

CTM

E-Newsletter



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國立清華大學科技管理學院博士生研究獎 NTHU College of Technology Management Doctoral Students Research Award



清大 112 上學期科管院
最多學生修的課竟然是這一堂！

The Most Enrolled Course in the College of Technology Management

她是台灣舉重 3 項紀錄保持人：
專訪運科系 27 級陳冠伶

She is the holder of three weightlifting records in Taiwan

科管院大小事

CTM Highlight

來訪學者專訪 - Prof. Scott Cunningham

Visiting Scholar Interview- Prof. Scott Cunningham



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清大 112 上學期科管院 最多學生修的課竟然是這一堂！

作者：經濟系四年級 曹智陽



馮炳萱老師

大學生通常選修什麼課

大學生需要依照畢業學分要求排定課表，其中包括各式各樣的必修、選修和通識課程。除了有明確目標的人，其餘的大家通常都會彼此打聽、循著那些「又甜又涼」的課程，來讓自己的校園生活可以相對好過一點。然而「甜」跟「涼」分別代表什麼意思呢？甜課通常表示老師給分標準很寬鬆，考試難度也不會太高，除了可以在學期末拿到較好成績，也會感謝自己在學期初搶到這堂課。至於涼課代表這門課作

業不多，通常不需要花太多時間完成任務，就可以安穩度過一個學期。若是有一堂課又甜又涼，那當然就成為同學們的首選了。令人好奇的是，112 學年度上學期科管院最多同學修的課，難道也是又甜又涼嗎？

科管院竟有 192 人修這門課

在了解這堂課以前，我們先來認識授課老師—馮炳萱教授。馮炳萱教授是美國加州大學戴維斯分校的經濟學博士，其研究領域包括國際經濟學、產業經濟學、經濟發展等，他從 2009 年就開始在國立清華大學服務至今，經過 14 年時間，已經升為教授。本學期馮炳萱教授開的課程有統計學一、計量經濟學一、書報討論一、實證研究方法二等，科管院最多學生選的課就是統計學一。這門課原本人數上限為 150 人，在老師善意接受如雪片般飛來的加簽信後，竟成為 192 人的超大班級。

統計學一以英文講授，馮教授會用投影片搭配手寫板書上課。若有推導或證明時，老師也會在課後將筆記上傳到教學平台供學生們研讀。馮教授每講完一個章節，都會給同學大約



20 題作業，其中包括選擇及手寫題；在期中考與期末考前，助教也會提供一份當次考試範圍的模擬試題，讓同學練習並驗收自己的熟悉度。通常不會太困難，但仍會需要花一些時間思考。若在考試前可以搞懂所有題目，考試時應該能拿到不錯的成績。

學生們的修課心得

雖然統計學屬於必修課，但本校有很多老師開授統計學，是什麼原因讓同學們也要「拚死」加簽搶到這門課呢？讓我們來聽聽同學們的說法及修課後的心得吧。

A 同學接受實習記者採訪時表示，雖然是因為聽說其他統計學教學方式「很硬」，而選馮炳萱老師的課，但在上完一學期之後，他感到非常喜歡馮老師，推薦學弟妹們一起來修這門課。他也表示，雖然這堂課是英文授課，但老師無論是在講課或是在推導公式時都解釋得很清楚，不用擔心聽不懂。且只要認真聽課加上用心寫作業，肯定都可以拿到好成績。

至於 B 同學表示，馮老師的英文口說能力很好，同學們不會在辨認口音時感到費力。此外，老師對於統計相關知識都能詳細解釋，讓同學們可以更深入認識統計學。且在期中期末之前，老師都會分派作業讓同學們可以熟悉考試題型，若有用心做完題目，是有機會拿到高分的一門課。

C 同學表示，馮老師對課程準備充分，會隨時注意同學們的吸收速度能否跟上，且考前有練習題可以熟悉，考題也不會太刁



鑽。除了學習統計理論，老師也有於課程中讓大家使用 Excel 和 R 進行資料分析，並結合扎實的實務教程。C 同學也因為上了馮炳萱老師的課，而啟發他對計量領域的研究興趣，正繼續修習馮老師開設的計量經濟學一；他更下定決心，要修完數據科學學分學程，並在未來往這個領域繼續學習發展。

若要說有什麼缺點的話，這門課唯一的缺點應該是人數太多，導致助教在發考卷及分配表時會有點混亂。從眾多同學的意見回饋能夠知道，馮老師不僅會盡力達到教學目標，也能滿足學生需求，同學們上起課來也很自在，是一位讓人非常喜歡的老師。

透過同學們的分享，我們可以知道這門課會有近 200 人研讀，並不是因為容易拿高分或是負擔輕鬆，而是因為馮炳萱老師的用心良苦，同學們也都因為老師的付出而獲益良多。教授用心設計深入淺出的內容，將統計學傳達給廣大學生，才能成就這學期科管院最多學生修習的一門課——統計學一。

她是台灣舉重 3 項紀錄保持人： 專訪運科系 27 級陳冠伶



作者：運科系二年級 張乃方
本文照片由陳冠伶同學提供

編按：2023 年 9 月，杭州亞運舉重項目女子 55 公斤級賽事中，中華隊小將陳冠伶以抓舉 90 公斤、挺舉 108 公斤，總和 198 公斤獲得第 4 名佳績。雖未能發揮自己最佳水準，但仍以僅 18 歲的年紀完成了個人亞運首秀。

近年來，陳冠伶陸續在國、內外各項賽事取得亮眼的表現：如 2023 年 4 月全中運，她完成高中三連霸、破全國紀錄；隨後在 5 月亞錦賽拿下 3 面金牌、再次刷新全國紀錄；7 月亞青賽，她奪下 3 面金牌、取得亞運資格；9 月初世錦賽，她再次為中華隊奪下 3 面金牌；9 月底杭州亞運，她

