



醫療及社會科學院 獲醫療衛生研究基金資助 開展新冠病毒病研究

FHSS Researchers Win Grants for New COVID-19 Projects

新冠病毒繼續肆虐全球，過去數月本港只有小量甚至全無本地感染個案，主要有賴嚴謹的邊境管制及檢疫措施。為紓緩疫情作出貢獻的還有香港理工大學（理大）醫療及社會科學院的研究人員。學院最近獲得食物及衛生局之醫療衛生研究基金於2019冠狀病毒病研究（第三批）資助中，撥款5,590萬元用作開展兩項相關新項目。

As the COVID-19 pandemic continues to rage around the world, Hong Kong has been experiencing months of low to zero local infections in recent months largely owing to the city's strict border controls and quarantine regulations. Greatly aiding this drop in local infections has been researchers from the Faculty of Health and Social Sciences (FHSS) of The Hong Kong Polytechnic University (PolyU), who recently secured a total of HK\$55.9million in grants in the 3rd batch of funding from the Health and Medical Research Fund (HMRF) of the Food and Health Bureau for two new commissioned COVID-19 projects.

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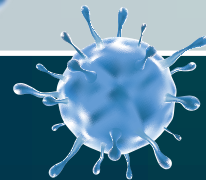


理大今年9月27日舉行新聞發布會，介紹獲得最新一輪撥款資助開展的兩個針對新冠病毒病的跨領域研究項目，以及獲得上一輪撥款資助的兩項研究的成果，展示醫療及社會科學院如何透過具影響力的研究為社會解決難題。

獲上一輪資助的兩個項目中，包括由醫療科技及資訊學系副教授蕭傑恒博士和團隊開發的新冠病毒病確診個案快速基因排序分析技術，用作識別包括變種病毒在內的病毒及追蹤輸入個案的源頭和傳播鏈，幫助政府迅速追蹤患者的密切接觸者並遏制變種病毒株在社區中傳播。團隊的研究成果已在多份國際期刊包括 *Emerging Infectious Diseases*, *The Lancet Regional Health—Western Pacific*, *Clinical Infectious Diseases*, *Journal of Hospital Infection*, and *Emerging Microbes & Infections* 上發表，當中包括於2020年率先發現並指出一名新冠病毒的無症狀感染者可能是病毒在社區爆發的源頭；追蹤分別於2021年4月及6月在本港出現的變種病毒株Beta及Delta感染個案的傳播鏈；以及追蹤2020年12月及2021年6月本地醫院爆發大規模新冠病毒感染的傳播鏈，並發現在2020年12月流行的是新變種病毒。

A PolyU press briefing on 27 September 2021 introduced the two new interdisciplinary projects as well as the results of two 2nd-round COVID-19 projects to illustrate how impactful FHSS-led research can be in addressing challenges in society.

One of the 2nd-round projects was led by Dr Gilman Siu Kit-hang, Associate Professor at PolyU's Department of Health Technology and Informatics. His team has been using whole-genome sequencing to identify different SARS-Cov-2 variants and their likely sources of entry and chains of transmission in the city, enabling health officials to quickly trace close contacts and curb further spread of the variants in the community. Several examples of the team's work have been published in the international journals *Emerging Infectious Diseases*, *The Lancet Regional Health—Western Pacific*, *Clinical Infectious Diseases*, *Journal of Hospital Infection*, and *Emerging Microbes & Infections*. They include identifying in 2020 for the first time that an asymptomatic person infected with SARS-Cov-2 could be the source of an outbreak; the transmission links of the first locally acquired cases of the Beta and Delta variants in the city in April and June 2021, respectively; and the transmission chains of outbreaks in two public hospitals in December 2020 and January 2021, respectively, of which the December outbreak was of another new variant.





此外，團隊又發現本港檢疫措施出現缺口並提出堵塞該缺口的建議。政府其後收緊機組人員和船員到港換班的豁免安排，並規定入境旅客必須入住指定檢疫中心或酒店，以及不可接待訪客。

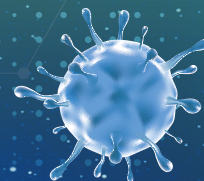
另一獲資助項目由應用社會科學系副系主任甄秋慧教授領導，研究接種疫苗的意願和「疫苗猶豫」。研究團隊在政府2021年2月推出「2019冠狀病毒疫苗接種計劃」前兩個月內，透過電話訪問本港市民，對象為成年人。調查發現全職工作的年長男性、曾經歷其他流行疾病、對疫苗安全性的關注度低、對冠狀病毒缺乏認識，以及主觀風險、自我效能、行動提示的接收程度和對政府防疫措施接受度較高的人士，偏向願意接種疫苗。團隊在六個月後的跟進訪問中發現，年長、認識確診或懷疑個案患者、主觀風險和對政府防疫措施的接受度較高的受訪者，接種疫苗的機會較高。有關研究結果已在國際學術期刊*Vaccines*上發表。

針對新冠疫情為社會帶來的問題，獲得第三輪撥款資助的其中一個項目包含五個獨立而互相關聯的研究，利用數碼科技為不同人群開發應對新冠病毒病的健康干預措施。有別於其他針對促進健康的研究，這個項目將邀請社區中不同群體的成員參與措施的開發和修改過程，務求提升這些措施的適當程度和成效。

Their genomic work has also led to their discovering and highlighting gaps in the city's quarantine practices that enabled variants to spread from arrivals to locals. The team's findings and recommendations led to the Government's banning of unrestricted air and sea crew changes in the city and restricting arrivals to stay in quarantine centres or designated hotels with visitors barred.

Another 2nd-round project was led by Prof. Elsie Yan Chau-wai, Associate Head of PolyU's Department of Applied Social Sciences, on vaccination intention and hesitancy. Through interviewing Hong Kong adults in the two months before the start of the Government's free COVID-19 vaccination programme in February 2021, her team found that those who were male, older, employed, had past experiences of other pandemics, were less concerned with vaccine safety, had poorer knowledge about COVID-19, and had higher levels of perceived susceptibility, self-efficacy, cues to action, and acceptance of the Government's preventive measures were significantly more likely to indicate an intention to vaccinate. From their six-month follow-up, those who were older, knew someone who was a confirmed or suspected case, and had higher levels of perceived susceptibility and acceptance of the Government's preventive measures were more likely to have received vaccination. Their findings have been published in the international journal *Vaccines*.

To address observed problems in the community that surfaced during the pandemic, one of the two new 3rd-round projects comprises five separate but inter-related studies that will utilise digital technology to create different COVID-19-related health interventions for different population groups. Unlike many other health promotions, the studies will involve stakeholders from the respective target groups in the creation and amendment of the interventions so as to increase the interventions' appropriateness and effectiveness.





這個項目由護理學院劉陳小寶健康延年教授、講座教授及學院主任莫禮士教授領導，名為「以社區為本參與性研究模式降低2019冠狀病毒病在香港的風險：社會和行為干預措施之開發及評估」，獲得2,760萬港元的撥款資助，將採用「社區為本、大眾參與」的研究方法，共包含五項研究。

The project is led by Prof. Alex Molasiotis as Project Coordinator, who is Angel S. P. Chan Lau Professor in Health and Longevity, Chair Professor of Nursing and Head of PolyU's School of Nursing. The project, titled "A community-based participatory research approach to reduce the COVID-19 risk in Hong Kong: developing and testing social and behavioural interventions", secured HK\$27.6million in the 3rd batch of funding.



研究 Study:
1

互助互進 齊心抗疫 AID (Assistance, Improvement, Development)

聯合首席研究員 Co-Principal Investigator :

護理學院助理教授謝瑤潔博士
Dr Grace XIE Yaojie, Assistant Professor, School of Nursing

在社區中提昇2019冠狀病毒病的及早檢測並促進疫苗接種
To increase early testing for COVID-19 and promote the uptake of COVID-19 vaccines in the community

研究 Study:
2

電子健康素養 Digital health literacy on COVID-19 for all

聯合首席研究員 Co-Principal Investigator :

護理學院教授及護理學院世界衛生組織社區健康服務合作中心副總監梁綺雯教授
Prof. Angela LEUNG Yee-man, Professor, School of Nursing;
Deputy Director, WHO Collaborating Centre for Community Health Services

提高少數族裔群體、慢性病患者及照顧者的電子健康素養和疫苗素養，以及促進2019冠狀病毒病的預防
To increase digital health literacy, vaccine literacy and promote preventive measures against COVID-19 in minority ethnic groups, chronically ill populations and caregivers

研究 Study:
3

Stay 屋企HK StayOkayHK

聯合首席研究員 Co-Principal Investigator :

護理學院助理教授何穎嘉博士
Dr Grace W. K. HO, Assistant Professor, School of Nursing

增強公眾居家抗疫的動機及避免不必要之高風險社交活動
To strengthen the public's motivation to stay at home and avoid non-essential high-risk social activities

研究 Study:
4

智能疫苗助理 AI-driven vaccine communicator

聯合首席研究員 Co-Principal Investigator :

護理學院助理教授（研究）李妍博士
Dr LI Yan, Research Assistant Professor, School of Nursing

減低2019冠狀病毒病的「疫苗猶豫」
To decrease COVID-19 vaccine hesitancy

研究 Study:
5

虛擬現實遊戲 Virtual reality game compliance

聯合首席研究員 Co-Principal Investigator :

醫療科技及資訊學系副教授及副系主任梁杏媚博士
Dr Polly LEUNG Hang-mei, Associate Professor and Associate Head,
Department of Health Technology and Informatics

