugated Polymers/Liquid Crystal Elastomers Through Photopolymerization	Dr TSUI, Chi Pong Gary
JAVID Zahid (EEE)		Load Flow Solvers for DC and Hybrid AC/DC Grids	Dr KARAAGAC, Ulas
JIANG Qinghong (ME)	江庆红	Material Removal Mechanism and Surface Integrity of Wrought and SLM-ed Ti6Al4V Alloys in Ultra-High-Speed Machining	Prof. FU, Mingwang
JIANG Xiaoping (EEE)	蒋小平	Novel Fabry-Pérot Resonators for Sensing Applications	Dr CHEN, Wen
JIN Ziliang (LMS)	金子亮	Data-Driven Smart City Operations: Bridging Shared Mobility and Electrical Power Grid	Dr PAN, Kai
JOO Ian (CBS)	朱易安	Phonological Areas in Eurasia	Dr HSU, Yu-Yin
KE Xiaoquan (EEE)	柯晓权	Automatic Selection of Spoken Language Biomarkers for Dementia Detection	Prof. MAK, Man-Wai
KIM Daekyu (ABCT)		A Study on Electronics Structure Modulation of 3D Transition Metal-Based Heterostructures for Efficient Electrochemical Water Oxidation	Dr LEE, Yoon Suk Lawrence
KWAN Mei Ying (SFT)	關美瑋	Ergonomic Design of Textile Orthoses for Patients with Hallux Valgus	Prof. YICK, Kit Lun
KWOK Yin Tung Coco (LSGI)	郭彥彤	An Integrated Knowledge-Based Remote Sensing Technique for Coastal Water Quality Monitoring	Sr Prof. WONG, Man Sing Charles
LEE Ka Po (SFT)	李嘉寶	Development of Pressure Monitoring Undergarment for Scoliotic Brace Treatment	Prof. YIP, Yiu Wan Joanne
LEI Mang Leng (ABCT)	李孟靈	Identification of Wild-Type Kirsten Rat Sarcoma (KRAS) and Its Signalling Pathway in Immune Evasion in Hepatocellular Carcinoma	Prof. LEE, Kin-wah Terence
LI Bei (CBS)	李北	Cross-Linguistic Processing of Prosodic Focus in L1 Cantonese and L3 Mandarin by Trilingual Adults and Children	Dr CHEN, Si Sarah

Graduates (Departments*)		Titles of PhD Theses	Chief Supervisors
LI Danning (CEE)	厉淡宁	Multiscale Investigation on the Aging and Recycling Mechanisms of Asphalt Rubber Pavement	Prof. LENG, Zhen
LI Shuai (COMP)	栗帅	Exploring Efficient Feature Extractor and Label Assigner for Object Detection	Prof. ZHANG, Lei John
LI Xinwei (CEE)	李欣蔚	Investigation of Nano-Catalysts for Air Pollution Control in Urban Microenvironments: From Design to Application	Dr LEU, Shao-Yuan
LI Yongqi (COMP)	李永祺	Towards Interactive Information Seeking: Conversational Question Answering	Prof. LI, Wenjie Maggie
LIANG Zhixuan (COMP)	梁志煊	Distributed and Hierarchical Deep Reinforcement Learning for Multi-Robot Autonomous Cooperation	Prof. CAO, Jiannong
LIN Shaoqun (CEE)	林少群	Refined Monitoring Using the OFDR-Based Distributed Fibre Optic Sensor: From Laboratory Tests to Site Monitoring	Ir Prof. YIN, Jian-Hua
LIU Jing (SFT)	刘静	Exploration on the Application of Textile-Based 3D Printing for Fashion Design	Prof. JIANG, Shou-xiang Kinor
LIU Liu (FSN)	刘柳	Development of High-Performance Nano-Emulsions of Phase Change Materials for Thermal Energy Storage	Prof. WU, Jian-yong
LIU Qing (ABCT)	刘卿	The Role of Cholesterol Esterification in Adipocyte Expandability and Its Associated Metabolic Disorders	Dr ZHU, Yuyan
LIU Shuaiqi (COMP)	刘帅岐	Neural Abstractive Summarization for Long Documents	Prof. CAO, Jiannong