取得第 4 名，為本屆中華舉重隊最年輕選手；10 月台南全運會，再次制霸全場拿下金牌，並打破大會 3 項紀錄。

很難想像，屢破全國紀錄的陳冠伶，是從國二才開始練習舉重運動的。現在就讓我們透過實習記者的採訪，認識現正就讀本校運科系的陳冠伶同學吧！

毅然決然踏上的舉重之路

國中時，陳冠伶在學校的籃球校隊打球，冠伶回憶道：「那時人數不足，出去比賽還需要足球隊同學支援，想不到我們在一次比賽還拿到第三名，滿厲害的！」當時



籃球隊人數不足、瀕臨解散，恰逢新校長上任，他先前服務的學校有舉重隊，「校長看我體格不錯，問我想不想試試看（舉重）？」陳冠伶抱著試一試的心情，開始嘗試舉重。

轉換初期，陳冠伶一開始就面臨許多挑戰，好比當時國中校內沒有資源，只得到板橋跟其他學校舉重隊一起訓練；此外，陳冠伶讀的是普通班，要跟上訓練，就得從下午第二節課起請公假，才能配合訓練時間。換做旁人，可能早就感到困難重重而退出，她卻表示，並沒因此想放棄過。被問到當年是否只有她一人去練舉重？陳冠伶還苦笑道：「對，本來還打算拉幾個朋友一起，但他們都沒什麼興趣。」陳冠伶就這樣踏上自己從不曾想過的舉重之路。

受傷，是更了解自己身體的好機會

2020 年，陳冠伶在國三時首次參與全中運，即以抓舉 61 公斤、挺舉 81 公斤、總和 142 公斤成績奪得國女舉重 55 公斤級冠軍，並刷新挺舉的大會紀錄，開啟她在全中運勇奪 4 屆金牌、高中組 3 連霸的戰績。這時的她，接觸舉重僅一年而已。

2021 年，陳冠伶升上高一，再次登上全中運舞台，然而，她在首次挺舉時就發生手肘韌帶撕裂傷，當時教練希望她放棄比賽，避免傷勢惡化；但在陳冠伶自己堅持下，教練只得臨陣改變策略，最後，陳冠伶以抓舉 73 公斤、挺舉 94 公斤、總和 167 公斤，奪下高中女子舉重 55 公斤級金牌。

這是陳冠伶運動生涯最嚴重的一次受傷，她大約耗費半年時間才逐漸恢復。陳冠伶被問到面對運動傷害的心態時，她比了比受傷位置，坦然地說：「比起受傷痊癒的

過程，更重要的是，要懂得如何藉此預防下次再受傷。受傷能讓人更了解自己的身體結構、出力方式。」當時恰逢新冠肺炎疫情爆發，讓陳冠伶只能一邊養傷，一邊在家中透過視訊自主訓練，「可能因為當時我才高一，選手的運動生涯還很長，所以覺得還好。」高中階段就能懷著如此堅定、正向的心態，或許正是陳冠伶能不斷突破自我的原因。

「時間久了，你會知道自己要的是什麼」

陳冠伶舉重生涯的起步階段，也是她的少女時代，在訓練時看見朋友們出遊、逛街，她是否會羨慕呢？「國中時確實比較會羨慕，別人去哪裡玩，往往會約我，但我只能說我要訓練。到高中時已比較習慣，因為時間久了，知道自己要的是什麼。」陳冠伶堅定的說：「而且我在比賽拿下好成績，大家也會很羨慕，但他們通常不知道你拿成績前的那些辛苦、做了什麼事。運動員就是要犧牲掉很多，像是玩樂時間。」身為運動員，陳冠伶知道自己幾乎沒有假日，勝利的唯一捷徑，只有日復一日的精進訓練。

進入清大就讀後，陳冠伶為了充分訓練，常常自己開車往返學校和住處：「學校這裡目前沒有合適的場地，每天往返，其實心理很疲勞，不太習慣。以前高中時下課就是練習和休息，相對沒有通勤擠壓時間。」那麼，上大學後的學業表現如何呢？冠伶苦笑道：「不好，剛開學就請公假，集訓和比賽不斷循環，踏進教室上第一堂課時就接近期中考了。好在同學會給我資料，但沒去上課也只能了解大概。老師們



知道我的狀況，會給我一點時間準備後再考試。」賽季不斷，冠伶只能靠詢問同學來補上請公假時落後的進度。

走下大舞台，回歸日常訓練

「舉重選手的心理素質要求很高，有正向的心理思考，才能調整到理想狀態去面對比賽。」陳冠伶認真說道。平時練習後，冠伶會撰寫訓練日誌，寫下自己在訓練時的各種感受。「像最近，其實練的不太好，我覺得有點在迷茫的狀態，這時我就會去翻以前寫過的日誌，回想正向經驗是如何發生的。」陳冠伶坦言，自己一直以來是個好勝的選手，很有企圖心，但連續幾場比賽下來，她坦言自己一時還找不回原本的手感。



前幾年受疫情影響，體壇較少舉辦舉重比賽，2023 年是陳冠伶第一次在一年中連續接受七、八場比賽洗禮；密集出賽讓她得一直將身心狀態維持在顛峰，「衝到最高峰再下來時是最難的，會有點迷茫，不知道自己下一步踏在哪裡」，陳冠伶思考了一下，接著說：「有點空虛，比完比賽後回到平靜，這個過程裡，要讓自己重新累積」，運動員即使曾經登上再大的舞台，都得回歸到平常，反覆訓練、持續累積。

展望奧運

說起印象最深刻的比賽，陳冠伶毫不猶豫的回答：「是 2023 年 5 月的亞錦賽」。陳冠伶回憶說：「全中運一比完，隔周就是亞錦賽，當時我自覺狀況不錯，可能是全中運沒有相當的對手，這讓自己似乎有些輕忽、大意，沒有衝勁。」不過在亞錦賽中，她仍然以抓舉 90 公斤、挺舉 114 公斤、總和 204 公斤，破了自己的最佳，並一舉拿下了亞運的出賽資格。