強化學童預防2019冠狀病毒病的個人衛生習慣及提高及早檢測率
To enhance schoolchildren's adherence to hygiene practices and the uptake of early testing



主題
Sub-Theme:
A

針對冠狀病毒疫情自動追蹤的人工智慧平臺研究

An artificial intelligence-based digital contact-tracing platform for COVID-19 outbreaks

首席研究員 Chief Investigator:

護理學院副教授楊琳博士、助理教授（研究）Stefanos TYROVOLAS博士
Dr YANG Lin, Associate Professor, and Dr Stefanos TYROVOLAS, Research Assistant Professor, School of Nursing

主題
Sub-Theme:
B

開發COVID-19患者個性化治療和監測的生物標誌以用於精準預後和診斷

Development of precision prognosis and diagnostic biomarkers for the personalised treatment and monitoring of COVID-19 patients

首席研究員 Chief Investigator:

醫療科技及資訊學系助理教授黃千凌博士、教授及系主任葉社平教授
Dr HUANG Chien-ling, Assistant Professor, and Prof. YIP Shea-ping, Professor and Head, Department of Health Technology and Informatics

主題
Sub-Theme:
C

在 COVID-19下積極生活和改善身體健康的新型互動康復策略診斷

Novel interactive rehabilitation strategies to improve physical health and "active" living under COVID-19

首席研究員 Chief Investigator:

康復治療科學系副教授魏佩菁博士、助理教授林文軒博士
Dr Shirley NGAI Pui-ching, Associate Professor, and Dr Freddy LAM Man-hin, Assistant Professor, Department of Rehabilitation Sciences

主題
Sub-Theme:
D

為COVID-19康復者和照顧者開發結合正念的綜合健身氣功干預(IMBHQ)，以改善身心健康

Developing an integrated mindfulness-based health qigong intervention (IMBHQ) for COVID-19 survivors and caregivers to improve their physical and psychosocial wellness

首席研究員 Chief Investigator:

康復治療科學系講座教授及系主任曾永康教授、助理教授（研究）林晶霞博士
Prof. Hector TSANG Wing-hong, Chair Professor and Head, and Dr Jessie LIN Jingxia, Research Assistant Professor, Department of Rehabilitation Sciences

主題
Sub-Theme:
E

用於受COVID-19影響，生理和社交心理困擾者的預防、保護、進程監察智能健康平台

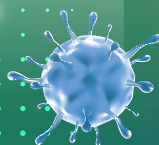
A smart health 3P (Prevention, Protection, Progression) platform for people with physiological and psychosocial distress under the influence of COVID-19

首席研究員 Chief Investigator:

護理學院副教授雷逸華博士
Dr Justina LIU Yat-wa, Associate Professor, School of Nursing

另一個獲資助項目同樣包含五個主題不同的獨立而互相關聯的研究，目標是幫助新冠病毒病康復者及其照護者應對由該病引致的中長期問題。這個項目由康復治療科學系副主任文偉光教授領導，名為「以預防、保護及促進方法作為預防2019冠狀病毒感染和促進患者康復的創新而有效的策略」，獲得2,830萬港元的撥款資助，將通過五個主題實現整體「3P」（預防、保護及促進）目標。

The other new project also consists of separate but inter-related studies centred on five sub-themes. It aims to treat the medium- and long-term effects of COVID-19 in COVID-19 survivors and their caregivers and in the general population. The project is led by Prof. David Man as Project Coordinator, who is Associate Head of PolyU's Department of Rehabilitation Sciences. The project, titled "**The Prevention-Protection-Promotion approach as a novel and effective strategy to prevent infection and enhance recovery in individuals with COVID-19**", won HK\$28.3million in the 3rd batch of funding.



醫療及社會科學院科研項目獲外界科研資助

FHSS Projects Win Competitive External Research Grants



由醫療及社會科學院學者及研究人員為主要研究員的項目，繼續獲得多項外界科研資金支持，以下為近期獲研究資金資助的項目：

Academics and other researchers from FHSS's constituent Departments and Schools regularly secure funding from different competitive grant schemes for their research projects as Principal Investigators. Below are the latest external grants obtained:



優配研究金 (大學教育資助委員會研究資助局)

General Research Fund (Research Grants Council, University Grants Committee, Hong Kong)

Dept	Principal Investigator	Project Title	Funding Amount (HK\$)
APSS	Dr Karita KAN Ching-yeung	Varieties of capital in rural land politics: a comparative analysis of land transfers and rural governance in Jiangsu and Guangdong	672,768
APSS	Dr Jasmine ZHU Shimin	Web-based single-session growth mindset intervention for adolescent anxiety: a three-arm cluster randomised control trial	498,386
APSS	Dr Jocelyn LIN Li*	Pursuing pleasure and/or growth? Developmental changes in happiness orientations and the role of parental socialisation during early adolescence	791,989
APSS	Dr ZHAN Yang	The making of a surplus population? An exploratory study of livelihoods among resettled peasants under economic uncertainties in industrial hubs in western China	641,668
APSS	Dr Janet LEUNG Tsin-ye	Parenting perfectionism and overparenting among Chinese parents in Hong Kong	899,619
APSS	Prof. Elsie YAN Chau-wai	Use of motivational interviewing for elder abuse intervention	1,063,392
APSS	Dr WU Qiaobing	Institutional and perceptual welfare boundary, social integration, and the health and well-being of children from migrant families in urban China: a multicity comparative study using mixed methods	1,464,963
APSS	Dr Jessica LI Chi-mei	Making sense of procedural justice at work: a qualitative study of Hong Kong police officers, arrested youths, and guardians	826,543
APSS	Dr Kaxton SIU Yu-kwan	Chinese investors in Vietnam and Cambodia and their impact on industrial relations systems and labour standards	994,823
HTI	Dr Kenneth CHENG King-yip	PPM1K restricts macrophage inflammation by integrating BCAA catabolism and mitochondrial metabolism in obesity	1,174,432

Dept	Principal Investigator	Project Title	Funding Amount (HK\$)
RS	Prof. Marco PANG Yiu-chung	Using functional near-infrared spectroscopy to study the changes in brain activity during dual-task walking and the effects of structured cognitive-motor exercise in individuals with stroke	1,041,232
RS	Prof. Hector TSANG Wing-hong	Unpacking the "mind" and "body" pathways of the antidepressant effect of qigong in older adults with chronic diseases	697,714
RS	Dr Benson LAU Wui-Man	Light for major depression: potential effect of photobiomodulation on neurogenesis and depression-like behaviour by low-energy laser irradiation	1,175,732
RS	Dr Edward HUI Sai-kam	Neuroarchitectural recovery model of post-stroke patients	1,143,269
RS	Dr Thomson WONG Wai-lung	The effects of attentional focus instructions on real-time conscious movement processing while walking in a challenging environment for older adults at risk of falling in Hong Kong: implications for rehabilitation	611,376
RS	Dr Sunny CHAN Ho-wan*	Neurobiological mechanisms underlying the effects of mindfulness-based intervention and tai chi chuan on sleep disturbance in older people	1,295,294
SN	Dr Harry QIN Jing	Virtual/augmented reality based planning and intraoperative guidance for precise laparoscopic cystectomy via advanced human-in-the-loop image segmentation, visualisation, and registration techniques	838,393
SO	Dr Allen CHEONG Ming-yan	The GRADE randomised trial: glaucoma rehabilitation with action viDeo games and exercise	446,837
SO	Dr Tina LIAN Jinxiao	What is the most cost-effective strategy of the routine sight test for the ageing population?	557,422

傑出青年學者計劃 (大學教育資助委員會研究資助局)

Early Career Scheme (Research Grants Council, University Grants Committee, Hong Kong)

Dept	Principal Investigator	Project Title	Funding Amount (HK\$)
SN	Dr Patrick KOR Pui-kin	The effects of a hybrid face-to-face and online mode of delivering a mindfulness-based dementia caregiving programme for family caregivers of persons with dementia: a randomised controlled trial	785,120

醫療衛生研究基金撥款資助研究2019冠狀病毒病(第三批)

Commissioned Research on the Novel Coronavirus Disease (COVID-19) under the Health and Medical Research Fund (Batch 3)

Dept	Principal Applicant	Project Title	Funding Amount (HK\$)
RS	Prof. David MAN Wai-kwong	The 3P (Prevention, Protection and Promotion) approach as a novel and effective strategy to prevent infection and enhance recovery in individuals with COVID-19	28,279,650
SN	Prof. Alex MOLASLOTIS	A community-based participatory research approach to reduce the COVID-19 risk in Hong Kong: developing and testing social and behavioural interventions	27,605,783

* This researcher is no longer at PolyU

研究影響基金 (大學教育資助委員會研究資助局)**Research Impact Fund (Research Grants Council, University Grants Committee, Hong Kong)**

Dept	Principal Investigator	Project Title	Funding Amount (HK\$)
RS	Prof. Kenneth FONG Nai-kuen	Wearable closed-loop neural control 'Remind-to-Move' treatment for hemiparetic upper extremity in people with hemiplegia after stroke	9,190,000

創新及科技基金—創新及科技支援計劃**ITF: Innovation and Technology Support Programme (ITSP)**

Dept	Principal Investigator	Project Title	Funding Amount (HK\$)
SN	Dr Harry QIN Jing	An automated urine cytopathology reporting system via advanced deep learning models driven by both data and human knowledge	2,325,760