LIU Tiancheng (AP)	柳天成	Synthesis, Modification, and Degradation Mechanism of Single-Crystal Cobalt-Free Ni-Rich Cathode Materials	Prof. HUANG, Haitao
LIU Ting Yao (SHTM)		The Impact of Diaspora Tourism on Return Migration Intentions Across Cultural Distance and Migration Generations	Dr LIN, Ming Chu Pearl
LIU Xian (HTI)	刘娴	Serine-347 Phosphorylated Musashi-1 Stimulates Cell Cycle Progression, Cytoskeletal Remodeling, and Tumorigenicity of Glioblastoma Multiforme	Dr LIN, Liang-ting
LIU Yufeng (CBS)	刘雨凤	(RE)Framing to (RE)Evaluate: Metaphors in Cross-National COVID-19 News Translation	Prof. LI, Dechao
LU Wenze (CBS)	陆文泽	Examining the Effects of Empathy and Dialogic Risk Communication in Physicians' Text-Based Messages on Patient Satisfaction and Compliance in Chinese Online Medical Consultations	Dr NGAI, Sing Bik Cindy
LUO Jiemei (BRE)		Image Over Substance: The Social Cohesion in Culture-Led Urban Regeneration of Shanghai	Dr YUNG, Hiu Kwan Esther
LYU Jiahua (BEEE)	吕家华	Numerical Impedance Extraction of Litz Wire Using a Multi-Level PEEC Method	Prof. DU, Yaping Patrick
MA Jie (BRE)	马洁	Physical and Mental Fatigue Assessment of Construction Workers Using Sweat-Based Biosensors	Prof. LI, Heng
MA Wanyu (ME)	马婉玉	Reactive Task Planning for Robotic Sequential Manipulation of Rigid/Soft Objects	Dr NAVARRO-ALARCON, David
MA Yeping (ABCT)	马叶萍	Studying Bacterial Population Dynamics During Biofilm Dispersal and Efficacy of Juglone as Antibiofilm Agent in a Microfluidics Device	Dr CHUA, Song-lin
MALIK Numan (CEE)		Performance of Fiber Reinforced Polymer Composite Concrete Piles in Marine Soils Ended in Rock Sockets Under Axial Cyclic and Static Loadings	Ir Prof. YIN, Jian-Hua
MANSOORI Shama (HTI)		Deletion of Branched-Chain Amino Acid Catabolic Gene PPM1K Induces Adipose Tissue Dysfunction in Mouse Model	Dr CHENG, King Yip Kenneth

Graduates (Departments*)		Titles of PhD Theses	Chief Supervisors
MAO Jianfeng (AP)	茅建丰	Strain-Modulated Photoelectric and Ferroelectric Properties of 2D Materials via Patterned Substrates	Prof. HAO, Jianhua
MARUF Md Abdullah Al (HTI)		Association Study and Functional Characterization of Germline Polymorphisms in Myeloproliferative Neoplasms	Prof. YIP, Shea-ping
MEHMOOD Aamir (ISE)		Achieving Sustainable Development Goals in Pakistan: Focusing on Energy Sustainability in Multi-Sectoral Approach	Dr REN, Jingzheng
MEHMOOD Imran (BRE)		Automated and Non-Invasive Mental Fatigue Assessment of Construction Equipment Operators	Prof. LI, Heng
MENG Lei (EEE)	孟蕾	EMT-Type Impedance Scanning Methods for Screening Control Interactions Between Inverter-Based Resource and Transmission Grid	Dr KARAAGAC, Ulas
MIHIRETU Haimanot Asmamaw (SHTM)		Green Hotel for Guest Well-Being: A Quality Dimension Prospectus	Dr CHAN, Siu Wa Eric
NAN Zhuojun (BEEE)	南卓君	Towards Safer Buildings: An Integrated Approach for Structural Fire Analysis, Design, and Collapse Prediction	Prof. USMANI, Asif Sohail
NAVARRETE RIGO Andrea (SD)		Autonomous Design as a Decolonial Tool	Prof. HASDELL, Peter
