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Welcome to the third issue of the FAST Newsletter!

The commencement of the summer break marks another peak season for our students to participate in exchange/ internship programmes. In 2018, FAST is pleased to have solicited exchange opportunities with several internationally renowned universities, including Harvard University (USA), McGill University (Canada), Osaka University and Tokyo City University (both Japan). To capitalize on the rising importance of China, we have also arranged internships for our students at the Shenzhen and Guangdong Entry-Exit Inspection and Quarantine Bureaus, and at Lane Crawford China. I wish our students fruitful visits, and hope they will benefit from the real-life workplace experience and international exposure offered by these valuable opportunities.

Besides emphasizing application-oriented teaching, FAST has long been a proponent of applied research. Through close collaborations with industry, our researchers have invented innovative technologies of immediate benefit to society. This summer, our Institute of Textiles and Clothing (ITC) joins forces with Alibaba to host two world-first events: Artificial Intelligence in Fashion & Textiles (AIFT) Conference and FashionAI Global Challenge. The AIFT Conference, to be

歡迎閱讀應用科學及紡織學院第三期學院通訊!

暑假的開始,標誌著我們的學生參加交換/實習項目的又一個 高峰期。2018年,應用科學及紡織學院很榮幸和多所國際知 名大學合作,讓學生能夠在包括哈佛大學(美國)、麥吉爾大 學(加拿大)、大阪大學和東京都市大學(日本)在內的知名 大學交流。中國在全球發展上的重要性日漸提升,乘著這趨 勢,我們亦為學生安排了到深圳和廣東出入境檢驗檢疫局以及 中國連卡佛實習的機會。希望他們能夠從中有所收穫,也希望 這些寶貴機會提供的職場體驗和國際薰陶,能夠使他們受益。

除強調以應用為導向的教學模式外,應用科學及紡織學院一直 倡導應用研究。透過與業界的密切合作,我們的研究人員專注 研發即時造福社會的創新技術。今夏,我們的紡織及服裝學系 (ITC)更與阿里巴巴攜手主辦了兩場全球首創的盛事:人工智 能與時尚紡織大會(AIFT)和FashionAI全球挑戰賽。AIFT大會 將於2018年7月3日至6日在理大舉行,屆時,時尚界應用 人工智能最前沿的研究人員、工程師和從業者將齊聚一堂;與 held on 3-6 July 2018 at PolyU, will bring together researchers, engineers and practitioners at the cutting edge of applied AI in the fashion industry; meanwhile, FashionAI Challenge invites worldwide AI researchers and developers to solve two of the most pressing issues in the application of AI in fashion. The winner will receive a cash prize of RMB\$1 million. For more information, please visit

https://www.polyu.edu.hk/itc/aift2018/index.html.

In view of the changing structure of Hong Kong's economy, which spans manufacturing to services, and the diverse range of careers followed by our ITC graduates, we are pleased to announce that the Chinese title of ITC has been changed to 紡織及服裝學系 to better reflect the portfolio of the Institute. We will continue our efforts in nurturing the very best graduates to meet the changing needs of society.

Thank you for reading and have a happy summer!

Prof. Wong Wing-tak, Chair Professor of Chemical Technology Dean, FAST

此同時·FashionAI挑戰賽亦邀請全球人工智能研究人員和開發人員解決時尚界人工智能應用中最迫切的兩大難題。優勝者將獲得人民幣100萬元的現金獎勵。詳情請瀏覽 https://www.polyu.edu.hk/itc/aift2018/index.html。

香港經濟結構橫跨製造業和服務業,加之ITC畢業生的職業取 向呈現多元化,有鑒於此,我們欣然宣佈,ITC的中文名稱已 變更為**紡織及服裝學系**,更能體現學系的教育範疇。我們會 繼續努力培養出最優秀的畢業生,以滿足社會不斷變化的需 要。

謝謝閱讀,並祝您夏日愉快!

應用科學及紡織學院院長 化學科技講座教授 黃永德教授

Leading the Charge and Lighting the Way

– Interview with **Prof. Raymond Wong**, Clarea Au Professor in Energy, Chair Professor of Chemical Technology, Department of Applied Biology and Chemical Technology

Global energy consumption is depleting non-renewable fossil fuels at a staggering rate. A world leader in energy conservation and production, **Prof. Raymond Wong** recognizes that mankind's life quality depends on the development of renewable energy sources. As such, he has dedicated his career to advancing technologies in energy conversion.

As the Chair Professor of Chemical Technology in the Department of Applied Biology and Chemical Technology, Prof. Wong has the background and extensive experience needed to translate light into electricity and electricity into light, contributing to the sustainability of human life on earth.

Prof. Wong remarked that one of his main focuses is to develop molecular materials that can be used in fabricating organic



引領行業,照亮前程

— **黃維揚教授**專訪 歐雪明能源教授 應用生物及化學科技學系化學科技講座教授

由於全球能源的消耗,非再生化石燃料正以驚人的速度走向枯竭。作為能源保護和生產方面的世界領導者,黃維揚教授認為,人類的生活質素有賴於可再生能源的發展。正因如此, 他把精力都奉獻給了推進能源轉換技術事業上。

黃教授是應用生物及化學科技學系的講座教授,在光電的相互 轉化方面有著深厚的造詣和豐富經驗,為人類在地球上生活的 持續發展作出了貢獻。

黃教授認為·他的一個主要工作重點是開發可用於製造有機太陽能電池和有機發光二極管的分子材料。這些新發展都是相輔

solar cells and organic light-emitting devices (OLEDs). These developments are complimentary in which solar devices produce energy and light-emitting devices save energy.

Prof. Wong has created low-cost OLED light sources, which are more flexible than inorganic LED light sources. For example, they can support a curved screen, while LEDs normally only support flat screens. Unlike liquid crystal displays (LCDs), OLEDs can be printed onto a surface using an inkjet or even screen printing technology and are also more energy-efficient and are generally lower in cost than LCDs. Much of the world's energy is consumed by lighting needs. The possibility of exploiting white-light OLEDs as an environmentally-friendly, energy-saving and low-cost candidate for next-generation illumination sources represents another important current topic. Prof. Wong's innovation was at least two-fold. He introduced metal elements, which significantly increased efficiency due to the phosphorescence given by the metals. He also introduced a two-colour white light system, as opposed to the existing three-colour system, which simplified the production of the white-light emitting device.

Prof. Wong has also developed metal-containing polymers as a precursor to make magnetic nanomaterials. These can be useful for applications in magnetic data storage, catalysis and energy storage.