創新及科技基金—內地與香港聯合資助計劃**ITF: Mainland—Hong Kong Joint Funding Scheme (MHKJFS)**

Dept	Principal Investigator	Project Title	Funding Amount (HK\$)
HTI	Prof. CAI Jing	Key technology development and multicentre validation for cervical cancer intelligent radiotherapy	1,688,200

學習交流計劃 Collaborative Project**萬人計劃****People's Republic of China Ten Thousand People's Scheme 2021**

Dept	Principal Investigator	Project Title	Funding Amount (RMB)
RS	Dr Billy SO Chun-lung	Collaborating project with Sun Yat-sen University	138,600

法國與香港合作研究計劃**PROCORE—France/Hong Kong Joint Research Scheme**

Dept	Principal Investigator	Project Title	Funding Amount (HK\$)
RS	Dr Bolton CHAU Ka-hung	Investigating the subjectivity of decision space represented in the prefrontal cortex	64,800

創新及科技基金—院校中游研發計劃**ITF: Midstream Research Programme for Universities (MRP)**

Dept	Principal Investigator	Project Title	Funding Amount (HK\$)
HTI	Prof. YIP Shea-ping	Developing a novel liquid biopsy-based molecular assay for the diagnosis of tuberculosis	2,299,860
SN	Dr Harry QIN Jing	Cardiac-Flow: a precise yet super-efficient diagnosis system for coronary artery disease based on deep learning and computational fluid dynamics	5,605,100

社會創新及創業發展基金**Social Innovation and Entrepreneurship Development Fund**

Dept	Principal Investigator	Project Title	Funding Amount (HK\$)
IAA	Dr BAI Xue	Model and capacity building for intergenerational digital literacy training for older adults in Hong Kong	2,994,339

**慈善基金資助項目 Foundation-Funded Projects****陳張敏聰夫人慈善基金****Chan Cheung Mun Chung Charitable Fund**

Dept	Principal Investigator	Project Title	Funding Amount (HK\$)
APSS	Dr Ben KU Hok-bun	Zhoushan project in Henan “夢裡老家” 第二工程及鄉村建設“培訓/研究基地”	1,383,278

凱瑟克基金**The Keswick Foundation**

Dept	Principal Investigator	Project Title	Funding Amount (HK\$)
RS	Mr TANG Kin-chung Mr Tony K. K. WONG	Community rehabilitation and education project—“Love Without Borders”	2,996,000

擇善基金會**ZeShan Foundation**

Dept	Principal Investigator	Project Title	Funding Amount (HK\$)
IAA	Dr BAI Xue	Create a knowledge hub for promoting active ageing and intergenerational solidarity	1,210,249

APSS : 應用社會科學系 Department of Applied Social Sciences**HTI** : 醫療科技及資訊學系 Department of Health Technology and Informatics**RS** : 康復治療科學系 Department of Rehabilitation Sciences**利希慎基金****Lee Hysan Foundation**

Dept	Principal Investigator	Project Title	Funding Amount (HK\$)
RS	Prof. Hector TSANG Wing-hong	Teachers Wellness MED Program	2,920,920

和富慈善基金**Wofoo Foundation**

Dept	Principal Investigator	Project Title	Funding Amount (HK\$)
APSS	Prof. Daniel SHEK Tan-lei	Holistic development and well-being of young people in Hong Kong	2,000,000

擇善基金會及李錦記家族基金**ZeShan Foundation and Lee Kum Kee Family Foundation**

Dept	Principal Investigator	Project Title	Funding Amount (HK\$)
IAA	Dr BAI Xue	Intergenerational engagement in secondary schools (i-GESS)	2,954,611

SN : 護理學院 School of Nursing**SO** : 眼科視光學院 School of Optometry**IAA** : 活齡學院 Institute of Active Ageing

醫療及社會科學院的研究員亦有以共同研究員身份參與研究項目。詳情可瀏覽：

FHSS staff members also contribute in research projects as Co-Investigators. For details, please visit:

<https://www.polyu.edu.hk/fhss/-/media/departments/fhss/content/publication/newsletter/research-grants-table.pdf>

全新人工智能系統無需認知測試 亦可評估患認知障礙症風險

New AI System Can Assess Dementia Risk Without Cognitive Testing



認知障礙症由誘發腦細胞受損而導致腦功能慢性衰退的狀況和疾病引起。香港醫院管理局數據顯示，65歲以上的香港人口中有大約5至8%患有認知障礙症，80歲以上則有20至30%。

2020年《刺針》認知障礙症委員會指出，全球約35%認知障礙症病例是由可改變的生活方式和行為風險因素所致。在香港，簡易心智量表（MMSE）常用於評估有記憶力下降症狀的人士，亦會用作評估認知障礙症的疑似患者。然而，重複使用這份認知評估問卷可導致「練習效應」，令其效用降低。為免以這量表評估無症狀的長者，理大護理學院的智能健康研究中心總監蔡及時教授及其團隊，聯同學院助理教授關耀祖博士，研發出一套人工智能系統，讓長者服務中心或安老院舍可根據長者的健康數據評估他們患認知障礙症的風險，令患者得到及時跟進和支援，以及延緩發病時間。

為開發這套人工智能評估系統，研究團隊將2,299名長者的基本個人資料和健康數據包括基本體檢數據、病史、健康評估得分和他們最喜愛的活動輸入系統。這些長者都是在2008至2018年間曾接受護理學院聯同非政府機構營運的長者服務中心提供的流動醫療服務的人士。這套人工智能評估系統在識別患認知障礙症的高風險人士（按「簡易心智量表」定義）的精確度為88%。

這套系統讓長者服務中心和安老院舍的工作人員能夠簡易地將長者的最新健康數據上傳到系統，以定期評估長者患認知障礙症的風險，並提醒他們為患者安排醫療跟進，既減省了為長者進行額外測試的工作，亦可避免「簡易心智量表」的「練習效應」。護理學院團隊希望與更多長者服務中心合作，以進一步完善系統。




Dementia is caused by conditions and diseases which induce brain cell damage leading to a chronic decline in brain functions. According to Hong Kong's Hospital Authority, about 5–8% of people aged over 65 years old and 20–30% of those older than 80 in the city have dementia.

A 2020 Lancet Commission on dementia suggested that some 35% of dementia cases worldwide are due to modifiable lifestyle and behavioural risk factors. In Hong Kong, the Mini-Mental State Examination (MMSE), a cognitive assessment questionnaire that is commonly administered when symptoms of memory decline have appeared, is also given to people who are suspected of having dementia. However, this could skew their results in the future as a consequence of their practice of the questionnaire. To avoid using the MMSE to screen asymptomatic older and elderly adults, a team from PolyU's School of Nursing (SN) led by Prof. Thomas Choi Kup-sze, Director of SN's Centre for Smart Health, and his colleague Dr Rick Kwan Yiu-cho, Assistant Professor, have developed an artificial intelligence (AI) system that can assess their dementia risk by analysing their health data given to elderly community centres or residential care homes. By identifying those who have a high risk of dementia, timely intervention and support can be provided to help them delay the onset of dementia.


To develop the machine learning-based AI assessment system, the team inputted demographic and health data that were collected of 2,299 community-dwelling older and elderly clients of mobile healthcare services that SN had offered from 2008 to 2018 in collaboration with NGO-run elderly care centres around Hong Kong. The health data included the clients' bio-measurements from a basic health check-up, their medical history, their scores on different health assessments, and their favourite activities. The AI assessment system proved to be 88% accurate in identifying the clients with a high risk for dementia (as defined by the MMSE).

The AI assessment system enables staff of elderly community centres and residential care homes to easily upload updated health data of their clients to the system to assess the clients' dementia risk at regular intervals, which can alert them to those who may need healthcare follow-up. Thus, the system eliminates the need to administer additional tests and avoids a practice effect of the MMSE. The SN team hopes to collaborate with more elderly community centres to further refine the system.

醫療及社會科學院在教資會2020年研究評審工作中取得驕人成果 FHSS Achieves Remarkable Results in Research Assessment Exercise 2020


 香港大學教育資助委員會最近公布2020年研究評審工作的結果，理大醫療及社會科學院的多項卓越研究獲得四星「世界領先水平」及三星「國際卓越水平」評級。


醫療及社會科學院在「醫學及衛生科學」類別中的表現較2014年的評審結果有兩倍提升，在「社會科學」類別中的表現亦較上次評審有70%升幅。眼科視光學院就是次評審提交的研究項目，有88%被評級為四星及三星。此外，在醫療及社會科學院提交的研究影響個案中，跨院校項目「共創成長路」獲得「世界領先水平」的評級，這個研究項目由理大應用社會科學系講座教授、協理副校長（本科生課程）及利豐服務領導教育教授石丹理教授提交。

 The world-class quality of research produced by FHSS staff was reaffirmed recently when Hong Kong's University Grants Committee (UGC) announced the results of its Research Assessment Exercise (RAE) 2020, with FHSS's performance rated as 4*+3*, indicating it is "world leading" or "internationally excellent".

In the category of "Health Sciences", our Faculty saw a twofold improvement from our performance in the RAE 2014, while our performance in the category of "Social Sciences" was 70% better than last time. The research outputs submitted by our School of Optometry for the RAE 2020 scored 88% for a rating of 4*+3*. In addition, among FHSS's submitted impact case studies, the inter-institutional Project P.A.T.H.S. led by Prof. Daniel T. L. Shek, Chair Professor of Applied Social Sciences at our Department of Applied Social Sciences who is also Li & Fung Professor in Service Leadership Education and PolyU's Associate Vice President (Undergraduate Programme), was rated as "world leading".