談及接下來的目標，陳冠伶說：「教練把

我的目標放得很遠，我們打算去拚亞運、奧運。」有鑑於未來的奧運比賽中，女子舉重確定沒有 55 公斤量級，因此冠伶若想參加奧運，就得挑戰 59 公斤量級，然而，這也是全球好手如雲、競爭相當激烈的量級，「這幾年先奠定好基礎、在 55 公斤級若能拿到亞洲甚至世界冠軍，等教練覺得時機點到了，再上去（59 公斤級），才會是最好的時機。」冠伶表示，她將目標放在 2032 年奧運，但 2028 奧運還是要拚拚看，「也就是五年後了，其實滿快的」。

陳冠伶在 2023 年接連奪下多個冠軍、多次刷新自己創下的全國紀錄，但她對此並不感到自滿，而是將眼光放遠到幾年後的奧運。訪談當下，可以感受到她正處於瓶頸，但相信過不了多久，年輕的陳冠伶就能找回最初的自己，繼續在舞台上發光發熱！



院內大小事

CTM Highlight

作者：由院辦公室提供

活動 俞國華先生冥誕 110 周年 紀念研討會

YU KUO-HWA
Memorial Symposium



1 月 10 日於科技管理學院台積館一樓孫運璿演講廳舉行，參加國立台灣大學前校長管中閔講座教授及新加坡國立大學商學院前院長 楊賢講座教授的專題演講，以及加入臺灣聯合大學系統 陳力俊校長、清華大學台北政經學院 陳添枝教授、永豐金控陳思寬董事長的聯合論壇，共同關心討論台灣科技發展與產業政策。

On January 10th, a special lecture was held at the College of Technology Management. The event featured keynote speeches by Professor Chun-Ming Kuan, former president of National Taiwan University, and Professor Bernard Yin Yeung, former dean of the NUS Business School at the National University of Singapore. Additionally, a joint forum was organized with the participation of President Lih-Juann Chen from the University System

of Taiwan, Professor Tain-Jy Chen from National Tsing Hua University, and Chairman Shi-kuan Chen of SinoPac Holding Company. The forum aimed to collectively address and discuss the issues related to the development of technology and industrial policies in Taiwan.

活動 科管院歲末感恩餐會

CTM Year-End
Gratitude Banquet

感謝每一位參與我們於 1 月 10 日舉辦的歲末感恩餐會的師長、同仁及校友們！這個充滿感激和歡樂的夜晚，彷彿是一道溫暖的光芒，讓我們攜手共度美好時光，並一同迎接新的一年。

2023 年對科管院而言是個特別的一年，翻新 12 間教室、改造 5 處閱讀及公共空間，院內及系所舉辦超過 30 場各類專業演講與學生活動。這一切的成就，都得歸功於每一位同學的參與，以及同仁們辛勞的付出。感謝您們在教學和行政工作上的辛苦，是您們的奉獻成就了科管院的不斷進步。

Thank you to every teacher, colleague, and alumni who participated in our year-end gratitude banquet held on January 10th! This evening filled with gratitude and joy was like a warm glow, allowing us to share wonderful moments, welcoming the new year together.

更多精彩照片 More pics :



活動 2023 年科管院重要記事

2023 Highlight of CTM

我們捕捉到了科管院的精華瞬間，見證了科管院同仁與同學的努力和創意。從各演講及研討會到各類活動，每一刻都是我們共同成長的足跡。歡迎觀看，讓我們一同重溫那些難忘的瞬間。

We captured the essence of moments at CTM, witnessing the dedication and creativity of our faculty and students. From various lectures and seminars to a variety of events, each moment represents the collective journey of our growth. Feel free to watch, and let's revisit those unforgettable moments together.

2023 年科管院重要記事影片 Video :



宣傳 2024 科管院最新宣傳影片

One Day in CTM: Students' Perspective on CTM

科管院學生的一天：學生對科管院的看法 想知道科管院學生對科管院的想法嗎？我們訪問了來自經濟系、科管院學士班 (IPMT) 以及科管院國際學程 (IBBA) 的幾位學生。讓我們窺視一下科管院學生

的一天，看看他們都說了些什麼。

Do you want to know how CTM students think about CTM? Check out this video. We interviewed several students from the Departments of Economics, Interdisciplinary Program of Management and Technology (IPMT), and the International Bachelor of Business Administration Program (IBBA). Let's explore a day in CTM and hear what they have to say.

影片連結 Link :



榮譽 112 學年度科技管理學院 博士生研究獎

2023 CTM Doctoral Students Research Award



恭喜得獎者，獲獎名單如下：

經濟系 ECON 雷昆穎博士生

Mr. Kun-Ying Lei (郭俊宏老師指導)

經濟系 ECON 楊婕妤博士生

Ms. Jie-Yu Yang (林世昌老師指導)

服科所 ISS 沈紋正博士生

Mr. Wen-Cheng Shen (林福仁老師指導)

科管所 ITM 朱婷婷博士生

Ms. Ting-Ting Zhu (王振源老師指導)

科管所 ITM 施慧鈺博士生
Ms. Hui-Yu Shih (洪世章老師指導)

113 年度績優職技人員 / 優秀約用人員

經濟系 蘇盈如小姐

榮獲 113 年度績優職技人員

科管院學生職涯發展辦公室 林宜秀 小姐

榮獲 113 年優秀約用人員

Miss Su Ying-Ju, Economics Department, has been awarded the Outstanding Professional and Technical Personnel in the 113th academic year.

Miss Lin Yi-Hsiu from the Office of Career Development was honored as the Outstanding Contracted Personnel in the 113th academic year.