In honour of Prof. Wong's leadership in his field and dedication to promoting the importance of renewable energy to mankind, he was awarded the Clarea Au Endowed Professorship in Energy by PolyU.

相成的,其中使用太陽能裝置可生產能源,而使用發光裝置能 節省能源。

黃教授創造的低成本有機LED發光體(OLED)較現有的無機 LED發光體更為靈活。舉例而言,前者能支援曲面屏幕,而後 者只能支援平板屏幕。與液晶顯示器(LCD)不同,OLED可 以使用噴墨甚至絲網印刷技術印刷到表面上,比LCD更節能, 而且成本更低。照明需求消耗了世界上不少部分的能源。開發 白光OLED作為下一代照明光源既環保,也節能和降低成本, 是當前另一個重要的研究議題。黃教授實現了兩個方面的創 新。他在其中加入金屬元素,藉助金屬發出的磷光使效能得到 大幅提升。另外還推出了一個與現有的三色系統相對的雙色白 光系統,簡化了白光發光二極管裝置的生產。

黃教授還研發出了含金屬的聚合物,作為製造磁性納米材料的 前體。這些對磁性數據儲存、催化及能源儲存的應用非常有 用。為向黃教授在領域內起到的帶頭作用及對推廣可再生能源 對人類重要性的奉獻致敬,香港理工大學特向他授予了歐雪明 能源教授席。

Bringing Out the Beauty of Mathematics

Throughout history, scientists have marvelled at the beauty of mathematics. Words like "elegance" and "simplicity" have often described mathematical breakthroughs. **Dr Zhao Xingqiu** discovered this beauty as a research scholar at Carnegie Mellon University, where she also found a passion for formulating science and industry needs as mathematical and statistical problems. "I realized that I could make beautiful solutions to predict and resolve real-world challenges," explained Dr Zhao, Associate Professor in the Department of Applied Mathematics.

Today, Dr Zhao is one of the top researchers in her field. She makes world-leading advances in longitudinal and survivalrate data analysis, studying applications, extracting patterns and building models that not only provide more powerful test procedures for complex statistical data but also uncover the genetic bases of diseases. As but one example of her groundbreaking work, she designed a generalized log-rank test for



釋放數學的魅力

— *趙興球博士*專訪 應用數學系副教授

縱觀歷史,數學的魅力一直令科學家折服。「巧妙」、「簡 單易明」等字眼,通常都用來形容在數學上取得的突破。 趙興球博士於卡內基梅隆大學擔任研究學者時,便發現了 這種魅力的存在,她還發現,她對以數學和統計問題表達科學 和行業需要情有獨鍾。趙博士(應用數學系副教授)稱:「我 意識到,我可以制定完美的解決方案來預測和解決現實世界的 難題。」

如今,趙博士已成為領域內頂尖研究員之一。她在縱向和存活 率數據分析、研究應用、提取模式及建立模型方面取得了世界 領先的進展,不僅可為複雜的統計數據提供更有效的檢驗程 序,還能揭露疾病的基因基礎。

以其中一項突破性工作為例,她針對區間刪失數據設計出了一種

- Interview with Dr Zhao Xingqiu,

Associate Professor, Department of Applied Mathematics

interval-censored failure time data. This test was built in the prestigious Statistical Analysis System (SAS). "SAS is commonly used in industry, and our development added efficiency to existing tests," said Dr Zhao.

Another example is her development of a new procedure to construct asymptotical confidence intervals and rejection regions of hypothesis testing for monotone functions. The theoretical results guarantee that the new test has a probability of type II errors tending to 0 exponentially. This result and procedure is the first of its kind and is beneficial across industries and research fields.

Dr Zhao's research also yields new methods for estimating the relationship between survival rates, and genetic and genomic data in a clinical setting. With the development of precision medicine, the correct identification of subgroups of a heterogeneous population is critical. Dr Zhao has developed new models for subgroup analysis, facilitating more efficient identification of grouping structures, selection of covariates and estimation of subgroup-specific treatments with high probability in sparse high-dimensional settings. This advances the medical understanding of the relationship between risk factors and phenotypes and supports the development of new approaches to prevent, diagnose and treat complex diseases.

The nature of Dr Zhao's work is collaboration. And it is in collaboration where she brings out the beauty of mathematics, using her expertise in applied statistics to solve real-world challenges and improve public health and scientific knowledge around the world.

廣義時序檢驗法。這種檢驗法被內建於統計分析系統(SAS)。 趙博士稱:「業界普遍採用SAS,我們的最新進展提高了現有 檢驗法的效率。」

另一個例子是由她制定用以構建單調函數假設檢驗漸進置信 區間和拒絕域的新程序。其理論結果保證,新檢驗法出現II類 錯誤的可能性以指數方式趨近於0。這樣的結果和程序尚屬首 例,並對各行各業和研究領域大有裨益。

趙博士的研究也提出了一種新方法,用於評估臨床背景下存活 率與基因和基因組數據之間的關係。隨著精準醫療的發展,正 確識別異質性族群的亞群變得非常重要。而由趙博士制定的新 亞群分析模型,則可提高識別分群結構、選擇協變量及評估稀 疏高維背景下可能性較高的亞群專用治療的效率。這可促進對 風險因素與顯型之間關係的醫學理解,並有助制定新的策略來 預防、診斷及治療複雜的疾病。

趙博士的工作是合作性的。而且正是她在這種合作中運用在應 用統計學方面的專長解決現實難題,以改善全球公眾健康和科 學知識為目標,彰顯數學和統計之美妙。

Innovating our World

The world needs visionaries — people who are innovators in their fields and apply their expertise to meeting scientific, social and industrial demands. **Prof. Yan Feng**, Professor in the Department of Applied Physics, does just that, advancing innovative technologies through his work with solar cells and bioelectronics.

Prof. Yan develops innovative forms and functions of solar devices, creating organic semiconductors and organic/ inorganic hybrid materials that make lighter-weight and easier-to-fabricate solar cells.

His creative use of graphene and other nanomaterials together with organic semiconductor rendered a model with higher efficiency than typical organic solar cells. Then, he created a hybrid solar cell model with even greater efficiency – 21% – comparable with silicon solar cells, the materials of which can be prepared by solution methods and the fabrication of which can be achieved by novel printing techniques.

"These types of flexible solar cells can be coloured or transparent and used to generate electricity on wearable, portable and outdoor systems, such as clothing, military equipment and buildings," Prof. Yan explained.