NISHA Farisha Nazmeen (SHTM)		Tourism, Gender and Religion: Female Muslims' Perceptions of International Tourism - An Intersectional Perspective	Dr CHEUNG, Yuk Yim Catherine
NIU Songyan (EEE)	牛松岩	Analysis and Assessment of Security Situation Awareness of Wireless Electric Vehicle Charging Systems Under Non-Ideal Conditions	Prof. NIU, Shuang-xia
NYAGA Olive Nelly Muthoni (SHTM)		Revenue Management Strategy Implementation: Role of Critical Factors on Revenue Management Strategy Effectiveness	Dr MUN, Sung Gyun
OSEI-POKU Louis (LSGI)		Investigating the Ionosphere Response to Thunderstorm/Lightning in Hong Kong Using GNSS and Local Lightning Data	Prof. CHEN, Wu
OUYANG Huixi (RS)	歐陽卉熙	Using High-Resolution Peripheral Quantitative Computed Tomography to Study the Long Bone Structural Changes After Stroke: A Longitudinal Study	Prof. PANG, Yiu Chung Marco
PAN Qingrui (COMP)	潘卿锐	Re-Fingerprinting RFIDs with Augmented Unclonability	Dr YANG, Lei Ray
PAN Yu (CEE)	潘雨	Experimental and Numerical Study of Hybrid Prefabricated Horizontal Drains and Prefabricated Vertical Drains Assisted with Vacuum Preloading Method for Treatment of Clayey Slurry	Prof. YIN, Zhen-Yu
PANG Kaicheng (SFT)	龐楷成	Personal Stylist: An Intelligent Evaluation Model for Personalized Styling Advice	Prof. WONG, Wai-keung Calvin
QIU Jin (BEEE)	仇锦	Development of High-Efficiency 3D Models for Simulation of Building Structures in Fires	Dr JIANG, Liming
QU Congyi (ENGL)	瞿聪一	Gesture and the Acquisition of L2 English Tense and Aspect	Prof. HU, Guangwei
QU Xuanyu (LSGI)	曲轩宇	Structural Health Monitoring Based on Integration of GNSS and In-Situ Sensors	Prof. DING, Xiao-li
RAO Jingdong (BME)	饶竞东	Biomedical Applications of Nitric Oxide Production System in the Promotion of Cardiovascular Homeostasis and Bone Regeneration	Dr ZHAO, Xin
SHAO Huiling (HTI)	邵汇灵	A Clinical Decision Support Tool to Identify Eligible Stroke Patients for Alteplase	Dr CHAN, Wing Chi Lawrence
SHEN Xin (SD)	沈欣	Designing Text-Based Chatbots For Eating Disorders: From An Identity-Based Perspective	Dr CHOW, Ka Nin Kenny

Graduates (Departments*)		Titles of PhD Theses	Chief Supervisors
SHEN Zhicheng (BEEE)	沈志成	Research and Development on a Novel Hydropower System with Integrated Turbine Generator for Efficient Energy Recovery from Water Supply Pipeline	Ir Prof. YANG, Hongxing
SHI Fangyi (AP)	师芳仪	Studying Liquid Sulfur in Lithium-Sulfur Batteries	Prof. LAU, Shu Ping Daniel
SHI Siping (COMP)	史思萍	Privacy-Preserving and Robust Federated Learning on Noisy Environment	Prof. WANG, Dan
SU Min (BME)	苏敏	Novel Intravascular Ultrasound Transducers	Prof. SUN, Lei
SU Xiaochun (ABCT)	苏晓纯	Development of Orthotopic Glioblastoma (GBM) Patient-Derived Xenograft (PDX) Models for Efficacy Evaluation of Sorafenib Combined with a Synthetic Flavonoid Dimer	Prof. CHOW, Ming-cheung Larry
TAM Suet Ying (ABCT)	谈雪盈	The Utilization of Amino Acid-Depleting Enzymes	Prof. LEUNG, Yun-chung Thomas
TAN Xiaoyue (LSGI)	谭晓悦	Generation of High-Quality Daily Nighttime Light Time Series Through Uncertainty Modelling and Cloud Removal	Dr ZHU, Xiaolin
