國立交通大學
National Chiao Tung University

出國報告（出國類別：學研訪問）

美國舊金山洛杉磯及聖地牙哥拓展本校雲端開放教育平台訪問交流

服務機關：交大高等教育開放資源研究中心
姓名職稱：李威儀　主任
派赴國家：美國舊金山/洛杉磯/聖地牙哥
出國期間：2013/9/3~9/6
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摘要

開放式數位教育或雲端學習，已漸為全球最重要的高等教育趨勢之一。大中華地區擁有全世界最多之高等教育在學人口及網路使用者，華人對教育與學習的重視更是舉世皆知。兩岸四地的華人具合作優勢，若能團結齊心，參考國外先例，為華文世界共同發起一個開放式的網路教育平臺，使全球華人皆能共用知識經濟時代之發展成果，將造福全球華人世界，亦將帶動學習風潮，引領其他學校跟進。 有鑑於此，本校由高等教育開放資源研究中心負責規畫邀請大陸四校交大一同發起雲端開放教育平臺，由本校開始著手設計及建置平臺，並預計在今年十月間正式開始上課。

為使華文世界的開放教育平台與大規模開放式線上課程的發展更為國際化，此行分別前往美國洛杉磯及聖地牙哥地區拜訪 University of California-Irvine, University of California-San Diego, University of California- Los Angeles, University of California-Santa Barbara 及 University of California-Berkeley 介紹本校負責建構的雲端開放教育平台，並進一步試探邀請加州大學提供華文課程的可能性。

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一、目的

　　2 開放式數位教育或雲端學習，已漸為全球最重要的高等教育趨勢之一。大中華地區擁有全世界最多之高等教育在學人口及網路使用者，華人對教育與學習的重視更是舉世皆知。兩岸四地的華人具合作優勢，若能團結齊心，參考國外先例，為華文世界共同發起一個開放式的網路教育平臺，使全球華人皆能共用知識經濟時代之發展成果，將造福全球華人世界，亦將帶動學習風潮，引領其他學校跟進。　有鑑於此，本校由高等教育開放資源研究中心負責規畫邀請大陸四校交大一同發起雲端開放教育平臺，由本校開始著手設計及建置平臺，並預計在今年十月間正式開始上課。

　　為使華文世界的開放教育平台與大規模開放式線上課程的發展更為國際化，此行分別前往美國洛杉磯及聖地牙哥地區拜訪 University of California-Irvine, University of California-San Diego, University of California Los Angeles , University of California-Santa Barbara 及 University of California-Berkeley 介紹本校負責建構的雲端開放教育平台，並進一步試探邀請加州大學提供華文課程的可能性。

二、過程

8/29(四) 台北 飛舊金山

8/29–9/2 私人行程

9/3 (二) 拜訪 University of California – Irvine 分校
1.自舊金山搭乘 6:45 班機飛往洛杉磯
2.拜訪 Univ. of Cal. – Irvine 與該校負責推動 OpenCourseWare (OCW)的 Prof. Gary Matkin 及 Prof. Larry Cooperman 等人會面，說明本校推動開放教育之歷程 (提供參考文件如下圖) 及介紹本校購建之雲端教育平台，並邀請該校加入提供課程。Prof. Gary Matkin 表示將在該校嘗試尋找華裔教授在本校平台上開課。

国立交通大學
National Chiao Tung University

National Chiao Tung University and the Open Education Movement

National Chiao Tung University (NCTU) in Taiwan always believes that educational resources, instead of being the privilege of a small amount of students, should be available to more people. Therefore, National Chiao Tung University always stays at the front line to promote open education in Chinese communities.

In 2007, National Chiao Tung University established the first university-led Chinese OpenCourseWare (OCW) website and became the first university in Chinese communities to join the OpenCourseWare Consortium (OCWC). Since then, National Chiao Tung University continues to produce outstanding video lectures with complete course materials. Within six years, around 150 video courses have been made available. NCTU OCW website has averagely 65,000 visits and 410,000 total page views per month, along with a total of 300,000 users from all over the world every year. Our course videos are also the most frequently uploaded university course videos onto Youku, the largest video hosting site in China.