Prof. Yan is also developing highly sensitive, solar-powered bioelectronic devices that are wearable and can monitor health conditions, such as detecting protein cancer biomarkers and controlling a drug release by mobile phone. Currently, he is collaborating with another FAST Department, the Institute of Textiles and Clothing, to integrate a solar-powered biosensor

革新世界

— **嚴鋒教授**專訪 應用物理學系教授

世界需要幻想家——他們都是各自領域的革新者·運用自身專長 滿足科學、社會及工業需求。應用物理學系的嚴鋒教授, 便是這樣一個人,他透過在太陽能電池和生物電子學方面的工 作來促進創新科技的發展。

嚴教授開發出了太陽能裝置的創新形式和功能,創造出有機半 導體和有機/無機混合材料,使太陽能電池變得更輕、更容易 生產。

他將石墨烯及其他納米材料創造性地應用到有機半導體中,從 而做出效能比傳統有機太陽能電池更高的太陽能電池。之後, 他又研究出有機/無機混合型太陽能電池,效率甚至與太陽能 矽電池更高,達到21%,而且這種電池可透過溶液法製備材 料,並透過新列印技術進行生產。 – Interview with **Prof. Yan Feng**, Professor, Department of Applied Physics



into a piece of fabric that can monitor glucose levels in body fluids, offering a non-invasive and life-changing solution for people living with diabetes.

Recognized as a pioneer in his field, Prof. Yan has published many papers, attracted substantial research funding, collaborated with industry and been specially invited to write review papers for some prestigious high-impact journals, such as Advanced Materials and Chemical Society Review.

Prof. Yan's innovations have huge consumer and commercial benefits worldwide. "As the next stage, we have applied for funding to conduct clinical trials and assessed mass production as well as sought patents to commercialize our technologies," said Prof. Yan.

Even more importantly, he is showing us how innovative thinking can change the world.

嚴教授表示:「這類柔性太陽能電池可以是有色或透明的,並 用在穿戴、便攜及戶外系統上發電,如服裝、軍事裝備和建築 物等。」

另外,嚴教授正在研發可穿戴並可監測健康狀況(如檢測癌症 蛋白生物標記物及使用手機控制藥物釋放)的高靈敏度、太陽 能驅動生物電子裝置。目前,他正與應用科學及紡織學院的紡 織及服裝學系合作,將太陽能驅動的生物感應器整合到織物面 料中,使之可監測體液中的葡萄糖水平,從而為糖尿病患者提 供非侵入性解決方案,改善他們的生活。

作為領域內公認的先驅者,嚴教授發表了多篇論文,吸引了大 量研究經費,還與業界攜手合作,甚至獲特別邀請為高影響力 雜誌如《先進材料》、《英國化學會評論》等撰寫綜述文章。

嚴教授的創新給環球的消費者和商界帶來了莫大的利益。他表示:「下一階段的工作是申請經費開展臨床試驗及評估批量生 產,及尋求技術商業化的專利保護。」

更重要的是,他向我們展現了如何以創新思維改變世界。

Science by Design

Scientific discipline and creative design may appear to be disparate areas of expertise. But by fusing research with art at the Institute of Textiles and Clothing, **Dr Kinor Jiang** has become one of the global leaders in the science and style of textiles, combining technicality with creativity to develop functional and decorative garments and fabrics.

Dr Jiang is passionate in integrating science and arts. He creates innovative effects using physical and chemical treatment technologies. Interested in the development of metallized textiles and with more than HKD17 million of research funding and support from government and industry, he has developed coated metallic textiles to create distingué taste and highly esthetics and have performance materials



設計科學

— 姜綬祥博士專訪 紡織及服裝學系副教授

科學學科和創意設計看似是完全不同的專業領域。但透過在紡 織及服裝學系將研究與藝術相結合·**姜綬祥博士**已成為紡 織科學和設計的全球領袖人物之一·並結合技術和設計研發出 裝飾及功能並重的服裝和面料。

姜博士熱衷於科學和藝術的結合,利用物理和化學處理技術創造出創新性的效果。本著對研發金屬織物的興趣,在政府和業界1,700多萬港元的研究經費支持下,由他研發出的金屬鍍覆織物,不僅實現了高品質的外觀,還具有防水及防輻射的性



- Interview with Dr Kinor Jiang,

Associate Professor, Institute of Textiles and Clothing

that can be water repellent and block radiation. He is also a leader in the development of a new anhydrous coloration process that does not use water and is more eco-friendly. These technological breakthroughs have enormous potential for commercialization.

Dr Jiang has published extensively, having written more than 100 academic papers and books. His works and art projects have been exhibited worldwide and are part of permanent collections of several prestigious museums, including the Victoria and Albert Museum, Fine Arts Museum of San Francisco and China National Silk Museum. He is listed in Design Power 100, China in 2017. He also contributes to textile and fashion curations, organizing and curating more than 20 international design exhibitions around the world.

He is an advisor of the Fashion Committee in the China National Silk Museum, a vice chair of International Fashion Art Network, a member of the China Fiber Art Committee and the China Arts & Crafts Association, a fellow of the Royal Society of Arts, and a visiting research fellow of the Academy of Arts and Design at Tsinghua University.

He views his strong cooperative work with industry and academia as an extension of the collaborative environment supported by PolyU. "Research is not only for the lab. We need to make results that are significant for industry deployment. I truly appreciate the supports provided by PolyU so that we are able to contribute to bettering the global community," explained Dr Jiang. And he has successfully advanced the science of design with innovative technology.

能。他還是開發真空無水着色技術的首倡者,該技術不用水, 更環保,具有巨大的商業化潛力。

姜博士的著述甚廣,著有學術論文和著作百餘篇。他的作品和 設計項目在世界各地均有展出過,並被維多利亞和阿爾伯特博 物館、三藩市美術館、中國絲綢博物館等多所著名博物館納入 永久收藏。他被列入2017年度100位中國設計權利榜。他還 為紡織和時尚策展作出了貢獻,所組織及策展的國際設計展覽 20餘場。

姜博士是中國絲綢博物館時尚專業諮詢委員會顧問、國際時尚 藝術組織副主席、中國纖維藝術專業委員會和中國工藝美術協 會成員、皇家藝術學會院士、清華大學美術學院客座研究員。

姜博士認為自己與業界和學術界的緊密合作,是理大支持協作 環境的延伸。他指出:「研究不僅是實驗室中的學術工作, 研究成果還要對引領行業向前發展。我由衷感謝理大給予的支 持,讓我們能夠為社會作出貢獻。」姜綬祥博士的應用創新技 術成功地推進了設計科學的發展。

FAST Student Awards Ceremony 2017/18

On 12 April 2018, FAST organized the first Student Awards Ceremony 2017/18 to honour students' academic pursuits and to showcase internship opportunities. Over 100 awardees of the Dean's Honours List 2016/17, FAST Entry Scholarships and FAST Sponsorships for Internship Enhancement Programme participated in the ceremony at PolyU's Chiang Chen Studio Theatre.