TANG Li (EEE)	唐丽	Secure Authentication and Aggregation in Large-Scale Data-Driven Systems	Prof. HU, Haibo
TANSAR Husnain (CEE)		Sustainable Stormwater Control and Management with Resilience-Based Optimization Framework of Green-Grey Infrastructures Under Climate Change Uncertainties	Dr DUAN, Huan-Feng
TENG Jingcheng (CEE)	滕竞成	Behaviour and Modelling of Sand-Filled GFRP Pile-Wall System in Reclamation Engineering	Prof. DAI, Jian-Guo
TSANG Pak Lik (APSS)	曾栢力	Prospective Memory Training in Healthy Older Adults: A Systematic Review and an Experiment of Mindfulness Induction to Improve Prospective Memory	Dr LU, Huijing
TSOI Chi Chung (AP)	蔡智聰	Microfluidic Droplet Arrays for High-Throughput Screening of Microalgae	Prof. ZHANG, Xuming
WAN Zhishang (CEE)	万直上	Advancing Nanocomposite Membranes for Water Treatment: Mechanistic Understanding of Nanofiller Incorporation and Development of Aerosol-Assisted Nanoengineering Approaches	Dr JIANG, Yi
WANG Chenhao (AP)	王晨昊	Observation of Hot-Carrier Photocurrent in Ruddlesden-Popper (RP) Perovskite/MoS ₂ Heterostructure	Dr LI, Mingjie
WANG Jingxian (LSGI)	王敬贤	3D Vehicle Positioning with Smartphone-Based Hybrid Techniques in Urban Areas	Prof. CHEN, Wu
WANG Meilian (LSGI)	王美莲	Machine Learning Based Methods for Tree Species Classification from Handheld LiDAR Data	Sr Prof. WONG, Man Sing Charles
WANG Ruobing (ISE)	王若冰	Prototype Design and Time-Optimal Control of a Lower-Mobility Cable-Driven Parallel Robot	Prof. LI, Yangmin
WANG Ruoxin (ISE)	王若鑫	Deep Learning Based Surface Characterization for Additive Manufacturing	Prof. CHEUNG, Chi Fai Benny
WANG Shaoyang (BEEE)	王绍阳	Development of a Multi-Range Lightning Current Measurement System with a Wide Dynamic Range from Milli-amperes to Hundreds of Kilo-amperes	Prof. CHEN, Mingli
WANG Yanan (CEE)	王亚男	Soil Nitrous Acid Emissions: Mechanisms, Impact Factors, and Their Effects on Air Quality	Prof. WANG, Tao
WANG Ye (ISE)	王擘	Adoption of AI in Functional Safety Systems – Smart Elevator Condition Monitoring by the Deep Learning Based Data-Driven Modelling Approach	Dr CHUNG, Sai Ho Nick

Graduates (Departments*)		Titles of PhD Theses	Chief Supervisors
WANG Yilin (ISE)	王奕林	Superior Mechanical Properties and Multiple Strengthening Mechanisms of Additively Manufactured Face-Centered Cubic High Entropy Alloys	Ir Prof. CHAN, Kang Cheung Keith
WANG Yuhao (EEE)	王昱昊	Integrated Smart Pavement Systems for Environment Monitoring, Localization, and Traffic Data Collection	Dr HO, Wang-Hei Ivan
WANG Zilong (BEEE)	王自龙	Intelligent Fire Identification and Quantification Driven by Computer Vision	Dr HUANG, Xinyan
WEI Lai (SD)	魏莱	Animated Gestures: Pedagogical Agents' Meaningful Instructional Gesture Design for Effective Educational Information Presentation	Dr CHOW, Ka Nin Kenny
WEI Zhenyao (SFT)	魏振耀	Fabrication of Flexible Polymer-Based High-Voltage Solid-State Lithium Metal Batteries	Prof. ZHENG, Zijian