資源
分享

CTM x Mastercheers

線上課程

CTM x Mastercheers Online Courses

科技管理學院雙語計畫辦公室與 Mastercheers 合作，推出兩門英語發音的課程：

- 來自哈佛商學院黃樂仁教授的「創造個人優勢：哈佛學生都在學的精英公式」
- 來自耶魯大學勞力·桑托斯 (Laurie Santos) 的「耶魯快樂學：修練幸福的 15 堂課」

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- 來自微軟前大中華區副總裁蔡恩全老師的「溝通表達：登上國際舞台最需要的

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The EMI (English as a Medium of Instruction) Office of the College of Technology Management collaborates with MasterCheers to launch two English pronunciation courses:

"Creating Personal Advantages: The Elite Formula Harvard Students Are Learning" by Professor Laura Huang from Harvard Business School.

"Yale Happiness Course: 15 Lessons on Practicing Happiness" by Laurie Santos from Yale University.

These courses aim to help you discover your personal values and strengths while enjoying the learning process!

Additionally, we highly recommend another course:

"Communication Expression: The Soft Skills Needed on the International Stage" by Mr. Davis Tsai, former Vice President of Microsoft Greater China Region, will skillfully guide you through the secrets of effective communication.

Feel free to watch and learn, discovering how to create personal advantages and finding your own happiness!

Please note that due to copyright issues, viewing is restricted to the National Tsing Hua University network. If you wish to access it, please use a VPN to connect to the NTHU network.

線上課程連結 Link：





來訪學者專訪

CTM Interview Series – Prof. Scott Cunningham

By Xiao-Qing Wu (Silvia), ITM

此訪談係依據本院「科管院教師邀請共同作者來訪獎助辦法」，邀請獲獎來訪學者以公開演講或座談、訪談等方式，與本院師生分享其研究經驗。此次受訪學者為科管所胡美智老師之共同作者 Prof. Scott Cunningham，現任英國斯特拉斯克萊德大學教授。

本篇文章由本院跨領域研究辦公室提供

This article is provided by the Office of Interdisciplinary Research.

The interview was conducted according to the regulations of the CTM Travel Grant for Inviting Coauthor to Visit. In this report, the scholar interviewed is ITM Professor Mei-Chih Hu's coauthor, Scott Cunningham, Professor of Politics at the School of Government and Public Policy, University of Strathclyde.

Introduction

In the dynamic landscape of the modern era, where technology and societal dynamics blend with swift and significant outcomes, Professor Scott Cunningham is a prominent figure in the field of policy and planning

concerning technology. At the forefront of academic leadership as a Professor at the School of Government and Public Policy at the University of Strathclyde in the UK, and as a co-editor-in-chief for the esteemed journal "Technological Forecasting and Social Change," he plays a crucial role in steering conversations about how communities anticipate and adjust to the winds of technological change.

Educated at the University of Sussex with a Doctorate in Science, Technology, and Innovation Policy, and holding a Master's in Public Policy from the Georgia Institute of Technology, Prof. Cunningham's academic roots are as robust as they are relevant. His Bachelor's in Engineering Science and Mechanics from the same institute reflects a lifelong dedication to understanding the very framework of technology's role in our lives.

Armed with expertise in policy analysis, urban analytics, and a range of analytical techniques like game theory and text mining, Professor Cunningham possesses a broad array of skills that enable him to navigate the complex issues prevalent in contemporary urban and technological environments. The honors he has received—like being named a Technology and Innovation Cluster Champion and being recognized among Europe's top 100 scientists in Arts, Design, and Architecture—attest to his impact and commitment to his field.

Interview

Xiao-Qing Wu: Can you describe a pivotal moment in your early life

that steered you towards a career in technology, innovation, and policy?

Dr. Scott Cunningham: Absolutely. During my undergraduate years, I was intensely focused on studying Engineering Science and Mechanics. However, as I approached my senior year, I began to feel an increasing pull towards understanding not just the "how" of technology but the "why" behind its societal implications. This growing curiosity led me to pursue a Master's in Public Policy. It was a stark contrast, moving from the intricate technicalities of engineering to the broad landscape of policy-making. However, when it came time to choose a direction for my doctoral studies, I realized that I could merge my background in engineering with my newfound passion for policy. This led me to the field of Technology and Innovation Policy, where I could address the interplay between technical advancements and their societal implications. It felt like a harmonious integration of my academic journey, combining the knowledge and insights I had gathered throughout my studies.

Xiao-Qing Wu: It's interesting how early experiences can shape our paths. Speaking of which, your academic journey spans from Engineering at Georgia Tech to a D.Phil. in Innovation Policy at the University of Sussex. How has this unique blend influenced your approach to research and teaching?

Dr. Scott Cunningham: Well, it's been a bit like a game of two halves! On one side, I've got my engineering training from Georgia Tech, which has me focusing

on the details — it's all about precision and the finer points, really. Then, my time at Sussex introduced me to Innovation Policy. It's a bit like having a foot on two boats, navigating the waters of detail and strategy. When it comes to research or stirring up discussions in class, I'm constantly shifting gears. Technologies, to me, are vital pieces of a larger societal puzzle. It's truly engaging and rewarding to piece this puzzle together, to figure out how each part contributes to the bigger picture.

Xiao-Qing Wu: That's a valuable perspective. Moving on, given your diverse experiences, from being an Econometric Engineer at IBM DemandTec Solutions to your present role at the University of Strathclyde, how would you say these roles have molded your academic perspective?

Dr. Scott Cunningham: Dr. Scott Cunningham: Indeed, it's been quite the expedition! My time at IBM had me at the front line of data, involved in the real-world applications of technology—where attention to detail wasn't just ideal, it was critical. This hands-on experience with the raw numbers laid a robust foundation in the significance of in-depth analysis. Presently, at Strathclyde, I'm afforded the opportunity to take a step back and consider the larger picture, tackling the 'how', the 'why', and pondering the 'what next'. Combining these perspectives has provided me with a comprehensive outlook, allowing for a holistic understanding that bridges the gap between minute detail and the expansive landscape of technological progress.