FAST recognizes the importance of practical training and connects classroom theory with workplace application. To encourage students' engagement, the Faculty has introduced the Sponsorship for Internship Enhancement Programme this year, which offers students subsidies up to HKD5,000 and HKD10,000 for their participation in local and offshore internship programmes respectively. In 2016/17, sponsorships of over HKD430,000 were offered to 54 students from the four departments. During the ceremony, the audience enjoyed an amusing video created by the students to share their positive experiences of the internship programmes.

To honour the hard work of those freshmen who have performed outstandingly in public examinations, the Faculty has also set up the Entry Scholarships. Applicants who meet the requirements will be awarded scholarships with a maximum amount of HKD35,000. This year, 17 students are eligible for this prestigious prize.

Congratulations again to all awardees!

應用科學及紡織學院 (FAST) 傑出學生頒獎典禮 2017/18



2018年4月12日,應用科學及紡織學院舉辦 了第一屆(2017/18學年)傑出學生頒獎典 禮,藉以表彰學生對學術的正面追求態度。 當天,共有100多位榮列2016/17院長嘉許 名單、學院入學獎學金及學院實習資助贊助 計劃名單的傑出學生出席於香港理工大學蔣 震劇院舉行的頒獎典禮。

應用科學及紡織學院深明實踐培訓以及將課 堂理論與實際工作應用聯繫起來的重要性。 為鼓勵學生參與實習工作,學院今年推出了 「學院實習資助贊助計劃」,分別為參與本

地及國外實習計劃的學生提供高達港幣5,000元及港幣10,000元 的資助。在2016/17學年,共為來自4個學系的54名學生提供了超 過港幣43萬元的資助。頒獎典禮上,大會展示了同學拍攝的有趣 短片,與觀眾一同分享同學在實習過程中的難忘點滴。

為了嘉許在公開考試中成績優異的新生,學院還設立了「入學獎 學金」。合資格申請者可獲得高達港幣35,000元的獎學金。今年 共有17名學生榮獲此獎項。

再次祝賀所有獲獎的同學!





Revamped BA Programme of ITC



In recent years, the dynamics of the fashion and textiles industry have changed dramatically. With the emergence of online shopping and digital sales and marketing, strong market demand for highquality functional garments and growing awareness of fashion sustainability, a new generation of talented professionals trained in

these aspects is required. In this connection, the Institute of Textiles and Clothing (ITC) has revamped its full-time four-year BA (Hons) Scheme in Fashion & Textiles to address these new challenges and equip students with the skills that will best serve the industry in the future.

The programme emphasizes the integration of theory and practice. After mastering basic principles in the first year, students can pursue studies in one of five specialisms based on their interests and desired career:

- Technology
- Design
- Intimate Apparel and Activewear
- Knitwear Design and Technology
- Retail and Marketing

Another highlight is the revamped summer internship. Students with excellent academic and interview performances are selected to enroll in this programme, which offers seven weeks of local or overseas study trips or practical training in various departments of a partner company.

Student learning experience: meeting the needs of community and industries

Enriching the learning experience and broadening the students' horizons have always been at the heart of the ITC's mission. For the tenth year running, ITC students participated in the prestigious Future Retail Challenge student competition in Madrid, Spain on 19 April. With sponsorship and professional guidance from Li & Fung, the ITC team proposed the 'V. Farm' project, which aims to transform an abandoned 50-storey building in the Tianhe District of Guangdong Province, mainland China into a vertical farm with highly integrated technologies including AI, hydroponics, smart LED lights and robotic gardens. The initiative won enthusiastic praise from the international judges, and our students were awarded the contest's championship.

In alignment with PolyU's goal of nurturing graduates into 'responsible global citizens', 20 sets of fashionable outfits were created by elderly or disabled designers in partnership with nearly 100 PolyU students. These were modelled on the catwalk of the 'Youreable' Fashion Design 2018 Award Presentation Ceremony on 6 April at Hotel ICON. By offering the elderly and the disabled a platform to showcase their talents through creating fashion designs for their loved ones, Youreable Fashion Design also helped strengthen the students' confidence and communication skills. The students learnt many important lessons from working together with these designers, and gained valuable experience in applying their professional knowledge and communication abilities to help the needy.





ITC students were awarded the Championship in Future Retail Challenge in Madrid, Spain



X PolyU stages "Youreable" Fashion Design 2018 Award Presentation



香港理工大學 紡織及服裝學系 學士課程改革計劃

近年,時裝和紡織業的發展發生了巨大變化。隨著網絡購物、 數碼銷售與營銷的興起,對優質功能性時裝的市場需求,以及 對時尚可持續性意識的日益增長,業界極需這些方面的新一代 傑出專業人才。因此,香港理工大學紡織及服裝學系(ITC)順 應市場需求,對時裝與紡織領域的全日制四年制文學學士學位 (榮譽學位)的課程進行了改革,以應對這些新的挑戰,並培 養學生相關的技能,為將來投身於該行業做好準備。

該計劃強調理論與實踐相結合。經過第一年的學習,在學生掌 握了基本知識後,可以根據自己的興趣和職業期望在五個專業 中任選其一深入研讀:

- 技術
- 設計
- 內衣及運動服
- 針織時裝設計及科技
- •零售及營銷

另一個亮點是暑期實習的革新。學系會挑選學業成績優秀和面 試表現突出的學生參加暑期實習計劃,為他們提供為期七週的 本地或海外考察旅行或在合作公司的不同部門參加實習培訓。

學生學習體驗:迎合社群和行業需求

香港理工大學紡織及服裝學系一貫以豐富學生學習體驗及拓展 學生視野為宗旨。於4月19日,同學赴西班牙馬德里參加了 「未來零售領袖挑戰賽」,這是本學系連續第十年參加此項廣 受認可的賽事。在利豐集團的贊助和專業指導下,紡織及服裝 學系團隊提交了「V. Farm」項目方案,旨在將中國內地廣東 省天河區的一座50層的廢棄建築改造成一個技術高度集成的 垂直農場,集人工智能、水培、智能 LED 燈和機器化花園於 一身。該項提議贏得了國際評委的熱烈讚譽,並順利摘得了此 次比賽的桂冠。

為培養新一代「負責任的全球公民」,近百名理大畢業生與長 者及傷健人士合作設計了 20 套時尚服飾。這些服裝於 4 月 6 日在唯港薈酒店舉辦的「展才設計 2018」頒獎典禮的時裝秀 環節中亮相。此次活動為長者及傷健人士提供了一個展示才華 的平台,讓他們為自己的至親設計時尚服飾,而「展才設計」 大獎亦有助於增強學生的自信和溝通技巧。學生通過與業內設 計師合作,獲得了重要的行業經驗,並在運用專業知識和溝通 技能幫助弱勢社群方面積累了寶貴的經驗。

Teaching philosophy:

To Awaken the Natural Curiosity of the Mind

> Students are most observant when they see teachers bring energy and passion for their subject, which is contagious to their own learning. It creates a positive atmosphere in which they are comforted to realise that any learning difficulties they may have can be treated as opportunities to explore misconceptions.