WEN Zhiyuan (COMP)	温志远	Comprehending and Reflecting Personality in Dialog Systems	Prof. CAO, Jiannong
WONG Chun Ho (CBS)	黄震浩	Pitch Variation in Cantonese-Speaking Children and Adults with Apraxia of Speech	Dr WONG, Min Ney
WONG Ho Chun (ABCT)	黄浩俊	Non-Conjugated Photoluminescent Polymer Particles: Synthesis, Characterization and Potential Application	Prof. LI, Pei Pauline
WONG Ngai Kiu (RS)	黄藝翹	The Impact of an International Classification of Functioning, Disability and Health (ICF)-Based Post-Stroke Rehabilitation Program in Promoting Patients' Community Reintegration	Prof. FU, Siu Ngor Amy
WU Haitao (BRE)	吴海涛	Construction Quality Improvement by Adopting Worker-Robot Collaboration Teams and Decentralized Blockchains	Prof. LI, Heng
WU Manhui (ABCT)	吴漫蕙	Food Emulsifiers Increase Toxicity of Food Contaminants	Dr KWOK, Wing-hin Kevin
WU Tong (ABCT)	吴桐	First-Principles Studies of Transition Metals Based Nanomaterials for Electrocatalysis of Sustainable Energy-Related Electrochemical Reactions	Dr HUANG, Bolong
WU Wei (MM)	吴薇	Navigating the Undulating Path: Unraveling the Impact of Planned and Unplanned Events During the Socialization Process	Prof. LIU, Wu
XIA Liqiao (ISE)	夏历翹	A Systematic Graph-Based Methodology for Cognitive Predictive Maintenance of Complex Engineering Equipment	Ir Dr ZHENG, Pai
XIE Chuyi (ME)	谢楚依	Enabling High-Performance Lithium Metal Batteries Through Nanostructure Engineering	Dr LIU, Qiang John
XIE Fengjia (AP)	谢逢佳	Artificial Photosynthesis for Glucose Precursor Production	Prof. ZHANG, Xuming
XIE Wen (MM)	谢雯	Two Studies of Human-AI Interactions	Prof. XU, Xin
XIE Yanlin (ISE)	谢炎林	Investigation of Compact Positioning Systems and a Linear Actuator Based on Compliant Mechanisms	Prof. LI, Yangmin
XU Shuai (LSGI)	徐帅	Employing Optical and SAR Imagery for Enhanced Mapping of Vegetation and Crops in Challenging Environments	Dr ZHU, Xiaolin
XUE Dabin (LSGI)	薛大彬	Evaluating Space Weather Effects of Communication Blackouts, GNSS-Based Navigation and Surveillance Failure, and Cosmic Radiation on Air Traffic Management	Prof. LIU, Zhizhao George
YAN Zijun (AP)	严紫君	Topological Hall Effect in Bismuth/Chromium Telluride Heterostructures and Chromium Telluride Thin Films with Self-Intercalation	Prof. LAU, Shu Ping Daniel
YANG Ning (CEE)	杨凝	Development of Multiple Functional Geopolymer Coating for Performance Upgrading of Civil Engineering Structure	Prof. DAI, Jian-Guo

Graduates (Departments*)		Titles of PhD Theses	Chief Supervisors
YANG Yang (ABCT)	杨阳	Target Profiling of Electrophilic Compounds by Using Chemical Proteomics Strategies	Dr ZHAO, Qian
YAO Linyi (CEE)	姚琳怡	An Intelligent Pavement Management Framework for Heterogeneous and Interdependent Road Networks with Enhanced Sustainability	Prof. LENG, Zhen
YAO Yao (BEEE)	姚尧	Numerical and Experimental Study of Novel Inline Bidirectional Micro Hydro Turbine for Hydropower Harvesting from Water Supply Pipelines	Ir Prof. YANG, Hongxing
YE Chongyang (SFT)	叶重阳	Design Optimization of Compression Stockings Based on Fluid-Structure Interaction Modeling	Dr LIU, Rong