Xiao-Qing Wu: Absolutely fascinating! On another note, I'm quite keen to know — throughout your distinguished career, which particular project or role would you say has given you the most satisfaction, and why?

Dr. Scott Cunningham: Among the many rewarding projects I've been a part of, the EU-funded BigProd project stands out prominently. This initiative aimed to address the puzzling dilemma of European economies: despite being innovative, they struggled to boost productivity, wages, and domestic growth. What made this project particularly gratifying was our ambitious approach to combine traditional econometrics with 'Big Data' insights. We explored the complex reasons behind the stagnation in productivity in numerous Western economies. Using a stratified sample of an astounding 200,000 European companies, we sought to bring fresh, data-driven perspectives to the table. Witnessing our findings shape new, impactful policies aimed at rectifying the productivity conundrum in the EU was a profound moment in my career. It exemplified the power of blending rigorous research with practical policy-making.

Xiao-Qing Wu: Let's switch gears a little bit. Dr. Cunningham, your connection with Taiwan, and in particular, your collaborative relationship with Prof. Mei-Chih Hu from National Tsing Hua University, is quite remarkable. You both occupy the prestigious roles of Co-Editor-in-Chief for the journal "Technological Forecasting and Social Change". Could you share more about this professional

partnership and the collaborative dynamic that you two share in guiding the journal's influential course?

Dr. Scott Cunningham: My association with Prof. Mei-Chih Hu began when we both took on the roles of Co-Editor-in-Chief for the journal "Technological Forecasting and Social Change". Working alongside Prof. Mei-Chih Hu has been an intellectually rewarding experience. Our combined expertise has uniquely positioned us to take a multifaceted approach to the journal's direction. My background in policy and technology analysis frequently probes the foundational systems and analytical frameworks that drive technological progress. On the other hand, Prof. Hu's expertise in intellectual property rights and national innovation systems offers a comprehensive understanding of the complexities of technology management and strategy on a macro level. Together, we strive to offer a comprehensive view, weaving together both micro and macro approaches, to the conversation in "Technological Forecasting and Social Change". This integration guarantees a wide array of subjects and dialogues that reflect upon and relate to the present and forthcoming obstacles in the field of technological and social change.

Xiao-Qing Wu: Based on your collaborations and experiences in Taiwan, how do you perceive the country's position in global technological and academic advancements?

Dr. Scott Cunningham: Taiwan, in my view, holds a pivotal position. It's a hub of innovation, with its advancements in

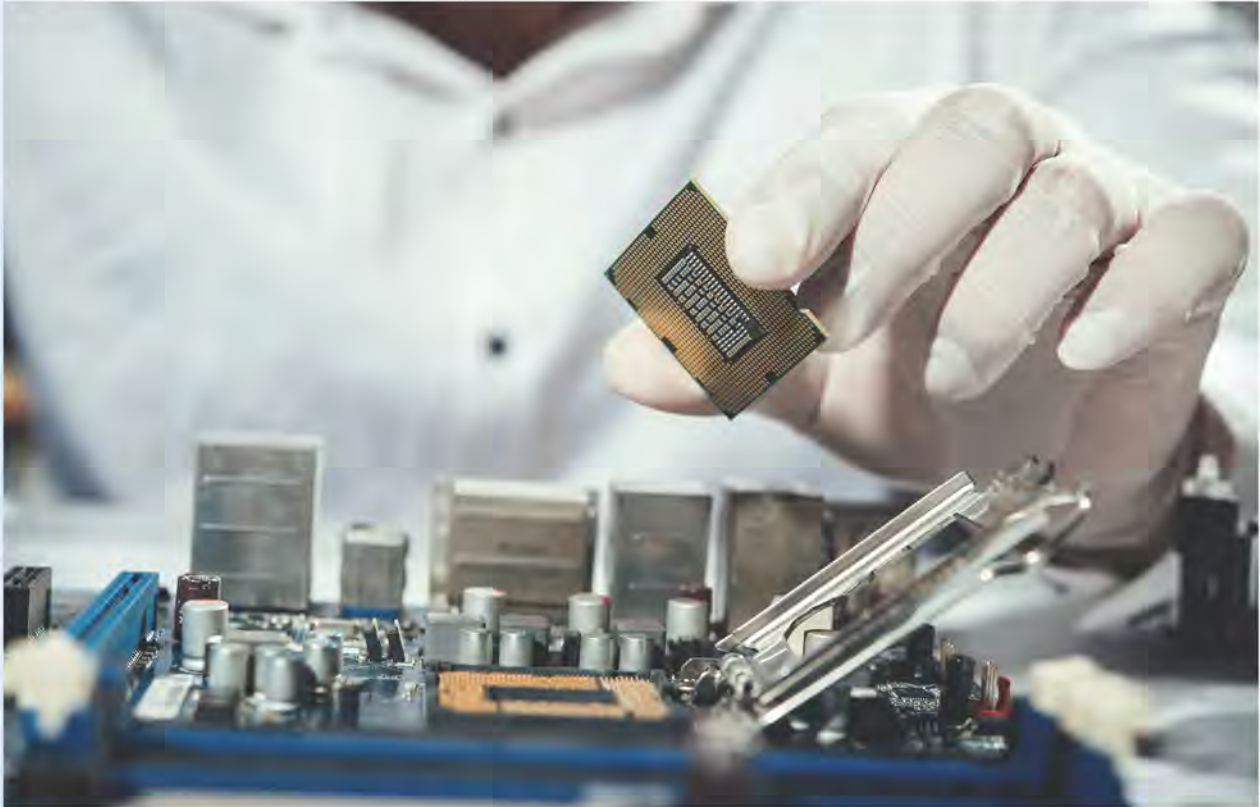
semiconductor technology being a prime example. Furthermore, the country's academic institutions emphasize research that has real-world applications, bridging the gap between theory and practice. From my collaborations and experiences, I can confidently say that Taiwan is at the forefront of both technological innovation and academic research. Its ability to meld tradition with cutting-edge developments positions it uniquely on the global stage.