Dr Susan Ho, Senior Teaching Fellow, Department of Applied Biology and Chemical Technology Faculty Award for Outstanding Performance/Achievement in Teaching 2005/06 and 2013/14

When I began teaching in the Department of ABCT 18 years ago, classes were small – typically with a maximum of 33 students – which allowed me to get to know the students well. In fact, it taught me to dig deeper and to explore different ways of explaining topics to bring about a more stimulating discussion. I found that teaching and learning became a twoway street, where both student and teacher learned from, and taught, each other. Years after adopting this approach to learning, I find that I have become a better teacher than when I first joined the Department, and am much better prepared for today's large class sizes as well as for being a final year project advisor.



I was also fortunate to become involved in students' extracurricular projects along the way, where topics discussed in the classroom could now be applied to real life. For instance, one year a group of undergraduate students who needed support in forming an environmental awareness society called the 'Green Generation' invited me to be their advisor. After helping them secure a sponsorship from Barclays Bank, together we produced leaflets, posters and educational forums for the public, as well as spending weekends cleaning beaches and planting trees. The team entered a competition held by the Environmental Campaign Committee and I was very proud to see our students win first place.

More recently, I was approached to help a team of enthusiastic local high school students test the feasibility of their newly invented self-cleaning toilet seats, which they hypothesised would be an effective antibacterial technology. The students learnt not only how to properly carry out numerous microbiologic methods, but more importantly, the scientific method itself. The experience gave them a very practical introduction to scientific research and development, highlighting the importance of accuracy, patience and persistence. It was a delight to see their interests aroused and

^{救學理念:} *唤醒與生俱來的好奇心*

— 何智芳博士 · 高級專任導師 應用生物及化學科技學系 2005/06 年度和 2013/14 年度學院特設傑出表現/成就獎(教學)

18 年前,當我在應用生物及化學 科技學系開始教學生涯時,班級 裡的學生並不多,通常最多也只 有33 名學生。這可以讓我仔細了 解每位學生。事實上,這教會了 我深入挖掘和探索解釋課題的不 同方論。我發現教與學是雙向的, 所謂教學相長、寓教於學。在我發 現自己相較於剛入職時更稱職,

 當學生切身感受到老師為他們 的學科帶來的正能量和熱誠時, 他們也會耳濡目染。這可創造一 個具有正能量的氛圍,讓他們很 好地意識到可以將任何學習困難 視為探索錯誤觀念的機會。

對於現今的大班級教學模式,以及作為畢業班的項目指導更得 心應手。

此外,我很榮幸能夠參與學生的各種課外項目,並藉此機會將 在課堂上討論的課題應用到現實生活中。例如,有一年,一群 本科生在組建一個名為「綠色一代」的環保意識協會時需要幫 助,因此邀請我擔任他們的顧問。在幫助他們獲得巴克萊銀行 的贊助後,我們一起製作宣傳單、海報和發起公眾教育論壇, 並在週末清理海灘和種植樹木。該團隊參加了環境運動委員會 舉辦的比賽並摘得桂冠,令我深感欣慰。

最近,我獲一群滿腔熱情的本地高中生邀請測試他們的新發明 (自動清潔馬桶座圈),如果可行的話,這將是一種有效的抗 菌技術。學生不僅學會了不同測試微生物的方法,更重要的是 樹立了正面的科學態度。這些經歷為他們提供了一個非常實用 的科學研究和發展機會,尤其是讓他們意識到準確性、耐心和

how they set out to raise their standards when they made mistakes. The students went on to showcase their innovative idea – supported now by scientific evidence – at a local science competition, where they became one of the finalists out of a field of hundreds.

Another part of my learning curve as a teacher occurred when I began creating interactive learning resources, such as our Virtual Laboratories series. In developing an interactive, animated laboratory exercise, I was forced to break down what we typically think of as simple techniques into many smaller actions that usually never enter our conscious awareness. The insight that I gained has allowed me to further refine my approach to teaching and learning – especially in student laboratory courses – resulting in a better understanding of students' grasp of laboratory techniques.

I have found that the classroom is a very dynamic place, where teachers can share their knowledge, and where students can strive to excel. It is the place where I began as a student, and now the place that continues to teach me so much more than I could have imagined. As a teacher, I strive to instil a sense of curiosity in my students to challenge them to fill the gaps 堅持的重要性。我非常高興看到 他們發掘到新的興趣,以及懂得 嚴格要求自己更加細心謹慎。這 些同學繼續在科學競賽中展示他 們的創新理念,現已得到科學證 據的支持,並在數百位參賽者中 成功入圍。

開始創建互動學習資源(例如虛 擬實驗室系列)時·我又開始了 身為教師的另一個學習階段。在

編制互動式動畫實驗室練習時,我需要將簡單的技巧分拆為多 個我們日常生活中習以為常的簡單行動。所獲得的洞見使我能 夠進一步完善自己的教學方法,特別是在學生實驗室課程中, 從而更能了解學生對實驗室技能的掌握程度。

我發現教室是一個非常有活力的地方·教師可以在這裡分享他 們的知識,學生可以在這裡努力學習。這是我當學生時學習的 地方,現在這個地方將繼續教給我更多知識,並遠遠超出我的 想像。作為一名教師,我致力激發學生的好奇心,為他們創造 挑戰,填補他們的知識空白。我希望營造一個能鼓勵學生尋找 感興趣學科的環境,因為興趣就是最好的老師。我希望我的學 生能夠舒展抱負,我重視學生的個人背景和經歷,並鼓勵他們 跟我形成一種相互學習、亦師亦友的關係。這就是我為學生制 定的目標。



in their knowledge. I hope to nurture an environment that encourages students to seek out disciplines that excite them, as true learning occurs best when it is most meaningful. I expect my students to fulfil their responsibilities to themselves, I value the individual backgrounds and experiences of my students, and I encourage them to teach me as I teach them. That is what I aim to create for our students. Innovation and Science 創新與科技