醫療及社會科學院研究人員躋身全球首2%最廣獲徵引科學家 FHSS Researchers Among World's Top 2% Most-Cited Scientists

 由美國史丹福大學John Ioannidis教授領導的研究團隊編制的排行榜，合共16位醫療及社會科學院的研究人員獲列入全球首2%最廣獲徵引科學家。排行榜列出全球首10萬位最廣獲徵引科學家，由根據截至2019年的Scopus文獻計量數據，對全球超過680萬位在Scopus發表了至少5篇論文的研究人員進行排列，這些研究人員涵蓋22個學術領域和176個細項分類（按Science-Matrix定義）。Scopus是全球最大的科學相關文獻數據庫之一。衷心恭賀以下醫療及社會科學院研究人員！

 Sixteen FHSS researchers have been ranked among the top 2% of the most-cited scientists in the world, according to a new index compiled by Prof. John P. A. Ioannidis of Stanford University and his collaborators. To produce the rankings of the world's top 100,000 most-cited scientists, more than 6.8 million researchers in over 22 scientific fields and 176 sub-fields (as defined by Science-Matrix) who have published at least five papers each in Scopus, one of the world's largest databases of science-related literature, were rated according to Scopus's bibliometric data up to 2019. Congratulations to the following FHSS researchers!

學系 / 學院 Department	研究人員 Researcher	領域 Subject Sub-Field
APSS	黎永亮教授* Prof. Daniel W. L. Lai*	老年學 Gerontology
APSS	石丹理教授 Prof. Daniel T. L. Shek	內分泌與代謝 Endocrinology & Metabolism
APSS	葉錦成教授* Prof. Yip Kam-shing*	社會工作 Social Work
APSS	嚴海蓉博士 Dr Yan Hai-rong	文化研究 Cultural Studies
HTI	Prof. Iris F. F. Benzie*	營養及營養學 Nutrition & Dietetics
RS	陳智軒教授* Prof. Chetwyn C. H. Chan*	康復治療 Rehabilitation
RS	吳賢發教授* Prof. Gabriel Y. F. Ng*	康復治療 Rehabilitation
RS	彭耀宗教授 Prof. Marco Y. C. Pang	康復治療 Rehabilitation
RS	曾永康教授 Prof. Hector W. H. Tsang	精神病學 Psychiatry
RS	余其殷教授 Prof. Benjamin K. Yee	神經學及神經外科 Neurology & Neurosurgery
SN	李匡博士* Dr Paul H. Lee*	普通內科 General & Internal Medicine
SN	莫孫淑冰教授* Prof. Esther S. B. Mok*	護理學 Nursing
SN	莫禮士教授 Prof. Alex Molasiotis	腫瘤學及癌症 Oncology & Carcinogenesis
SN	孫桂萍博士* Dr Lorna K. P. Suen Kwai-ping*	輔助及替代醫學 Complementary & Alternative Medicine
SN	黃金月教授 Prof. Frances K. Y. Wong	護理學 Nursing
SO	曹黃惠華教授 Prof. Pauline Cho	眼科及眼科視光學 Ophthalmology & Optometry

APSS: 應用社會科學系 Department of Applied Social Sciences

HTI: 醫療科技及資訊學系 Department of Health Technology and Informatics

RS: 康復治療科學系 Department of Rehabilitation Sciences

SN: 護理學院 School of Nursing

SO: 眼科視光學院 School of Optometry

*已退休或離任 Retired or have since left PolyU

六位理大學者躋身全球首200名頂尖眼科視光學研究員排行榜

Six PolyU Scholars in World's Top 200 for Optometry Research



曹黃惠華教授
Prof. Pauline Cho



葉健雄教授
Prof. Maurice Yap



杜嗣河教授
Prof. Chi-ho To



艾綺華教授
Prof. Marion Edwards



林小燕教授
Prof. Carly Lam



林國璋博士
Dr Andrew Lam



最新發表的一個全球眼科視光學研究員排行榜中，理大眼科視光學院有6位學者躋身首200名，其中兩位更位列百強。在該排行榜參照200位獲選學者所屬院校而計算得出的排名中，理大在全球72所院校中名列第16位，香港更位列亞洲之首及全球第6位。而理大眼科視光學院是香港唯一提供眼科視光學學位課程的院校。

兩位躋身百強的理大學者分別是早前獲另一項研究分析評為角膜矯形術領域中「最具影響力學者」的曹黃惠華教授（詳情見第29期《健訊》），以及眼科視光學講座教授、胡廣佩家族眼科視光學教授及醫療及社會科學院前院長葉健雄教授。位列首200名的另外4位學者分別是科研眼科視光學講座教授、梁顯利長者健康視覺教授及學院主任杜嗣河教授、前學院主任艾綺華教授、林小燕教授，以及副教授及副學院主任林國璋博士。

該排行系統（載於網頁<https://optomrankings.com>）根據Scopus同行評審科學期刊文摘和引文資料庫的數據每天更新。



A recently launched global ranking system for optometry researchers has listed two PolyU School of Optometry (SO) scholars among its Top 100 and another four in its Top 200. On the basis of the Top 200 scholars' institutional affiliations, PolyU ranked 16th among the 72 eligible institutions and Hong Kong ranked as Asia's top country or region in optometry research and 6th worldwide. SO is Hong Kong's only home of tertiary education in optometry.

SO's Prof. Pauline Cho, who was earlier ranked as the world's most impactful author in orthokeratology research in a different survey (please see issue 29 of *Health News*), and Prof. Maurice Yap, who is K. B. Woo Family Professor in Optometry, Chair Professor of Optometry and a former Dean of FHSS, were named in the Top 100. They were joined in the Top 200 by Prof. Chi-ho To, who is Henry G. Leong Professor in Elderly Vision Health, Chair Professor of Experimental Optometry and Head of SO; Prof. Marion Edwards, who is retired and a former Head of SO; Prof. Carly Lam; and Dr Andrew Lam, Associate Professor and Associate Head of SO.

The ranking system (at <https://optomrankings.com>) automatically retrieves and analyses bibliometric data daily from the Scopus database of peer-reviewed literature in science.

醫管局代表團到訪醫療及社會科學院

Hospital Authority Delegations Visit FHSS



理大校長滕錦光教授和常務及學務副校長黃永德教授，以及醫療及社會科學院院長岑浩強教授，於今年5月14日接待香港醫管局行政總裁范鴻齡先生及其團隊到訪醫療及社會科學院。訪問團與學院轄下學系和學院的代表會面，以了解學院的最新發展和科研成就，並參觀了校園內的結合保健診所、眼科視光學診所和康復治療中心（物理治療）。

另外，九龍醫院及香港眼科醫院醫院管治委員會主席林濬先生和醫院行政總監林美怡醫生及其團隊於今年8月19日，與醫療及社會科學院的代表會面，討論未來的醫療發展方向及合作空間。



Prof. Jin-Guang Teng, PolyU's President, Prof. Wing-tak Wong, PolyU's Deputy President and Provost, and Prof. David H. K. Shum, Dean of FHSS, welcomed a delegation from Hong Kong's Hospital Authority (the HA) led by its Chairman, Mr Henry Fan Hung-ling, SBS, JP, to FHSS on 14 May 2021. The delegation met representatives of FHSS's constituent Departments and Schools to learn more about their latest developments and research achievements. They also visited the on-campus Integrated Health Clinic, Optometry Clinic and Rehabilitation Service Centre (Physiotherapy).

On 19 August 2021, another HA delegation, which was led by Mr Daniel Lam Chun, Chairman of the Hospital Governing Committee of Kowloon Hospital and Hong Kong Eye Hospital, and Dr Jenny Lam Mei-yee, Hospital Chief Executive of Kowloon Hospital and Hong Kong Eye Hospital, met FHSS representatives to discuss areas of mutual interest for their future plans.



新任命
Senior
Appointment

應用社會科學系新任系主任履新 Appointment of New Head, Department of Applied Social Sciences

崔永康教授於2021年9月1日履任理大應用社會科學系系主任，崔教授加入理大前是香港城市大學學務長。
Prof. Eric CHUI Wing-hong joined PolyU's Department of Applied Social Sciences as its new Head from 1 September 2021. He is formerly a professor and Dean of Students at City University of Hong Kong.

研究興趣 Research interests

青年與犯罪、犯罪學、刑事司法、青年社會工作
Youth and crime; criminology; criminal justice; youth social work



榮升講座教授 Congratulations on Promotion to Chair Professor!

黃金月教授
Prof. Frances WONG Kam-yuet

護理學院 School of Nursing

研究興趣 Research interests

高級護理實踐、過渡期護理、居家安老、服務模式、再入院治療、課程設計
Advanced nursing practice; transitional care; ageing in place; service models; hospital readmissions; curriculum design



榮升教授 Congratulations on Promotions to Professor!