Xiao-Qing Wu: Fascinating! Given your expertise in urban analytics and technology, how would you compare Taiwan to your home country, the United Kingdom, in terms of urban living and technological integration?

Dr. Scott Cunningham: Certainly, it's an interesting topic. Taiwan and the UK are both islands, but both countries are special in their own ways.

In the UK, particularly in cities like London, life moves at a leisurely pace. We have a fondness for our holidays, sometimes even more than our workdays, and football is a national passion. London's city view is a mix of old and new, with historic buildings and modern skyscrapers next to each other, showing a special blend of traditional and modern life.

In Taiwan, cities like Taipei are quickly mixing old and new ways of living. You'll see old temples right next to new, environmentally friendly buildings. Taiwan's public transport is really good, and technology is a big part of everyday life. You've been quick to use new technology, always trying new things.



Xiao-Qing Wu: Dr. Cunningham, let's talk about some lighter aspects of your life. What are your hobbies or what do you usually do in your spare time?

Dr. Scott Cunningham: You know, it's funny, these days in Taiwan, I wake up right around 1 a.m. That's roughly 9 p.m. back in the UK. Do you know what happens around that time in the UK? It's prime time for friends to gather at the local pub for a chat! We really cherish our pub time. So, even though I'm physically here, a part of me still feels connected to that delightful tradition back home. Cheers to that!

Xiao-Qing Wu: That's a delightful parallel, Dr. Cunningham! I can almost hear the clinking of glasses from here. How many times have you been to Taiwan, and what's your impression of it?

Dr. Scott Cunningham: This is

actually my first time in Taiwan. And, you know, one of the highlights of my visit was the time I spent in Hualien and Taitung. Hualien, in particular, holds a special place in my heart. I had the chance to experience the culture of the indigenous tribes there. Their warmth and hospitality were simply overwhelming. They welcomed me into their traditional ceremonies, which was a unique experience. I gained such a deep appreciation for the diverse and rich cultures that Taiwan holds. That experience wasn't just a visit; it felt like a heartfelt journey into Taiwan's indigenous traditions. I genuinely love it here!

Xiao-Qing Wu: Before we conclude, Dr. Cunningham, if you could travel back in time and give a piece of advice to your 18-year-old self, what would it be?

Dr. Scott Cunningham: That's an intriguing question. If I could speak to



my 18-year-old self, I would emphasize the importance of embracing change and uncertainty. I'd say, "Scott, don't be afraid to step into the unknown, because that's where some of the most rewarding experiences and opportunities lie. Keep your curiosity alive, be open to diverse perspectives, and never stop learning. The future is filled with surprises, and it's your willingness to adapt and grow that will make all the difference."

Xiao-Qing Wu: Dr. Cunningham, it's been great having this talk. Before we wrap up, any last thoughts for us?

Dr. Scott Cunningham: Thanks, it's been a real treat. Life's a big learning adventure, and I love sharing bits of mine. Remember, every bit we learn helps us make smarter choices tomorrow. So, let's keep learning and see where it takes us!

Conclusion

Our conversation with Professor Scott Cunningham has been an illuminating journey. His journey and work illustrate the value of a diverse educational background in understanding the role of technology in society. As a policy expert with an engineering core, Professor

Cunningham reminds us that learning across disciplines is crucial for grasping the societal impacts of technological advancements. His stories from Taiwan to the UK encompass a celebration of heritage, an embrace of the new, and a reminder that personal growth often accompanies professional pursuits. His collaboration with Prof. Mei-Chih Hu, bridging Western and Eastern academic prowess, underscores a global approach to understanding and forecasting technological change. This partnership exemplifies the need for varied perspectives in guiding the discourse on technological and social transformation.

This interview has not only offered us a deeper understanding of the profound complexities and beauties of technological integration within different societal contexts but also left us with an inspirational message: in the vast learning adventure that is life, every new piece of knowledge acquired is a stepping stone towards a more informed and insightful tomorrow.

deep- rooted respect for tradition. The Japanese dedication to mastering one's craft and the concept of 'kaizen'

The Most Enrolled Course in the College of Technology Management

作者：經濟系四年級 曹智陽

What Courses Do University Students Usually Choose?

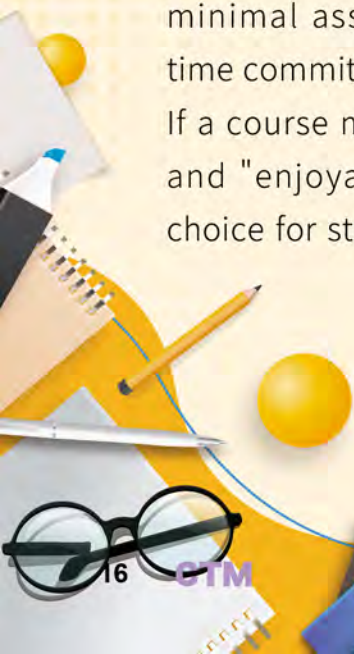
University students typically select their courses based on graduation credit requirements, including various compulsory, elective, and general education courses. Aside from those with clear goals, students often inquire about and seek out courses known for being "easy and enjoyable" to make their campus life more enjoyable. But what does "easy" and "enjoyable" really mean? An "easy" course usually implies lenient grading standards and manageable exam difficulty, allowing students to secure good grades by the end of the semester. On the other hand, an "enjoyable" course indicates minimal assignments, requiring less time commitment throughout the term. If a course manages to be both "easy" and "enjoyable," it becomes the top choice for students. Surprisingly, in the



first semester of the 112th academic year, the most enrolled course in the College of Technology Management at NTHU, does it fit s this description.