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False positive rate (1-Specificity)

Prof. Yang Xiao-qi, Professor, Department of Applied Mathematics Faculty Award for Outstanding Performance/Achievement 2016/17 (Research and Scholarly Activities)

Nonlinear Optimisation Theory and Applications

Measured by the biological gold standards, the forecasting of gene regulatory networks can be made more accurate by exploiting the multiple gene group structure of transcription factor complexes, and that the successful application of group sparse optimization to gene transcriptional regulation can aid biologists to understand the gene regulation of higher model organisms at the genome-wide scale. My research interests include generalized augmented Lagrangian theory in nonlinear optimisation, error bounds and piecewise linear functions in variational analysis, and multicriteria optimization with applications to portfolio selection in conjunction with transaction costs and sparsity requirements.

Generalized augmented Lagrangian theory includes the zero duality gap, exact penalization and convergence theory. This theory provides a solid foundation for the primal-dual augmented Lagrangian algorithm. Traditionally this theory has used a convex augmenting function originating from the classical convex quadratic penalty term. My team has worked on replacing the convex augmenting function with level-bounded augmenting functions, which include a class of nonconvex and non-smooth penalty functions as a special case. This case allows that a wide class of optimization problems, including mathematical optimizations with equilibrium constraints, has an error bound/exact penalty function. We have established that the penalty functions with lower-order powers of $l_{p}(p<1)$ have an exact penalty parameter smaller than that of the classical l_i exact penalty function, and that when using the l_i penalty function, a smaller penalty parameter is required for finding an approximate optimal solution. In practice, too large a penalty parameter may cause numerical instability in computational experiments.

The lower-order-power penalty function has been widely used in machine learning research and compressing sensing, due to its better sparse-promoting property. In this respect, we have studied the regularisation problem of the group $I_{p,q}(q < I)$ with applications in gene regulatory networks. Our work shows that, measured by the biological gold standards, the forecasting of gene regulatory networks can be made more accurate by exploiting the multiple gene group structure of transcription factor complexes, and that the successful application of group sparse optimization to gene transcriptional regulation can aid biologists to understand the gene regulation of higher model organisms at the genome-wide scale.

The multiobjective optimization problem is another research topic of mine, which aims to reconcile conflicting objectives in practical problems, such as the travel cost and travel time in a transportation network or the risks and returns of portfolio management. The worst-case-scenario criterion has been studied in many areas of science, engineering and decision science. We have applied this criterion to portfolio selection in financial stock markets to introduce bi-criteria portfolio linear programming, where the risk is measured using the maximum of the individual risks of all of the assets. By applying the first-order optimality condition, we have established that this problem has an optimal analytic solution, where the assets with higher returns are chosen first but the amount of investment in each selected asset is inversely reciprocal to the level of the risk of the asset. This is intuitively consistent with common sense when constructing an investment strategy.

Multiobjective linear programming has important applications in economic theory and decision science. One of the contributions of the 1972 Nobel Laureate in Economics, K. J. Arrow, was establishing that the Pareto solution set of multiobjective linear programming is the union of the finitely many polyhedra. Later, this result was applied to design a multiobjective simplex method. For multiobjective piecewise linear programming, we have obtained that its Pareto solution set is the union of the finitely many semi-closed polyhedra, and applied it to design an algorithm to obtain the Pareto point set for bi-criteria piecewise linear programming. The next unsolved challenge is to design an algorithm for tri-criteria piecewise linear programming. The latter problem appears when one considers the dividend/liquidity as the third criterion, in addition to the variance and mean, in portfolio selection.





—— 楊曉琪教授·應用數學系教授 2016/17 年度學院特設傑出表現/成就獎(研究及學術活動)

「在生物領域的通用標準下,利用轉 錄因數複合體的多基因組結構能讓 基因調控網路的預測更準確。該應 用能夠説明生物學家在全基因組水 準瞭解高等模式生物的基因調控。」

我的研究興趣包括非線性優化中的廣義增廣拉格朗日理論,變分分析 中的誤差界和分片線性函數,和多目標優化以及其用於投資組合選擇 裡涉及交易成本和稀疏性要求的問題。

廣義增廣拉格朗日理論包括零對偶間隙、精確罰和收斂理論。該理論 為原始-對偶增廣拉格朗日演算法提供了堅實的基礎。過去,該理論 主要使用來源於經典的凸二次懲罰項的凸增廣函數。我的團隊一直致 力於用水準有界增廣函數代替凸增廣函數,這樣就能包括一類非凸、 非平滑罰函數作為特例。這類函數能應用於更廣泛的優化問題,如: 均衡約束數學規劃,且具有誤差界或精確罰函數。我們的研究表明, 低階罰函數($l_p(p < I$)的精確罰參數比經典 l_1 精確罰函數的小。除此之 外,使用 l_p 罰函數時往往需要使用較小的罰參數以用於尋找近似最優 解。實際應用中,過大的罰參數可能會導致數值計算的不穩定。

低階罰函數因其更好的稀疏性能被廣泛應用於機器學習和壓縮感知。因此,我們研究了組稀疏函數: *l_{pq}(q<1)*的正則化問題,並將其應用于基因調控網路。我們的成果表明:在生物領域的通用標準下,利用轉錄因數複合體的多基因組結構能讓基因調控網路的預測更準確。該應用能夠說明生物學家在全基因組水準瞭解高等模式生物的基因調控。

我的另一個研究課題是多目標優化問題,目的是折中處理實際問題中 的衝突目標,如交通網絡中的行程費用和時間、投資組合管理的風 險和回報。其中,最壞情景準則在許多領域,如工程、決策科學領 域,已被廣泛研究。我們將該準則應用于金融股票市場中的投資組合 選擇:引入雙準則投資組合線性規劃,以最高單資產風險衡量整體風 險。應用一階最優性條件,我們確定了該問題的最優解析解:首先選 擇回報率較高的資產,而後每個選定資產的投資量與該資產的風險水 準成反比。我們認為該解析解與投資常識是一致的。

多目標線性規劃在經濟理論和決策科學中有著重要的應用。1972年 諾貝爾經濟學獎獲得者 K.J.Arrow 的貢獻之一是證明了多目標線性規 劃的 Pareto 解集是有限多個多面體的並集。後來,該結果被用於設 計多目標單純形法。對多目標分片線性規劃,我們得到了類似的結 論:Pareto 解集是有限多個半閉多面體的並集。隨後我們運用該結論 設計了能獲得雙準則分片線性規劃的 Pareto 點集的演算法。在投資 組合選擇中,除了方差與均值,股息或流動性可作為第三個準則加入 優化目標。這種情況下,如何設計一個三準則分片線性規劃演算法是 一個亟待解決的難題。

AI on Fashion & Textile Conference 人工智能與時尚紡織大會

Over the last two decades, with the great advances in computer technology, research into artificial intelligence (AI) and its applications in fashion and the textile supply chain has become a very hot topic receiving increasing attention from academia and industry. The first-of-itskind AIFT conference will bring together researchers, engineers and practitioners of the application of AI on fashion and textiles to discuss and explore the most promising theories and topics in applied AI.