甄秋慧教授
Prof. Elsie YAN Chau-wai

應用社會科學系
Department of Applied Social Sciences

研究興趣 Research interests

家庭暴力（專注虐老）、老年性行為、
認知障礙症護理
Family violence with particular focus on
elder abuse; elder sexuality; dementia care



梁綺雯教授
Prof. Angela LEUNG Yee-man

護理學院
School of Nursing

研究興趣 Research interests

提升健康認知和促進健康的科技、認知障
礙症的認知和培訓、照顧者的心理健康
Health literacy and health promotion via
technology; dementia literacy and training;
caregivers' psychological well-being



理大管理層到訪醫療及社會科學院 Members of PolyU's Central Management Team Visit FHSS



理大管理層於今年5月26日到訪醫療及社會科學院，由學院院長岑浩強教授及各學系和學院代表接待，並向校長滕錦光教授、常務及學務副校長黃永德教授，以及副校長（教學）黃國賢教授簡介學院的最新發展。



Members of PolyU's Central Management Team visited FHSS on 26 May 2021. Prof. David H. K. Shum, Dean of FHSS, and representatives of FHSS's constituent Departments and Schools were on hand to greet them. The members, namely Prof. Jin-Guang Teng, PolyU's President, Prof. Wing-tak Wong, PolyU's Deputy President and Provost, and Prof. Kwok-Yin Wong, PolyU's Vice-President (Education), were also briefed by Prof. Shum and the representatives on the latest developments of the Faculty.



理大與滑鐵盧大學合作成立眼視覺研究中心 PolyU and University of Waterloo's New Centre for Eye and Vision Research

香港科技園公司及視覺科學學院在今年3月26日舉辦題為「嶄新視覺研究：預防及復修受損視力」網上研討會，介紹由理大與加拿大滑鐵盧大學合作成立的眼視覺研究中心的目標和科研工作。這所先進的研究中心的目标是促進在預防視力受損或恢復健康視力方面的全球跨學科合作及新科技商品化。

滑鐵盧大學眼科視光及視覺科學學院教授兼眼視覺研究中心行政總監及科學總監Benjamin Thompson教授在講座中介紹一項已成功商品化的研究，他以神經可塑性治療基於大腦而引起的眼疾，例如運用經修改的影像遊戲對大腦進行非入侵性的刺激，以治療成人弱視。此外，理大眼科視光學院主任兼眼視覺研究中心營運總監及副科學總監杜嗣河教授亦談及由他的團隊研發用於控制兒童近視加深的光學離焦(DISC)軟性隱形眼鏡和多區正向光學離焦(DIMS)眼鏡片，這項發明屢獲獎項並已成功商品化。有關眼視覺研究中心的詳情，請瀏覽 <https://cevr.hk>。

On 26 March 2021, a webinar titled "Pioneering Vision Research for Preventing and Reversing Visual Impairment" was hosted by Hong Kong Science and Technology Parks Corp. to introduce the state-of-the-art Centre for Eye and Vision Research (the CEVR), which is a joint initiative by PolyU and Canada's University of Waterloo (Waterloo). The webinar outlined the CEVR's aim of facilitating global interdisciplinary collaborations in research and commercialisation of resultant new technologies to prevent vision loss or restore healthy vision.

Prof. Benjamin Thompson of Waterloo's School of Optometry and Vision Science, who is the CEO and the Scientific Director of the CEVR, described his work that exploits neuroplasticity to treat brain-based visual disorders, such as his commercially successful modified video game for treating amblyopia in adults, and non-invasive brain stimulation. Prof. Chi-ho To of PolyU's School of Optometry, who is the COO and the Deputy Scientific Director of the CEVR, spoke about his team's research and invention of their award-winning and commercially successful DISC contact lens and DIMS spectacle lens for controlling myopia progression in children. For more details about the CEVR, please visit <https://cevr.hk>.



人文學院與醫療及社會科學院合辦傑出學者講座 探討運用神經科學和正念提升健康 FH-FHSS Joint Distinguished Lecture on Utilising Neuroscience and Mindfulness for Well-Being

理大醫療及社會科學院與理大人文學院於今年5月7日在網上合辦傑出學者講座，以「神經科學和正念助你提升健康以應對疫情（及將來）」為主題，邀得美國麻省大學醫學院臨床醫療心理學家Christine Runyan 教授擔任主講。Runyan 教授指出，過量的壓力會減低人們在未來應對壓力的耐受性，只有在受壓後有足夠時間康復，人們才能建立個人抗逆能力。她又指出，為抗疫而採取的社交距離措施阻礙了人們發揮在集體危機下凝聚、互相照顧和結成夥伴的本能。Runyan 教授根據認知行為療法理論指出，人的情緒會受到其思想、行為和身體感覺影響，因為它們相互關聯。因此，人們可以嘗試運用一些技巧，例如緩慢的橫膈膜呼吸練習，減低壓力水平。她又建議人們應經常練習正念和接受當下，這有助於增加對壓力的耐受性，亦可透過對他人和自己表達同情心，讓身體釋放催產素和多巴胺。

On 7 May 2021, FHSS and PolyU's Faculty of Humanities (FH) co-organised an FH-FHSS Joint Distinguished Lecture titled "Leveraging Neuroscience and Mindfulness to Maintain Well-Being in the Pandemic (and Beyond)", which was delivered online by Prof. Christine Runyan, a clinical health psychologist from the University of Massachusetts Medical School, the US. She pointed out that too much stress can reduce a person's "window of tolerance" for coping with stress in the future, and personal resilience can be built up only if a period of stress is followed by an adequate period of recovery. She added that anti-pandemic social-distancing measures have prevented people from instinctively coming together physically to "tend-and-befriend" during collective crises. Drawing on cognitive behavioural therapy theory, Prof. Runyan said a person's emotions are interconnected with and thus can be affected by his or her thoughts, behaviour, and body sensations. People can therefore try to reduce their stress levels through techniques utilising body sensations, such as slow diaphragmatic breathing. She also suggested regularly practising mindfulness, or awareness and acceptance of the present moment, which can help widen the window of tolerance, and to show compassion to others and oneself to release oxytocin and dopamine.



醫療及社會科學院傑出學者講座探討改善視障人士的視力 FHSS Distinguished Lecture on “Enhancing Vision in the Visually Impaired”



今年3月9日於網上舉行的「醫療及社會科學院傑出學者講座」，邀得美國加州大學伯克萊分校眼科視光學院鍾芷苓教授主講。鍾教授介紹了幫助視障人士增強視力的非入侵性臨床方法，例如光學輔助設備；具備增強放大率或對比度、重映字距或支援虛擬實境功能的電子設備；以及流動電話應用程式的最新發展，又談及其團隊研究運用視覺輸入修正和知覺學習，如快速連續視覺呈現方法，改善中央視力缺損人士的閱讀速度或容貌識別能力。



On 9 March 2021, Prof. Susana Chung of the School of Optometry, University of California, Berkeley, delivered an FHSS Distinguished Lecture online on “Enhancing Vision in the Visually Impaired”. Prof. Chung described some recent advances in non-invasive clinical methods to enhance vision for the visually impaired, such as optical aids; mobile apps; and electronic devices that can enhance magnification or contrast, spatially remap text, or facilitate augmented reality. Prof. Chung also described her and her collaborators’ research using visual input modification and perceptual learning for improving the reading speed or the face recognition ability of people with central vision loss.



醫療及社會科學院舉辦促進臨床技巧教學工作坊 FHSS Pedagogical Workshop on Enhancing Clinical Skills Learning



醫療及社會科學院在今年6月30日為學院教職員舉辦以「促進臨床技巧學習：課室、網上和模擬實驗室——拉近與實際臨床實踐的距離及提升表現」為主題的網上工作坊，由來自香港大學牙醫學院的布德祿教授擔任主講。布德祿教授指出，醫療護理學生從教學或模擬環境過渡至真實臨床環境中進行實踐，可能會缺乏信心，或在應對不同的臨床情況時感到壓力，因而影響臨床表現。他又談及運用基於合成臨床經驗的提問式學習和替代學習的對話影片以裝備學生進行臨床實踐，並分享其觀點。



FHSS held an online workshop on 30 June 2021 for its staff titled “Enhancing Clinical Skills Learning: In-Class, Online and in Sim Lab—Closing the Clinical Transition Gap and Improving Practice”, which was delivered by Prof. Dr Michael Botelho of The University of Hong Kong’s Faculty of Dentistry. Prof. Botelho said health students transitioning from practising in educational or simulated settings to practising in clinical environments may experience a lack of confidence or become stressed in clinical situations, which may lead to reduced clinical outcomes. He shared his perspective of using enquiry-based learning and vicarious-learning dialogue videos using synthetic clinical experiences to better equip students for clinical practice.



醫管局數據及人工智能實驗室工作坊 FHSS Workshop on HA Data Collaboration and Artificial Intelligence Labs



香港醫管局於2019年推出大數據分析平台，以加強與外界在醫療數據研究方面的合作，從而幫助制定香港的醫療政策及改善公共臨床和醫療護理服務。理大醫療及社會科學院在今年5月12日為教職員和研究生舉辦工作坊，介紹醫管局的數據實驗室及人工智能實驗室。講者包括醫管局高級系統經理（人工智能系統）李璧堅先生，以及醫管局數據實驗室及人工智能實驗室經理Efstratios Tsougenis博士。



In 2019, Hong Kong’s Hospital Authority (the HA) launched its Big Data Analytics Platform to further collaborations between the HA and external parties in health data research with the aim of helping to shape the city’s healthcare policies and improve its public clinical and healthcare services. To this end, FHSS organised a workshop on 12 May 2021 for its staff and research students on the Hospital Authority Data Collaboration Lab (HADCL) and Artificial Intelligence Lab initiatives featuring guest speakers Mr Dennis Lee, Senior Systems Manager (Artificial Intelligence Systems), and Dr Efstratios Tsougenis, Manager (Hospital Authority Data Collaboration Lab and Artificial Intelligence Lab), from the HA.