College of Technology Management Boasts 192 Students Enrolled in the Course

Before delving into details about this course, let's first get acquainted with the instructor, Professor Loretta Fung. Dr. Fung holds a Ph.D. in Economics from the University of California, Davis.



Her research areas include international economics, industrial economics, and economic development. Having served at National Tsing Hua University since 2009, she has risen to the rank of professor over 14 years. In the current semester, Professor Fung teaches courses such as Statistics I, Econometrics I, Seminar and Discussion I, and Empirical Research Methods II. The most enrolled course among CTM students is Statistics I, originally designed for 150 students but expanded to accommodate a whopping 192 students after the instructor graciously accepted numerous add-drop requests.

Statistics I is taught in English, with Professor Fung using slides and handwritten boards during lectures. When derivations or proofs are involved, the professor uploads the notes to the teaching platform for students to review after class. After completing each chapter, Professor Fung assigns approximately 20 homework problems, including multiple-choice and handwritten questions. Before midterm and final exams, the teaching assistants provide a set of practice questions covering the exam content, allowing students to practice and assess their familiarity with the material. While not excessively difficult, these assignments still require thoughtful consideration. If all the problems are understood

before the exam, students should perform well.

Student Experiences in the Course

Though Statistics is a mandatory course, there are many instructors offering it at NTHU. What makes students strive to enroll in Professor Fung's class? Let's hear the opinions and experiences of some students.

Student A, interviewed by an intern journalist, mentioned that he initially chose Professor Fung's course because he heard other Statistics classes were "challenging." However, after completing a semester, he found himself genuinely liking Professor Fung and recommended the course to fellow students. Despite being taught in English, the student praised Professor Fung for explaining concepts clearly during lectures and when deriving formulas. He emphasized that with attentive listening and dedicated completion of assignments, achieving good grades is attainable.

Student B expressed that Professor Fung has excellent English communication skills, making it easy for students to understand





without struggling with accents. Additionally, the professor provides detailed explanations of statistical concepts, allowing students to gain a deeper understanding of the subject. Assignments assigned before midterms and finals help students familiarize themselves with the exam format, providing an opportunity to score high if approached with diligence.

Student C shared that Professor Fung is well-prepared for the course, regularly gauging students' comprehension and offering practice problems before exams. In addition to teaching statistical theory, the professor incorporates practical aspects, guiding students to use Excel and R for data analysis. Student C was inspired by Professor Fung's class to pursue further studies in econometrics, currently enrolled in Econometrics I. This student has set a goal to complete the Data

Science credit program, demonstrating a newfound interest in the field.

While there is one drawback—overcrowded classes leading to some chaos during exam paper distribution—feedback from numerous students indicates that Professor Fung not only strives to achieve teaching goals but also meets students' needs, creating a comfortable learning environment. Professor Fung is genuinely liked by students, contributing to the success of the most enrolled course in the College of Technology Management this semester.

Through students' sharing, it becomes clear that nearly 200 students choose this course not merely for easy grading or a light workload but because of Professor Fung's dedicated teaching, benefiting students in various ways. A professor who designs engaging and comprehensible content, conveying statistics to a wide range of students, is the key factor behind the success of the most enrolled course in the College of Technology Management this semester—Statistics I.



She is the holder of three weightlifting records in Taiwan: an interview with Chen Guan-Ling, a 27th-year student majoring in sports science.



作者：運科系二年級 張乃方
本文照片由陳冠伶同學提供

Editor's Note: In September 2023, at the Hangzhou Asian Games weightlifting event in the women's 55kg category, Chen Guan-Ling of the Chinese Taipei team achieved an impressive 4th place with a snatch of 90kg, a clean and jerk of 108kg, and a total of 198kg. Despite not reaching her peak performance, she accomplished her first Asian Games appearance at the age of just 18.

In recent years, Chen Guan-Ling has consistently delivered outstanding performances in various national and international events. In April 2023, she secured her third consecutive victory in high school and broke the national record at the National High School Games. Following this, in May, she won three gold medals at the Asian Weightlifting Championships, once again setting national records. In July, she won three



gold medals at the Asian Youth Games, securing a spot in the Asian Games. In early September, she claimed three gold medals at the World Championships. At the end of September, at the Hangzhou Asian Games, she achieved 4th place, making her the youngest member of the Chinese weightlifting team. In October, at the Tainan National Games, she dominated the competition, winning gold and breaking three event records.

It's hard to imagine that Chen Guan-Ling, who repeatedly broke national records, only started practicing weightlifting in the second year of junior high. Let's get to know more about Chen Guan-Ling, a student currently majoring in sports science at our school, through an interview with an intern reporter!

Resolutely Embarking on the Path of Weightlifting

During junior high, Chen Guan-Ling played basketball for the school team. Reflecting on those days, she said, "We had a small team, and for competitions, we even needed support from members

of the soccer team. Surprisingly, we managed to secure third place in one competition; it was quite impressive!" As the basketball team faced a shortage of players and was on the verge of dissolution, coincidentally, a new principal took office. He had experience with a weightlifting team in his previous school and noticed Chen Guan-Ling's good physique. He asked her, "Would you like to give weightlifting a try?" With a mindset to give it a shot, Chen Guan-Ling began her journey into weightlifting.

In the initial stages, Chen Guan-Ling faced numerous challenges. As there were no resources for weightlifting training within the junior high school, she had to train with the weightlifting teams of other schools in Banqiao. Additionally, as a student in the regular classes, she had to take leave from the second afternoon class onward to match the training schedule. For someone else, the difficulties might have been overwhelming, leading to quitting, but she expressed that she never thought of giving up. When asked if she was the only one practicing weightlifting during those early days, Chen Guan-Ling chuckled and said, "Yes, I initially planned to invite a few friends, but they didn't show much interest." This is how Chen Guan-Ling embarked on a weightlifting journey she never anticipated.