In 2009, National Chiao Tung University initiated the foundation of the Taiwan OpenCourseWare Consortium (TOCWC). Now, TOCWC has 26 university members, which amount to more than 15% of the universities in Taiwan, including top universities such as National Taiwan University, National Tsing Hua University, and National Cheng Kung University. The consortium offers more than 1,000 courses in total, with 80% of which are video courses. The OCW websites of the consortium members attract more than 150,000 users in total per month.

Due to our long-term devotion to open education, National Chiao Tung University became aware that the infrastructure for the development of the massive open online courses (MOOCs) had matured at the beginning of 2012, and started paying attention to related developments in other countries. Later, with the establishment of Coursera and edX, we realized that we need to take actions in Chinese communities. Thus, in Sep. 2012, five Chiao Tung Universities in mainland China and Taiwan (Shanghai Jiao Tong University, Xi'An Jiaotong University, Soutthwest Jiaotong University, Beijing Jiaotong University, and National Chiao Tung University) discussed the possibility of collaborating on a Chinese MOOC platform. This concept immediately gained the approval of all five universities, and the construction of the platform was started in early 2013. After six-month's hard working, "ewant" platform (http://www.ewant.org) was finally made public in September, 2013. This is the first MOOC platform designed and constructed by Chinese for Chinese. By the end of this year, "ewant" will offer roughly 10 courses provided by the five Chiao Tung Universities. Next year (2014), we will invite more universities in Hong Kong, mainland China, Taiwan, and the U.S. to provide at least 50 courses.

We welcome universities that are willing to contribute to the open education movement. Our goal is to let more people obtain free and high quality educational resources, thereby step closer to realizing Confucius' ideal "education for all.

圖一：交通大學推動開放教育運動之歷程說明

9/4 (三)拜訪 University of California - San Diego 分校

1. 自洛杉磯 開車到聖地牙哥， 拜訪 University of California - San Diego 分校，該校為美國頂尖研究型大學。與任教於該校的中央研究院院士錢煦院士(Prof. Shu Chien)等人會面，說明本校推動雲端教育平台，並希望錢院士能代為邀請該校華裔教授提供課程。

2.說明本校積極推動開放教育運動之歷程(參閱圖一)。

9/5 (四)拜訪 University of California -Los Angeles 分校與 Santa Barbara 分校

1. 聖地牙哥開車到 洛杉磯，拜訪 University of California – Los Angeles 分校與與任教於該校的中央研究院杜經寧院士（Prof. King-Ning Tu）與 Prof. Frank Chang 等人會面，報告本校積極推動開放教育運動之歷程(參閱圖一)，介紹本校推動的雲端教育平台，並希望杜院士能代為邀請該校華裔教授提供課程。

2. 開車到 Santa Barbara，拜訪 University of California – Santa Barbara 分校

3. 與該校 Associate Vice Chancellor for Research Prof. Timothy Kwang-Ting Cheng 等人會面，報告本校積極推動開放教育運動之歷程(參閱圖一)，介紹本校推動的雲端教育平台，並希望代為邀請該校華裔教授提供課程。

4. 晚上從洛杉磯搭乘 8:35pm 班機 飛往舊金山

9/6 (五)拜訪 University of California – Berkeley 分校

拜訪該校負責 MOOCLab 的 Prof. Armando Fox(Professor in Residence, Computer Science Division Academic Director) 報告本校積極推動開放教育運動之歷程(參閱圖一)，介紹本校推動的雲端教育平台，並希望代為邀請該校華裔教授提供課程。

9/7-9/8 私人行程

三、心得及建議

　　絕大多數海外華裔教授並不知道國內開放教育平台的發展，如果能加強對這些海外華裔教授的聯繫及宣傳工作，應該會有更多的華裔教授願意為華文的開放教育平台提供一些課程。其次，因為製作課程必須要有學校的資源幫助，因此仍然需要取得這些華裔教授所在學校的支持，這一點可能比較困難，但可以嘗試溝通。另一個可行的方法就是邀請或藉由這些華裔教授返台的機會，在國內幫他們製作課程，但還未嘗試過這樣的做法，不確定是否會有執行上的困難。