以人類為實驗對象之操守工作坊 FHSS Workshop on Ethical Research in Humans



醫療及社會科學院於今年3月29日為教職員和研究生舉辦以「人類實驗對象研究的原則和要求」為主題的網上工作坊，由澳洲蒙納士大學醫療影像及放射科學系副主任、研究總監兼研究生聯絡主任 Michal Schneider 教授擔任主講。Schneider教授以真實例子解釋研究人員道德行為的基礎概念；他們對操守委員會及參與者和同事的責任；與同意和保密相關的常見問題；以及關於出版的道德行為。



On 29 March 2021, FHSS held a workshop titled "Principles and Requirements for Ethical Research in Humans" for its staff and research students, which was delivered online by Prof. Michal Schneider, who is Deputy Head, Director of Research, and Higher Degree Research (HDR) Student Coordinator of the Department of Medical Imaging and Radiation Sciences, Monash University, Australia. Using examples from real projects, she spoke about the foundations of ethical conduct by investigators; responsibilities to ethics committees, participants and colleagues; common issues associated with consent and confidentiality; and ethical conduct in publishing.



研究資助申請書寫作講座 FHSS Workshop on Writing Successful GRF/ECS Grant Applications



科研為理大的核心領域之一，醫療及社會科學院在今年5月25日舉辦以撰寫研究資助申請書為主題的講座，針對優配研究金（GRF）及為新進學者而設的傑出青年學者計劃（ECS）的申請，邀得澳洲坎培拉大學健康科學院心理學系榮休教授麥呂瑞華教授擔任主講。麥教授以其在研究資助局出任人文學及社會科學學科小組成員的六年經驗，分享她對成功和失敗的資助申請書的觀察。



As research is one of PolyU's core areas, FHSS hosted an online workshop on 25 May 2021 on writing General Research Fund (GRF) and Early Career Scheme (ECS) research grant applications for its early- and mid-career staff by guest speaker Prof. Anita Mak, Emeritus Professor of Psychology at the Faculty of Health, University of Canberra, Australia. Prof. Mak drew on her six years of experience as a member of the Research Grants Council's Humanities and Social Sciences Panel to share her observations of the differences between successful and unsuccessful GRF and ECS grant applications.



理大畢業班大使 PolyU Graduating Class Ambassadors



理大畢業生眾多，校友網絡隨年擴大，而加強校友之間的聯繫並培養他們對母校的歸屬感是大學的重點工作之一。今年，來自醫療及社會科學院的5個學系及學院共20位應屆畢業生，獲理大校友事務及拓展處委任為新年度的畢業班大使，於畢業後致力維繫理大與校友之間的關係，向校友介紹相關的校友會，以及推動並鼓勵校友參與理大活動。



PolyU has a vast pool of graduates and our network is expanding every year. It is one of the University's priorities to strengthen relationships with and among its alumni and to foster in them a lifelong connection with their alma mater. This year, 20 final-year students from across FHSS's five constituent Departments and Schools have been appointed as new PolyU Graduating Class Ambassadors by the University's Alumni Affairs and Development Office to maintain contact between PolyU and their fellow classmates after graduation, introduce the relevant PolyU alumni association to them, and promote alumni activities and encourage them to participate.



2021 香港科學節 HK SciFest 2021



理大醫療科技及資訊學系和眼科視光學院再度與香港科學館合辦一年一度的香港科學節，旨在於本港推廣普及科學和建立科學文化。2021香港科學節以「科技創未來」為主題，醫療科技及資訊學系前臨床導師蕭樹實先生於今年3月27日主持以「醫療影像科技：昨天、今天、明天」為題的網上公開講座。眼科視光學院副顧問眼科視光師彭志剛醫療科學博士亦於4月10日主持另一網上公開講座，主題為「弱視治療：由遮眼至虛擬實景的演進」。



PolyU's Department of Health Technology and Informatics (HTI) and School of Optometry (SO) once again partnered with the Hong Kong Science Museum for its annual HK SciFest, which aims to promote popular science and establish a culture of science in Hong Kong. In keeping with HK SciFest 2021's theme of "Technology for Our Future", Mr Bobby Shiu Shu-po, a then Clinical Associate of HTI, delivered a public lecture online titled "Medical Imaging Technology: Past, Present and Future" on 27 March. On 10 April, Dr Peter C. K. Pang, Associate Consultant Optometrist at SO, gave a public lecture online titled "Amblyopia Treatment: Transition from Occlusion to Virtual Reality".

網上校園活動

Online and On-Campus Events for Prospective Students



香港的新冠病毒本地感染個案減少，理大除了繼續致力於網上舉辦課程資訊講座外，亦逐漸恢復校園內的小型活動，讓中學生更加了解理大的本科課程、就業前景及入學要求。

理大教務處於今年3月和4月再度舉辦「理大與您：網上專題講座系列」，其中包括由眼科視光學院副顧問眼科視光師伍尚舜博士，於4月9日主講以「近視控制有理據」為題的講座。如欲重溫講座的內容，請瀏覽理大的Youtube頻道。

教務處於今年7月和8月為中四和中五學生舉辦「理大暑期活動」，當中醫療及社會科學院各學系和學院為參加者安排了多項互動活動，包括參觀教學和研究設施、實驗室工作坊、講座，以及學生和校友分享會。

康復治療科學系和眼科視光學院亦聯同教務處，於今年4月為中五學生安排為期兩天的「影子實習」活動。這項全新活動可讓學生於診所的環境中近距離體驗職業治療師、物理治療師及眼科視光師的日常工作，以及獲得就業指導和行業資訊。

此外，各學系和學院在5月至8月期間亦與教務處攜手，為中四和中五學生推出全新的「青少年研究指導計劃」。在這項計劃下，獲選學生均獲安排參與不同的研究項目，讓他們得以向經驗豐富的研究人員學習，從而培養對研究和相關學科的興趣。

醫療及社會科學院亦參與教務處於5月22日舉辦網上「2021理大聯招課程諮詢日：入學策略」，讓大學聯招申請人在更改課程選擇前，了解理大的招生安排和課程資訊。

理大環球事務處在今年5月8日也為內地高中學生舉辦網上講座，應用社會科學系教授兼醫療及社會科學院副院長陳曉華教授，介紹其關於語言如何影響個人思維的研究。



As Hong Kong saw a drop in locally acquired COVID-19 cases over the past few months, PolyU continued to offer large-scale events online as well as resumed small-scale events on campus for secondary students to learn more about its undergraduate programmes, associated career prospects, and admissions requirements.

PolyU's Academic Registry (AR) organised the second PolyU & You: Online Lecture Series in March and April 2021, which included a talk titled "Evidence-Based Myopia Control" on 9 April 2021 by Dr Vincent Ng, Associate Consultant Optometrist at PolyU's School of Optometry. A video recording of the talk can be viewed on PolyU's YouTube channel.

In July and August 2021, FHSS's Departments and Schools arranged mostly in-person events for AR's annual PolyU Summer Programme for Secondary 4 and 5 students. Among the interactive activities our Departments and Schools offered were tours of their teaching and research facilities, laboratory workshops, talks by teaching staff, and sharing sessions by FHSS students and alumni.

In addition, FHSS's Department of Rehabilitation Sciences and School of Optometry partnered with AR to offer two-day job shadowing in relevant clinics for Secondary 5 students this April. The new initiative enabled the students to observe the day-to-day responsibilities of occupational therapists, physiotherapists and optometrists, respectively, as well as to gain career advice and industry insights from them.

FHSS's Departments and Schools also took part in AR's new Junior Research Mentoring Programme for Secondary 4 and 5 students from May to August this year. The school-nominated students worked with and learned from experienced FHSS researchers on a research project, fostering the students' interest in research and the respective discipline.

On 22 May 2021, FHSS also took part in the virtual PolyU JUPAS Consultation Day 2021: Admission Strategies that was organised by AR. The event provided an opportunity for HKDSE applicants to update themselves with PolyU's admissions arrangements and programme details before they made any changes to their programme choices.

For prospective students in Mainland China, FHSS teamed up with PolyU's Global Engagement Office to host a webinar on 8 May 2021. The webinar also included an introduction by Prof. Sylvia Xiaohua Chen of our Department of Applied Social Sciences, who is also Associate Dean of FHSS, to her research on how language affects an individual's way of thinking.



全新網上課程講解心肺疾病的識別與管理

New Online Course on Identifying and Managing Cardiopulmonary Diseases



心肺疾病是影響心臟、血管和肺的疾病，包括心臟病、血管阻塞等心血管疾病，以及慢性肺病。

由理大開辦名為「心肺健康與疾病的跨學科管理」的全新大型開放式網絡課程（MOOC）已在edX平台推出，目標是加強公眾、學生，以及從事醫療護理和其他以人為本的服務的人士對常見心肺疾病的認識，包括成因和病徵，以及病人和照顧者的心理社會需要，並介紹如何解讀疾病檢測結果及不同的醫護人員在疾病管理團隊中的角色和協作。這項課程由理大康復治療科學系推出，由該學系和理大醫療及社會科學院的其他學系及學院的教員授課，讓學員充分了解由心肺疾病患者出現病徵到跨學科醫護團隊進行診治和疾病管理的整個過程。



Cardiopulmonary diseases are disorders that affect the heart, blood vessels and lungs. They comprise cardiac or heart diseases, cardiovascular diseases that involve blocked blood vessels, and chronic lung diseases.