Injury – an Opportunity to Better Understand One's Body

In 2020, during her third year of junior high, Chen Guan-Ling participated in the National High School Games for the

first time. She won the championship in the women's 55kg weightlifting category with a snatch of 61kg, a clean and jerk of 81kg, and a total of 142kg. She also broke the competition record for the clean and jerk, marking the beginning of her impressive four-time gold medal-winning streak and three consecutive championships in the high school division at the National Games. At that time, she had only been involved in weightlifting for a year.

In 2021, Chen Guan-Ling entered high school and once again competed in the National High School Games. However, during her first clean and jerk attempt, she suffered a torn elbow ligament. Although her coach suggested withdrawing from the competition to prevent further injury, Chen Guan-Ling insisted on continuing. Adapting to the situation, the coach changed the strategy, and Chen Guan-Ling eventually secured the gold medal in the women's 55kg weightlifting category with a snatch of 73kg, a clean and jerk of 94kg, and a total of 167kg.

This injury marked the most severe one in Chen Guan-Ling's sports career, taking approximately six months to gradually recover. When asked about her mindset towards sports injuries, she compared the injured location, stating, "Rather than focusing on the process of healing from the injury, it is more important to understand how to prevent it from happening again. Injuries allow you to better understand your body structure and exertion methods." At that time, with the outbreak of the COVID-19 pandemic, Chen Guan-Ling could only rehabilitate while at home, engaging in self-directed

training through video calls. She mentioned, "Perhaps because I was only in the first year of high school at that time, and athletes have a long sports career ahead, I felt okay about it."

"Over time, you will know what you want."

The early stages of Chen Guan-Ling's weightlifting career coincided with her adolescence. During training, while seeing friends going out and shopping, did she feel envious? "In junior high, I did feel more envious. Others often invited me when they went out, but I could only say that I had training. By the time I reached high school, I became more accustomed because, over time, I knew what I wanted." Chen Guan-Ling firmly stated,





"Moreover, when I achieve good results in competitions, people tend to be envious, but they usually don't know about the hardships and efforts before achieving those results. Athletes have to sacrifice a lot, such as leisure time." As an athlete, Chen Guan-Ling knows she has almost no holidays, and the only shortcut to victory is the day-to-day dedication to training.

After entering National Tsing Hua University, Chen Guan-Ling often commutes between school and her residence by driving herself. She mentioned, "Currently, there is no suitable venue here at school. The daily commute can be mentally exhausting, and I'm not quite used to it. In high school, after class, I would practice and rest. There was relatively less commuting and time pressure." So, how has her academic performance been in university? Chen Guan-Ling chuckled and said, "Not good. I took leave right after the semester started, and the cycle of training and competition continued. When I entered the classroom for the first class, the

midterm exam was approaching. Luckily, classmates provided me with information, but not attending class means I only have a general understanding. The teachers are aware of my situation and give me some time to prepare before exams." With continuous competitions throughout the season, Chen Guan-Ling can only catch up on the progress missed during her leave by asking classmates.

Stepping Down from the Grand Stage, Returning to Regular Training

"Weightlifters require high mental resilience and positive psychological thinking to adjust to the ideal state for competitions," Chen Guan-Ling earnestly stated. After regular practice, she writes a training diary, recording various feelings during her training. "Recently, my training hasn't been going well. I feel a bit lost. At such times, I would go back and read the diaries I wrote before, recalling how positive experiences occurred." Chen Guan-Ling admitted that she has always been a competitive athlete, highly ambitious, but after several consecutive competitions, she currently finds it challenging to regain her original feeling.

In the past few years, affected by the pandemic, there were fewer weightlifting competitions in the sports arena. In 2023, Chen Guan-Ling experienced continuous participation in seven or eight competitions within a year, subjecting herself to peak physical and mental conditions. "It's the most difficult when rushing to the highest peak and then coming down. It can be a bit confusing,

not knowing where to step next," Chen Guan-Ling reflected. After a moment of thought, she continued, "It feels a bit empty. After finishing the competition and returning to calmness, in this process, I need to rebuild myself." Even if athletes have stood on the biggest stages, they must return to their everyday routines, repeatedly training and accumulating.

Looking Ahead to the Olympics

When asked about the most memorable competition, Chen Guan-Ling responded without hesitation, "It was the Asian Weightlifting Championships in May 2023." Recalling that event, she said, "After the National Games, the Asian Championships were held the following week. At that time, I felt in good condition. Perhaps, there wasn't much competition at the National Games, which made me somewhat careless and complacent." Nevertheless, at the Asian Championships, she still achieved a snatch of 90kg, a clean and jerk of 114kg, and a total of 204kg, breaking her personal best and securing qualification for the Asian Games.

Discussing future goals, Chen Guan-Ling said, "My coach sets my goals quite high. We plan to aim for the Asian Games and the Olympics." Considering that there is no 55kg weight class for women's weightlifting in future Olympic competitions, if Chen Guan-Ling wants to participate in the Olympics, she will have to challenge the 59kg weight class. However, this weight class is highly competitive, with numerous top-notch athletes globally. "In the coming years, if I can establish a solid foundation and win



the Asian or even world championship in the 55kg category, when the coach feels the timing is right, I'll move up to the 59kg category. That will be the best time," she stated. Chen Guan-Ling mentioned that her goal is set on the 2032 Olympics, but she will also try her best for the 2028 Olympics, which is only five years away.

In 2023, Chen Guan-Ling secured multiple championships, repeatedly breaking her own national records. However, she does not feel complacent about it; instead, she is looking far ahead to the Olympics in the coming years. During the interview, one could sense that she is currently facing a bottleneck, but it won't be long before the young Chen Guan-Ling rediscovers her initial self and continues to shine brightly on the stage!

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