



2022 出國交換經驗分享會

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全球從新冠肺炎 (COVID-19) 疫情中逐步復甦，停滯已久的國際交流活動也在校園中重新熱絡起來。2022 年 10 月 26 日本院邀請潘怡汝同學、成文瑄同學分享至瑞士 ETH Zurich、瑞典皇家理工學院交換生經驗。瑞士 ETH Zurich、瑞典皇家理工學院都是世界排名前茅頂尖大學，二位同學分享交換心得，獲得學弟妹熱烈反應。

潘怡汝同學於 2021 年 9 月至 2022 年 2 月赴瑞士 ETH Zurich 交換。瑞士 ETH Zurich 是歐陸第一名校，世界 QS 排名第八，為偏向研究型的大學。潘同學選修了 ETH Zurich 三門資工的課，分別是電腦視覺、深度學習和混合實境。她表示，ETH Zurich 像交大一樣，作業很多。其中，深度學習是 ETH Zurich 熱門課程，有 300 多人修課，project 題目是要求要解決一個科學上的問題，簡單來說是能發表論文的題目。潘怡汝同學說，團隊合作溝通蠻順暢的，不過很可惜的是沒有好的設備，所以最後來不及將模型訓練完整。混合實境則是要完成一個小組 project，但實作題目是教授們決定好的。原本很期待和組員的溝通交流、想題目，但後來發現只能討論如何實作，和在交大修過類似的課不同，讓她蠻失落的。

成文瑄同學於 2022 年 1 至 6 月赴瑞典皇家理工學院，瑞典皇家理工學院連續二年名列 QS 世界排名百大。在交換期間總共修習三門 CS 的專業課程，分別是 Matlab、Music Acoustics 和 Musical Communication and Music Technology。後面二堂課都是資工的研究所開的課程，雖然它們的名字看起來不像。Music Acoustics 教了各種樂器是如何發聲的，像是弦如何震動，如何合成樂器的聲音之類。Musical Communication and Music Technology 則是一堂很奇妙的課程，期末報告是和斯德哥爾摩的表演藝術博物館合作，製作和博物館裡有關的應用，我們這組是用 Pure Data 來做出一個豎琴的手機應用。

最後，二位同學也分享了交換期間生活經驗。由於北歐外食價格偏高，二位同學都練就自己開伙煮飯的功夫。成文瑄同學指出，交換是一個讓她在大學的最後好好放鬆心情的一段時間，比起課堂上的內容，她學到了更多課外、生活上的能力。潘怡汝同學表示，出國交換讓她變得更加獨立了，另外如何平衡生活、學習、休閒也是她在國外學到的很重要的一課。

2022 Study Abroad: Experience Sharing Event

Amidst the gradual recovery from the COVID-19 pandemic, the international exchange programs on campus have resumed after a long period of stagnation. On October 26, 2022, the College of Computer Science invited Yi-Ju Pan and Wen-Hsuan Cheng to share their experience as exchange students at ETH Zurich in Switzerland and KTH Royal Institute of Technology in Sweden, both of which are top universities in the world. The exchange experience they shared has received enthusiastic responses from our students.

Yi-Ju Pan went to ETH Zurich for an exchange program from September 2021 to February 2022. ETH Zurich, a research-oriented university, is the top ranked university in Europe and has been ranked the eighth best university in the world in the QS World University Rankings 2022. Pan took Computer Vision, Deep Learning and Mixed Reality in ETH Zurich. She said that ETH Zurich, like National Yang Ming Chiao Tung University, has a lot of assignments. Among the courses she took, Deep Learning is a popular course at ETH Zurich, with over 300 students enrolled. The course project is to solve a scientific problem; in other words, it is a topic that can be published. Pan said that the teamwork and communication were effective, but it was a pity that the model was not fully trained in the end due to a lack of good equipment. As for Mixed Reality, the students formed teams to solve the topic decided by the lecturer. Pan had initially looked forward to discussing the topic with her team members, but later realized that they could only discuss how to implement it. The design of this program, which is different from the courses she had previously taken at National Yang Ming Chiao Tung University, left her severely disappointed.

Wen-Hsuan Cheng went to KTH Royal Institute of Technology from January to June 2022. For the second consecutive year, KTH is ranked among world's top 100 universities in the QS World University Rankings. During the exchange program, Cheng enrolled in three computer science courses: Matlab, Music Acoustics, and Musical Communication and Music Technology. Despite their names not indicating it, the last two courses are indeed offered by the Institute of Computer Science. The "Music Acoustics" course taught how various musical instruments produce sound, such as how strings vibrate and how to synthesize instrument sounds, and so on. "Musical Communication and Music Technology" was a fascinating course. The term project was to collaborate with the Swedish Museum of Performing Arts to build applications associated with the museum. At last, her team utilized Pure Data to develop a harp mobile application.

Finally, Pan and Cheng shared their life experiences during the sharing event. Cooking for themselves became a necessity for them in Northern Europe due to the high prices of dining out, and as a result, they have honed their cooking skills. According to Cheng, the time she spent studying abroad provided her with an opportunity to tame stress as she approached the final stage of her university education. In comparison to the content taught in class, she acquired a greater understanding of life skills and extracurricular activities. Meanwhile, Pan said that studying abroad has made her more independent, and furthermore, she acquired a significant insight into maintaining a balance between studies, personal life, and recreational activities while staying abroad.