Now, members of the public and students and professionals in different medical, health and human services fields can learn about the causes, signs and symptoms of common cardiopulmonary diseases through a new Massive Open Online Course (MOOC) titled "Interdisciplinary Management of Cardiopulmonary Health and Disease" on the edX platform. They will also learn about the psychosocial needs of patients with cardiopulmonary diseases and their caregivers, interpret the results of medical examinations for cardiopulmonary diseases, and understand the different but integrated roles of different healthcare professionals in cardiopulmonary disease management. Launched by PolyU's Department of Rehabilitation Sciences (RS) and featuring instructors from RS and other Departments within FHSS, the course tracks the journey of a patient with cardiopulmonary disease from the appearance of symptoms to their diagnosis, assessment and holistic management by an interdisciplinary team of healthcare professionals.



有關這項新課程的資料，請瀏覽

For more information on RS's new MOOC, please visit

<https://www.edx.org/course/interdisciplinary-management-of-cardiopulmonary-health-and-disease>

全新網上課程介紹視覺功能和眼睛保健

New Online Course on How the Eyes and Vision Work And How to Protect Them



五種感官中，視覺是大多數人在日常生活最依賴的感官。理大眼科視光學院最近在edX平台開辦名為「我們如何看世界：視覺功能和眼睛健康」的大型開放式網絡課程，講解視覺功能和眼睛保健。課程透過多媒體和互動活動及評估，讓學員認識影像構成、視覺深度感知和色覺，以及了解眼睛和視力如何受到近視、白內障、青光眼和黃斑點退化等常見眼疾的影響，以及如何保護眼睛和預防眼疾。申請獲發課程證書的學員可以使用3D眼睛模型和虛擬實驗室，以及參與網上活動，更可獲得課程導師就個別作業給予詳細的意見。



Of the five basic senses, the majority of people rely on using their sight the most in order to function in everyday life. Now, everyone can learn about how the eyes and vision work and how to protect them through a new Massive Open Online Course (MOOC) called "How We See the World: Visual Function and Eye Health", which was recently launched by PolyU's School of Optometry on the edX platform. Through multimedia and interactive activities and assessments, learners will find out how the eyes capture and process images, see details at different distances, see in three dimensions, and see colour. They will also learn how the eyes and vision are affected by common eye problems such as refractive errors like myopia or short-sightedness, cataracts, glaucoma and macular degeneration, and how they can protect their eyes from preventable vision problems. Learners who pursue a verified certificate for the MOOC will also gain access to a complete 3D eye model, virtual labs, live sessions, and detailed feedback by the MOOC's instructors on their assignments.



有關這項新課程的資料，請瀏覽

For more details on SO's new MOOC, please go to:

<https://www.edx.org/course/how-we-see-the-world-visual-function-and-eye-health>

石丹理教授 Prof. Daniel SHEK Tan-lei

應用社會科學系講座教授
利豐服務領導教育教授
協理副校長（本科生課程）
Chair Professor of Applied Social Sciences,
Department of Applied Social Sciences
Li & Fung Professor in Service Leadership Education
Associate Vice President (Undergraduate Programme), PolyU



任命 Appointments

- 香港特區政府政策創新與統籌辦事處公共政策研究資助計劃及策略性公共政策研究資助計劃評審委員會主席
Chairman, Assessment Panel of the Public Policy Research Funding Scheme and the Strategic Public Policy Research Funding Scheme, Policy Innovation and Co-ordination Office, HKSAR Government
- 香港特區政府大學教育資助委員會研究資助局委員
Member, Research Grants Council of the University Grants Committee, HKSAR Government

黃金月教授 Prof. Frances WONG Kam-yuet

護理學院講座教授
醫療及社會科學院副院長
Chair Professor of Advanced Nursing Practice,
School of Nursing
Associate Dean, FHSS



任命 Appointments

- 香港研究資助局「本地自資學位界別競逐研究資助計劃」評審委員會委員（生物學及醫學）
Member (Biology and Medicine), Assessment Panel for Competitive Research Funding Schemes for the Local Self-Financing Degree Sector under Research Grants Council
- 國家自然科學基金委員會及研究資助局聯合科研資助基金本地遴選委員會委員（生物學及醫學）
Member, Local Selection Committee, National Natural Science Foundation of China (NSFC)/ Research Grants Council (RGC) Joint Research Scheme, Biology and Medicine Panel

陳曉華教授 Prof. Sylvia CHEN Xiaohua

應用社會科學系教授
醫療及社會科學院副院長
Professor, Department of Applied Social Sciences
Associate Dean, FHSS



任命 Appointments

- 亞洲社會心理學會會長
President, Asian Association of Social Psychology
- 國際跨文化心理學會《跨文化心理學期刊》總編輯
Editor-in-Chief, *Journal of Cross-Cultural Psychology*
- 香港心理學會院士
Fellow, Hong Kong Psychological Society

林小燕教授 Prof. Carly LAM Siu-yin

眼科視光學院教授
Professor, School of Optometry



任命 Appointments

- 亞太眼科視光學會主席
President, Asia Pacific Council of Optometry



醫療及社會科學院學者獲任利民青年學者 FHSS Academic Honoured as Limin Endowed Young Scholar

理大今年委任兩位學者為「勵學青年學者冠名計劃」下的「利民青年學者」，其中一位是醫療科技及資訊學系副教授蕭傑恒博士。蕭博士獲委任由理大科技顧問有限公司 (PTec) 捐贈設立的利民（醫療化驗科學）青年學者席，5年任期內每年將獲得30萬港元以支持他的工作，特別在研究和知識轉移領域方面。

Dr Gilman Siu Kit-hang, Associate Professor at PolyU's Department of Health Technology and Informatics, is one of only two recipients of new Limin Endowed Young Scholar awards established with the generous support of PolyU Technology and Consultancy Co. Ltd (PTeC) for PolyU's competitive Endowed Young Scholar Scheme. Dr Siu will hold the title of Limin Endowed Young Scholar in Medical Laboratory Science for a term of five years and receive HK\$300,000 over each of these years to support his work, especially in research and knowledge transfer.



研資局博士後獎學金計劃 2021/22 Awardee of RGC Postdoctoral Fellowship Scheme 2021/22 Joins FHSS

麥智韜博士是香港研究資助局博士後獎學金計劃 2021/22 的六名獲獎者之一，他將加入理大並在康復治療科學系副系主任伍尚美教授的指導下，從事一項名為「調查視覺搜尋策略和注意力在有跌倒風險的老年人精神運動步態重新教育過程中的角色：對跌倒康復的影響」的研究，為期36個月。研資局博士後獎學金計劃旨在鼓勵具潛質的博士畢業生在香港提升研究技巧和發展研究事業。

One of six awardees of Hong Kong's Research Grants Council Postdoctoral Fellowship Scheme 2021/22 who will be joining PolyU is Dr Toby Mak Cho-to. He will be working on a project titled "Investigating visual search strategies and the role of attentional focus during psychomotor gait re-education in older adults at risk of falling: implication for fall rehabilitation" for a period of 36 months under the supervision of Prof. Shamay Ng Sheung-mei, Associate Head of PolyU's Department of Rehabilitation Sciences. The scheme aims to encourage promising doctoral graduates to further their research skills and career in research in Hong Kong.

馮康泓
Andy Fung Hong-wang

應用社會科學系
Department of
Applied Social Sciences



理大應用社會科學系博士生馮康泓，是2020/21年度尤德爵士紀念基金殘疾學生研究生獎學金的唯一獲獎者，亦是連續第二年得獎。馮康泓患有先天性重症肌無力症，他獲頒的50,000港元獎學金，將資助他從事在心理創傷、精神健康、病理性解離、社會工作實踐，以及護理和社區照顧中的資訊和通訊科技方面的研究。

Andy Fung Hong-wang, a PhD student at PolyU's Department of Applied Social Sciences, is the sole recipient of the Sir Edward Youde Memorial Fellowship for Disabled Students in 2020/21, making this his second consecutive year to receive the competitive award. Andy, who has a genetic muscular disease, received a grant of HK\$50,000 from the fellowship to support his research in psychological trauma, mental health, pathological dissociation, social work practice, and information and communications technology in health and social care.

陳俊璋
Chan Chun-wai

醫療科技及資訊學系
Department of
Health Technology and
Informatics



理大醫療科技及資訊學系三年級學生陳俊璋憑著傑出的學術成就、積極參與課外活動和社會服務、以及卓越的領導才能和個人素質，獲頒2020/21年度榮休校長潘宗光教授獎學金，獲得20,000港元的獎學金。這項獎學金計劃的對象是理大全日制本科課程的翌年畢業生，由各學院每年提名一位學生競逐。

Chan Chun-wai, a Year 3 undergraduate at PolyU's Department of Health Technology and Informatics, has been awarded a President Emeritus Professor Poon Chung-kwong Scholarship 2020/21 in recognition of his outstanding academic achievements, active involvement in co-curricular activities and community service, strong leadership ability and good personal qualities. The scholarship comes with a grant of HK\$20,000. The competitive scholarship scheme is open to PolyU full-time penultimate-year undergraduates, with each Faculty or Independent School allowed to nominate only one applicant for consideration.

張冰冰
Bella Zhang Bing-bing

康復治療科學系
Department of
Rehabilitation Sciences



理大康復治療科學系博士生張冰冰獲得由奧地利聯邦教育、科學和研究部資助的歐亞太平洋大學聯盟頒發 Ernst Mach 獎學金。這項獎學金計劃的對象是歐亞太平洋大學聯盟在中國和蒙古的夥伴大學的博士生。在該獎學金的支持下，張同學將會到維也納醫科大學精神病學與心理治療學系的神經影像學實驗室進行為期6個月的研究。

Bella Zhang Bing-bing, a PhD student at PolyU's Department of Rehabilitation Sciences, has been awarded an Ernst Mach Grant-Eurasia-Pacific Uninet, which is financed by Austria's Federal Ministry of Education, Science and Research. The competitive scholarship scheme is open to doctoral students from Eurasia-Pacific Uninet's partner universities in China and Mongolia. The scholarship will enable Bella to spend six months to conduct research at the Medical University of Vienna's Neuroimaging Labs in its Department of Psychiatry and Psychotherapy.