在過去 20 年裡,隨著電腦科技的巨大進步,研究人工智能 (AI)及其在時尚和紡織品供應鏈中的應用已成為學術界和工 業界越來越廣受關注的熱門話題。首屆人工智能與時尚紡 織大會 (AIFT) 讓時尚與紡織領域從事人工智能應用的研究 人員、工程師和從業人員聚首一堂,共同探討人工智能應 用方面最具潛力的理論和話題。

3-6 Jul Hotel ICON and V322, PolyU

PDEs from biology, ecology and life sciences: models and analysis 微分方程理論交流會

Theory of Partial Differential Equations (PDE) has advanced enormously over recent years and plays a prominent role in understanding the mechanisms of various real-life phenomena and practical problems in biology, ecology and life sciences. The theory is now one of the hottest topics in applied mathematics. This workshop aims to bring together experts from the areas mentioned above to report their recent research findings, exchange ideas and engage in collaborations. 微分方程理論在近年得到了很大的發展,對理解一些從生物、生態和生命科學產生出來的複雜現象或實際問題背後 機制的理解起了極為重要的推動作用。通過微分方程研 究,生物數學已經成為應用數學的一個非常活躍的分支。 是次會議的目的是邀請這些領域的一些著名專家彙報他們 最近的成果,交流彼此的研究,以及促進合作。

10-11 9am-5pm Jul TU801, PolyU

FST 10th Anniversary Homecoming Dinner 食品科技與食物安全(榮譽)理學士學位課程成立十週年晚宴

The Department of ABCT is proud to have offered students the BSc(Hons) Programme in Food Safety and Technology since 2008 (self-financed programme launched in 2008; UGC-funded programme launched in 2009). As the only course of its kind locally, this programme has admitted the very best science students and trained many food safety professionals for the food and catering industry over the past years.

In celebrating the programme's 10th anniversary, we are inviting all alumni, current and former faculty members and some very close industrial partners to review the milestones that we have passed, and we hope we can take this opportunity to strengthen the bonds among food professionals for future development.

為慶祝食品科技與食物安全(榮譽)理學士學位課程成立 十週年·應用生物及化學科技學系(ABCT)將於2018年10 月19日舉辦盛大的晚宴·讓歷屆校友可藉此機會與師長、 同窗好友及業界賢達聚首一堂·一同回顧我系多年來的發 展·藉以加強校友和業界間之聯繫交流·並發掘更多合作 機遇。

19 8:00pm Oct Silverbox Ballroom, Hotel ICON

Workshop on Variational Analysis and Related Topics 非線最優化及平衡問題研討會

This workshop aims to bring together experts from across the world in variational analysis, nonlinear optimisation and equilibrium problems, offering them a forum to exchange their recent research findings. 研討會旨在邀請世界各地在變分分析、非線最優化及平衡 問題方面的專家一起交流近期的研究成果。

27-28 9am- 6pm Nov To be Confirmed

KTO Mill

學院校友天地

Sharing the Joys of Biotechnology – Winning Team in Techathon 2018

This year, my team of alumni of BSc (Hons.) in Applied Biology with Biotechnology are delighted to share our happy experience of participation in Techathon 2018, which was co-organized by PolyU (IfE), CityU and The Hong Kong Science and Technology Parks Corporation (HKSTP).

HESTP

THE HONG KONG POLYTECHNIC UNIVERSITY

Techathon is an annual event that encourages participants to make use of their experiences, talents and innovative ideas, in topics including Education/Social Technology, Financial Technology, Healthcare Technology and the Internet of Things, to solve various problems in these and related fields. Teams compete to integrate their ideas with the needs of the real market and devise innovative strategies to create a range of business models in the real world.

My team participated in Techathon 2018 under the category of Healthcare Technology. Our novel ideas involved the use of new biotechnology to analyse the genetic features of *— Mr Samuel Yung* Graduate of BSc (Hons.) in Applied Biology with Biotechnology (2003)

human body for monitoring the health status of individuals. In addition to the innovations contributed by my team, important scientific advice was also provided by Dr Johnny Tang from the Department of Applied Biology and Chemical Technology. Without his valuable advice and support, it would have been impossible for my group to be the winning team in the event. Now, my team is working closely with HKSTP to realize our prospective ideas in real markets. Moreover, our ideas and experiences were also secured a sum of investment amount of HKD18 million from private investors.

I would like to once again thank all of the teaching staff from the Faculty of Applied Science and Textiles. They have equipped all of our graduates with a solid foundation of knowledge and technical skills, enabling them to be highly competitive in related disciplines. I sincerely hope that there will be more opportunities for close collaboration among alumni and teachers in our faculty.

分享生物技術的樂趣 - Techathon 2018獲獎團隊

應用生物兼生物科技(榮譽)理學士校友團隊今年非常榮幸 參與了由香港理工大學(企業發展院)、香港城市大學及香 港科技園公司 (HKSTP) 聯合舉辦的Techathon 2018。

Techathon 是一項年度盛事,鼓勵參與者利用自己的經驗、才能及創意解決教育/社會科技、金融科技、醫療科技 及物聯網等領域及相關領域的各種難題。各個團隊在比賽期 間一較高下,整合創意與實體市場需求並制定創新策略,以 在現實世界中建立多種商業模式。

我的團隊參與了Techathon 2018的醫療科技類別賽事。 我們的創新意念包括使用全新生物科技分析人體遺傳特徵, 以監測個人健康狀況。此外,應用生物及化學科技院的鄧 焯安博士亦提供了重要科學建議。如沒有他的寶貴建議及

— 翁力行先生

應用生物兼生物科技(榮譽)理學士(2003 屆)

支持·我們的團隊便無法在此賽事中勝出。我們目前正與 HKSTP 密切合作·致力讓我們的前瞻性創意付諸實現及 推向市場。此外·團隊的構思及實踐經驗更獲得投資者投 入一仟八佰萬港元作為支持此初創企業。

謹藉此機會再次感謝應用科學及紡織學院的所有教職員 工。他們讓我們的所有畢業生掌握了紮實的基礎知識及技 術性技能,並在相關領域具高競爭力。本人熱切期待院內 畢業生與教師之間能有更多密切合作的機會。

Alumni, please drop us a few lines to share your update with the FAST Family! 畢業生們,歡迎留言,與FAST大家庭分享 您的近況!