YE Xin (CEE)	叶昕	Deep Learning-Based Investigation of an Innovative Rail Damper Using Particle Damping Technology for Noise and Vibration Control	Ir Prof. NI, Yi-Qing
YE Zhongnan (CEE)	叶中楠	Dynamic Rescue in Flames: Real-Time Structural Fire Response Prediction and Adaptive Indoor Rescue Path Planning	Dr HSU, Shu-Chien Mark
YEH Yu-wen (HTI)	葉昱玟	Mouse Hygiene Status—A Tale of Two Environments for Mast Cells	Prof. ZOU, Xiang
YU Wancheng (SFT)	虞曉成	Energy-Dense Flexible Li-Ion Batteries Based on Ultralight Metal-Coated Fabrics	Prof. ZHENG, Zijian
YUAN Qi (CEE)	袁琪	Transformation of Aromatic Hydrocarbons and Formation of Oxygenated Volatile Organic Compounds at a Regional Background Site in the PRD Region: Insights from Field Study to Chamber Experiments	Prof. LEE, Shun-cheng
YUAN Shuqing (ISE)	袁书情	Microstructural Evolution and Properties of Surface Treatment-Induced Heterogeneous Nanostructured CrCoNi-Based Medium-Entropy Alloys	Dr YANG, Xusheng
ZEESHAN Muhammad (SFT)		Study Of Three-Dimensional Woven Fabrics With In-Plane Negative Poisson's Ratio	Prof. HU, Hong
ZENG Weixin (CBS)	曾维欣	Reconstructing News Values of the Frenemy Through Journalistic Translation on WeChat	Prof. LI, Dechao
ZHANG Ge (BEEE)	張舸	Study of the Effect of Observation Site and Propagation Path on Lightning-Produced Electromagnetic Pulse (LEMP) Based on Rocket-Triggered Lightning Data and FDTD Code	Prof. CHEN, Mingli
ZHANG Haode (COMP)	张昊德	Few-Shot Intent Detection with Pre-Trained Language Models: Transferability, Expressiveness and Efficiency	Dr WU, Xiaoming
ZHANG Pengxiang (SFT)	张澎祥	Thermo-E-Skin: Functional Bionic Engineering to Achieve Thermoregulation and Thermosensation	Prof. ZHENG, Zijian
ZHANG Tianhang (BEEE)	张天航	Smart Firefighting Framework and Building Fire Forecast Driven by Artificial Intelligence	Dr HUANG, Xinyan
ZHANG Xiaoning (BEEE)	张小宁	Smart Tunnel Fire Forecast and Safety Management Driven by Artificial Intelligence of Things	Dr HUANG, Xinyan
ZHANG Xuelin (SN)	张雪林	Effects of a Dyad Acceptance and Commitment Therapy-Based Intervention on Health-Related Quality of Life in Chronic Heart Failure Patients and Their Family Caregivers: A Randomized Controlled Trial	Dr MAK, Yim Wah
ZHANG Zixin (BEEE)	张子欣	Development and Application of Isogeometric Analysis and Topology Optimization for Future Structural Design	Prof. USMANI, Asif Sohail
ZHAO Menghan (CEE)	赵梦晗	Behavior of Hybrid FRP-UHSC-Steel Double-Skin Tubular Columns and Beams	Dr DONG, You

Graduates (Departments*)		Titles of PhD Theses	Chief Supervisors
ZHAO Wenxuan (BEEE)	赵文萱	Planning and Design Optimization of Air-Conditioning Systems for High-Tech Cleanrooms of Enhanced Energy Efficiency Under Full-Range Climate Conditions	Ir Prof. WANG, Shengwei
ZHAO Zeyu (AP)	赵泽宇	Flexible Organic Electrochemical Transistors for Bioelectronics	Prof. YAN, Feng
ZHAO Zhonghao (ISE)	赵钟浩	Intelligent Planning and Operation for Electric Vehicle Charging Networks	Dr LEE, Ka Man Carman