周旨菁
Erina Chow Tsz-ching

康復治療科學系
Department of
Rehabilitation Sciences



今年的2021年度創明天獎學金有15位得獎者，而理大康復治療科學系職業治療學課程的三年級學生周旨菁，是理大唯一得獎學生。這項計劃由「大灣區共同家園青年公益基金」設立，得獎者將獲頒50,000港元獎學金，旨在表揚及鼓勵學術表現優秀、致力多元發展和積極參與社會服務的本地大學生。得獎者及其他200位申請者將獲安排於大灣區內的大型企業和著名大學進行交流活動，以了解大灣區的發展和機遇。

Erina Chow Tsz-ching, a Year 3 occupational therapy undergraduate at PolyU's Department of Rehabilitation Sciences, is among the 15 winners of an inaugural For Our Future Scholarship in 2021 and accompanying grant of HK\$50,000. She is the only awardee from PolyU. The scholarship scheme was launched by the Greater Bay Area Homeland Youth Community Foundation to recognise outstanding local tertiary education students for their excellent academic performance with diverse development and a strong commitment to community service. The awardees and 200 other applicants selected from the scheme will go on experiential tours of large corporations and well-known universities in the Greater Bay Area to gain a better understanding of the region and its opportunities.

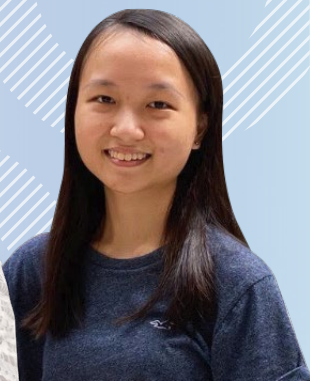
游家敏
Carmen Yau Ka-man

應用社會科學系
Department of
Applied Social Sciences



劉穎翹
Winkie Lau Wing-kiu

應用社會科學系
Department of
Applied Social Sciences



大學婦女香港協會在今年8月14日於網上舉行2020年度獎學金頒獎典禮，理大應用社會科學系博士生游家敏獲頒發研究生獎學金，以表揚她的優質原創研究及積極投入社會服務。游家敏患有脊髓肌肉萎縮症，一直致力於香港倡導殘疾人士的平等權利和獨立生活，特別關注常被忽視的性別和性權利範疇。她現為香港女障協進會主席。此外，就讀同學系的社會工作三年級學生劉穎翹亦獲頒本科生獎學金，以表揚她卓越的學術表現及參與不同的社會服務。

At the online 2020 Hong Kong Association of University Women Scholarship Presentation Ceremony on 14 August 2021, Carmen Yau Ka-man, a PhD student at PolyU's Department of Applied Social Sciences (APSS), was awarded a Postgraduate Scholarship in recognition of her high-quality original research and deep involvement in community service. Carmen, who has spinal muscular atrophy, advocates for equal rights and independent living for disabled people in Hong Kong, especially the neglected area of sexuality and sex rights. She is also Chairperson of the Association of Women with Disabilities Hong Kong. In addition, Winkie Lau Wing-kiu, a Year 3 social work student at APSS, won an Undergraduate Scholarship for her excellent academic achievements and participation in community service.

張彥芝
Meryl Cheung Yin-chi

康復治療科學系
Department of
Rehabilitation Sciences



吳哲睿
Jeffrey Ng Chit-yui

康復治療科學系
Department of
Rehabilitation Sciences



理大康復治療科學系的兩名三年級本科生，榮獲2021年創新科技獎學金。就讀職業治療學課程的張彥芝以及物理治療學課程的吳哲睿，分別均獲頒15萬港元的獎學金，以資助他們參與海外或內地暫讀計劃、師友指導計劃、服務項目計劃，以及本地實習計劃，藉此培養他們發展創科事業的興趣。該獎學金計劃由香港青年協會主辦，並由創新科技署和香港上海匯豐銀行支持及贊助。

Two outstanding Year 3 undergraduates at PolyU's Department of Rehabilitation Sciences (RS) have been awarded Innovation and Technology Scholarships in 2021. The awardees, Meryl Cheung Yin-chi of RS's occupational therapy programme and Jeffrey Ng Chit-yui of RS's physiotherapy programme, each received a scholarship worth up to HK\$150,000 to take part in elite training opportunities, such as attachment programmes overseas or in Mainland China, mentorship programmes, service projects and local internships, to help develop their interest in a career in innovation and technology in Hong Kong. The award scheme is organised by the Hong Kong Federation of Youth Groups and jointly supported and sponsored by Hong Kong's Innovation and Technology Commission and Hongkong and Shanghai Banking Corp. Ltd.

黃筠陶
Toto Wong Kwan-to

眼科視光學院
School of Optometry



吳宇軒
Michael Ng Yu-hin

康復治療科學系
Department of
Rehabilitation Sciences



過去一年，不少大型體育活動因新冠疫情而延遲舉行或取消，但香港的運動員仍然維持訓練並儘可能參與國際賽事。理大眼科視光學院學生黃筠陶為香港泳隊成員，代表香港出戰本屆東京奧運會的女子4x100混合泳接力賽。黃筠陶亦於2019年國際泳聯游泳世界杯新加坡站的女子200米背泳賽中奪得銀牌。此外，康復治療科學系物理治療學學生吳宇軒，為香港男子200米蛙泳紀錄保持者，他於今年7月11日舉行的香港短池游泳計時賽中奪冠且創下新的香港紀錄，並將代表香港參加今年12月在阿布扎比舉行的2021年「第15屆國際泳聯世界游泳錦標賽（25米）」。

Although most major sporting events were postponed or cancelled over the past year because of the COVID-19 pandemic, Hong Kong's athletes, including those studying at PolyU, were still training and competing where possible on the world stage. Toto Wong Kwan-to, a student at PolyU's School of Optometry, was a member of Hong Kong's swimming team for the women's 4x100m medley relay in the 2020 Tokyo Olympics this summer. She had also clinched an individual silver medal in the women's 200m backstroke in the Singapore leg of the FINA Swimming World Cup 2019. Meanwhile, Michael Ng Yu-hin, a physiotherapy student at PolyU's Department of Rehabilitation Sciences, won and broke his own Hong Kong record in the short course men's 200m breaststroke at the Hong Kong Short Course Time Trial I on 11 July 2021. He will represent Hong Kong in the 15th FINA World Swimming Championships (25m) 2021 in Abu Dhabi this December.

理大學生大使 2021/22 PolyU Student Ambassadors 2021/22

六位醫療及社會科學院的本科生獲理大教務處委任為2021/22學年的理大學生大使。我們的學生大使歡迎與各中學生或對理大課程有興趣的人士傾談，提供校園生活資訊及分享學習經驗，從而裝備他們迎向理大生活的種種挑戰。

Six FHSS undergraduates are among the new batch of PolyU Student Ambassadors appointed by the University's Academic Registry for this new academic year. Secondary school students and other interested parties are more than welcome to chat with them at PolyU events to learn about studying in FHSS's constituent Departments and Schools and student life.



學術成績 | ACADEMIC QUALIFICATIONS

2021年度新生平均入學成績 Average HKDSE Scores for FHSS Programmes in 2021

學士學位課程 Degree Programme	入學成績計算方法 Admission Score Calculation Mechanism	最低分數 Minimum Score	最高分數 Maximum Score	平均入學成績 Average HKDSE Score Point Total
應用社會科學系 Department of Applied Social Sciences				
社會政策及社會創業 Social Policy and Social Entrepreneurship	4 Core + Best 2 Elective Subjects	18	25.5	22
社會工作 Social Work	4 Core + Best 2 Elective Subjects	26	39	28
醫療科技及資訊學系 Department of Health Technology and Informatics				
醫療化驗科學 Medical Laboratory Science	Any Best 6 Subjects	32	48	36.3
放射學 Radiography	Any Best 6 Subjects	31.5	46.5	38.4
康復治療科學系 Department of Rehabilitation Sciences				
職業治療學 Occupational Therapy	Any Best 6 Subjects	33	45	37.8
物理治療學 Physiotherapy	Any Best 6 Subjects	36	48	39.9
護理學院 School of Nursing				
精神健康護理學 Mental Health Nursing	4 Core + Best 2 Elective Subjects	25	33	27
護理學 Nursing	4 Core + Best 2 Elective Subjects	27.5	36	29.5
眼科視光學院 School of Optometry				
眼科視光學 Optometry	Any Best 6 Subjects	31.5	45	35.3

以上分數不包括非學術表現計劃之收生成績，只供參考之用。
The above scores exclude Non-Academic Achievement Scheme offers, and are for reference only.

香港文憑考試分數計算 Calculation of HKDSE Scores

5** - 8.5分points	5* - 7分points	5 - 5.5分points	4 - 4分points
3 - 3分points	2 - 2分points	1 - 1分point	Unclassified - 0分points



查詢香港中學文憑考試學生的入學成績計算方法，請瀏覽
For admission-score calculations for HKDSE applicants, please visit
<http://www.polyu.edu.hk/study>