Students' Sharing 學生分享

YEUNG Yiu Wai 楊曜維

– BSc (Hons) in Applied Biology with Biotechnology

I am glad to be a chemistry undergraduate at PolyU. During my four years at this university, I have made many friends and gained a lot of professional knowledge of chemistry. The professors not only focused on theoretical explanation, but also provided comprehensive experimental courses, giving me the skills that I can apply in the future. Apart from my academic study on campus, FAST also provided a lot of internships and exchange opportunities. It was an honour for me to participate in academic research at McGill University in Canada, as well as an exchange student with the University of Southampton in England. During my overseas training,

I experienced another academic atmosphere and the local culture of different countries. My four years of university life have made me more passionate about chemistry and more motivated to pursue a postgraduate study in the future. 在這四年的大學生涯中,我 學習到很多專業的化學知識。學 習過程中,不但有理論上的探究, 還有充足的實驗課與論證,使我將來能 夠學以致用。除了本地的學術研究,我 亦有幸到著名的加拿大麥基爾大學和英國 修咸頓大學進行交流,並從中感受到不 同國家的學術氛圍和文化特色。四年 的大學生活令我對化學更加充滿 熱情,亦更有動力不斷深究 下去。

QUAN Yuhui 全宇辉

- BSc(Hons) in Engineering Physics

of Cambridge last summer, with the chance to travel around and

In the blink of an eye, I have become a final year student of the Department of Applied Physics. I am grateful to have received careful guidance from the professors and to have enjoyed studying and discussions with my classmates. I also participated in research under the supervision of academic staff. I was sponsored by PolyU to study at the University

watch 轉眼間就到了在應用物理 學系就讀的第四年。我很慶幸能 夠得到各位老師的悉心教導,也很享 受與同學一起學習討論的時光。我還獲 得了跟隨教授參與科研的機會。去年暑 假,我得到理大資助前往劍橋大學學習交 流,在課餘時間遊歷了周邊地區,觀看了 曼聯主場比賽。這四年中我學到了很多 新知識,培養了縝密的思維,建立了 寶貴的友誼。在理大應用物理學 系就讀是我人生中美好的經 歷。

watch an exciting home match of Manchester United in my free time. In the past four years, I have acquired professional knowledge, developed more rigorous thinking and gained precious friendships. It has been a wonderful experience in my life to study at the Department of Applied Physics of PolyU.



ZHUANG Yufan, Evan 庄宇凡

- BSc(Hons) in Investment Science

Studying at PolyU has been the best part of my life so far. This is a vibrant place to study and to live. PolyU provides its students with possibilities to fulfil their dreams. As an Applied Mathematics major, I benefit from the opportunity to work with world-class researchers and participate in cutting-edge projects. Also, PolyU offered me a comprehensive professional education that equipped me for a valuable internship opportunity in a London-based financial house during one of my

在理工大學的這四年是我 的人生至今最美好的四年。這裡 充滿著一所年輕大學的蓬勃朝氣, 學生們也通過理大實現自己的夢想。 作為一名應用數學系的學生,理大讓我 有機會與世界一流的學者合作並參與前 治領域的研究。理大也教會了我如何成 為一名專業人士,讓我有機會於倫敦 的優秀金融機構實習並親身體會英 國文化。我在理大的學生生活 很完美。

summers, which was an unforgettable overseas experience. An outstanding school nurtures excellent students. My peers are very bright and hardworking. Students at PolyU seem to have a clear plan for themselves and they do whatever it takes to achieve their goals. I learned a great deal from my peers in this benign yet competitive environment. Studying at PolyU is possibly the best choice I have ever made. I had an amazing university life here.

CHAN Hiu Sen, Ivonbony 陳曉晨

- PhD Student, The Institute of Textiles and Clothing

Having now studied for nine years at PolyU, it is my pleasure to share my university life with you. I am currently a doctoral student in ITC, and PolyU has been my second sweet home. In this warm family, I have had many memorable experiences. During my research activities, I faced new challenges and opportunities, not only academically, but also as part of my teaching experience or when collaborating with industrial partners related to my research. The theoretical and practical education provided by PolyU has been the

greatest gifts in my study life, helping me broaden my views, fulfil many accomplishments and integrate all the skills I have learnt with flexibility and creativity. These experiences have been invaluable for developing my future career and my potential. Last but not least, I welcome you to the big PolyU family and wish you all the best in your future endeavours.

種的我走

如我輕輕的来

作為已入讀理大九 年的學生,很高興能夠分享 我的校園生活。我是紡織及服裝 學系的博士研究生,理大猶如我的第 二個家,亦有太多的美好回憶。研究生 的日子中,我在學習上、教學經驗及與社 會企業的合作面對了各種新挑戰和機會。 理大給予我最寶貴的禮物是助我擴展眼 界,把所學的技巧靈活地與創意融合, 我相信這些都能在未來派上用場。 最後,歡迎你們來到理大這個 大家庭!

FAST Recap 學院點滴



Faculty of Applied Science & Textiles 應用科學及紡績學院

PolyU Live Chat Faculty of Applied Science & Textiles

Your FAST track to World-Class Education 2 May 2018 6:30 - 7:15pm

The Live Chat will begin shortly. Stay tuned!



Co-operated with PolyU International Affairs Office (IAO), the FAST Facebook Live Chat with international students was held on 2 May 2018. We are pleased to have had Dr Michael Yu (ABCT) and Dr Joanne Yip (ITC) to present the course features, discuss career prospects and answer enquiries live from overseas students.

Facebook網上即時互動對話

BEYOND

應用科學及紡織學院與理大國際事務處合作,於本年五月 二日舉辦Facebook網上即時互動對話,與來自世界各地的 學生交流。活動由應用生物及化學科技學系余永耀博士及 紡織及服裝學系葉曉雲博士聯手主持,介紹課程特色及就 業前景,並逐一解答同學的升學疑難。

To view the Live Chat, please access 如欲重溫節目,請瀏覽 https://www.facebook.com/polyuiao/videos/10160415223795370/



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