ZHONG Chong (AMA)	钟充	Nonparametric Bayesian Statistics Harnessing the Forces of Data in Change-Point Detection and Survival Analysis	Dr LIU, Chunling Catherine
ZHONG Leni (SFT)	钟乐霓	Liquid Metal-Based Devices for Energy Harvesting and Health Monitoring Through Human Sweat	Prof. ZHENG, Zijian
ZHOU Hanmo (AP)	周悍墨	Study of Composite Structural Supercapacitors Based on Modified Carbon Fiber Electrodes	Prof. HUANG, Haitao
ZHOU Qi (APSS)	周琪	The Transformation of Farmer Training in China (1949-2022): State, Community, Technology and the "New Farmers"	Dr CHAN, Wai Ling Jenny
ZHOU Qihua (COMP)	周祺华	Towards Efficient Tiny Machine Learning Systems for Ubiquitous Edge Intelligence	Prof. GUO, Song
ZHOU Rui (AP)	周蕊	Towards Rechargeable Calcium-Ion Batteries: Insertion Chemistry and Electrode Stability	Dr ZHANG, Biao
ZHOU Shuang (COMP)	周爽	Graph Anomaly Detection with Diverse Supervision Signals	Dr CHUNG, Fu Lai Korris
ZHOU Xin (BRE)	周鑫	Modelling Productivity Performance Risks in Modular Integrated Construction in Hong Kong	Prof. SHEN, Qiping Geoffrey
ZHOU Yu (COMP)	周瑜	Fair Share Allocation of Indivisible Chores	Dr LI, Bo
ZHU Jixiang (CEE)	朱继翔	Development of FRP-Reinforced UHS-ECC Composite System for Performance Enhancement of RC Beams	Prof. DAI, Jian-Guo
ZHUANG Qiuna (SFT)	庄秋娜	Permeable and Stretchable Bioelectronic Devices and Systems Using Liquid Metal	Prof. ZHENG, Zijian
ZOU Fuliao (CEE)	邹富燎	Quantitative Assessment of the Leaching of Heavy Metals and PAHs from Asphalt Pavements and Its Impact	Prof. LENG, Zhen
ZOU Jing (SN)	邹静	Unsupervised Learning for Deformable Medical Image Registration	Prof. QIN, Jing Harry

*For the full names of the Schools/Departments of the PhD graduates, please refer to page 17.

Abbreviations for Schools and Departments of the PhD Graduates

哲學博士研究生所屬學院及學系英文名稱縮寫

ABCT	Department of Applied Biology and Chemical Technology 應用生物及化學科技學系
AMA	Department of Applied Mathematics 應用數學系
AP	Department of Applied Physics 應用物理學系
APSS	Department of Applied Social Sciences 應用社會科學系
BEEE	Department of Building Environment and Energy Engineering 建築環境及能源工程學系
BME	Department of Biomedical Engineering 生物醫學工程學系
BRE	Department of Building and Real Estate 建築及房地產學系
CBS	Department of Chinese and Bilingual Studies 中文及雙語學系
CEE	Department of Civil and Environmental Engineering 土木及環境工程學系
COMP	Department of Computing 電子計算學系
EEE	Department of Electrical and Electronic Engineering 電機及電子工程學系
ENGL	Department of English and Communication 英文及傳意學系
FSN	Department of Food Science and Nutrition 食品科學及營養學系
HTI	Department of Health Technology and Informatics 醫療科技及資訊學系
ISE	Department of Industrial and Systems Engineering 工業及系統工程學系
LMS	Department of Logistics and Maritime Studies 物流及航運學系
LSGI	Department of Land Surveying and Geo-Informatics 土地測量及地理資訊學系
ME	Department of Mechanical Engineering 機械工程學系
MM	Department of Management and Marketing 管理及市場學系
RS	Department of Rehabilitation Sciences 康復治療科學系
SD	School of Design 設計學院
SFT	School of Fashion and Textiles 時裝及紡織學院
SHTM	School of Hotel and Tourism Management 酒店及旅遊業管理學院
SN	School of Nursing 護理學院

