

26-1 學校簡介

達姆斯達特工業學校屬於德國理工九校聯盟，TU9 中其中一成員，是德國著名學校，其校友便孕育出三位諾貝爾獎得主（分別於物理以及化學領域），此外其是全世界第一個創立電子工程學系的學校，該校在電氣與電子工程領域位列德國前三名，學校位於德國經濟重鎮法蘭克福約半小時車程之距離，達姆斯達特城鎮本身便是生活機能很好的城鎮，市中心從超市、連鎖服裝店到電器用品店應有具有。

26-2 國外研修之課程學習（課內）

這學習參與了課程有初級德文、計算機視覺以及深度學習在醫療影像的應用。初級德文的教學方式令我有些出乎意料，從一開始便是直接以全德文授課，而不是先以英文授課，然而這種方式的好處是讓人直接沈浸在德文的會話環境中，若能撐過一開始的陣痛期便能有大幅進步。電腦視覺先是從最一開始攝像機取樣的原理教起，最終概述機器學習在電腦視覺領域上的應用，其每兩週會有一次作業，僅有期末考沒有任何小考。深度學習在醫療影像的應用，一開始會簡述深度學習的原理，中間會實際介紹如何針對臨床的醫療影像去訓練模型，其成績採計有期末考以及期末專案。

26-3 國外研修之生活學習（課外）

以前就有見聞西方國家生活上不像台灣那麼便利，因為外食費用貴得驚人，來這邊最大幅度的改變就是必須得每天下廚養活自己，過去在台灣的生活由於從早餐到宵夜都很方便地取得，很少需要自己下廚，因此在這方面有顯著的進步。

26-4 交換/研修之具體效益（請條列式列舉）

1. 語言的進步：過去在台灣由於自己本身很少會接觸到外國朋友，因此不太會去練習口說，然而在國外則是無時無刻都只能用外語溝通，而也因此能感受到自己口說的進步。
2. 與不同背景的人交流：由於在這可以認識來自世界各國不同的人接觸，也因此可以很自然地與他國的人交流自己國家的不同特色。
3. 探索世界：由於歐洲有廉價航空 Ryanair 或者是長途巴士 Flixbus 可以選擇，因此出國旅遊所需的成本降低許多，我在這趟旅程便探索了總共 13 個國家，在參觀這些國家的途中也親自見證了過去對這些國家記憶中的樣貌。

26-5 感想與建議

在交換的半年期間，除了更了解在國外生活的樣貌，我自己也會不斷的思考其中與台灣的優點，在歐美國家，只要涉及人員服務的部分，價錢都非常之昂貴，舉凡餐廳吃飯、理髮店理髮等，然而在方便度的部分卻又大幅的不如亞洲國家，比如在歐洲幾乎看不到二十四小時營業的超商，或者以醫療為例，我在交換的期間有皮膚過敏的困擾，然而我若想看醫生我得先至家醫科預約，才能再拿轉診單至皮膚科預約，而每次預約都得要等一週，但從中也思考到亞洲國家的方便度，可能是犧牲許多人的生活品質而成。

一、室友：我的室友是由台灣人、中國人、巴基斯坦、孟加拉等組成，其中巴基斯坦以及孟加拉兩國的關係也類似於中國與台灣的關係有些矛盾，然而在各自尊重的情況下，大家也是能處得很好，這張照片是在各自出遊、工作回來後許久不見的情況下，巴基斯坦人還在母國，我們在家裡的群組拍給他的。



二、學校活動：我們學校有一個學生組織叫 ESN，其幾乎每週都會舉辦活動讓大家自由參與，也幾乎都免費參加，這趟旅行是我們參加達姆斯達特近郊的健行所拍攝。



三、在 Darmstadt 的台灣同學：在達姆的這段期間也認識了許多一起從臺灣過來的同學們，分別來自台、清、成、台科以及中興等等，這段期間我們也聚會不少次，在異國的這段期間大家也會一起分享資訊，照顧彼此。



This is my first time stay abroad. Everything for me is so fresh. There is a lot of different lifestyle between my home country with Europe. The most obvious change I did is that I need to cook every day! Living in western world, everything is expensive as long as related to service. Include eating in restaurant, so almost everyone in Europe would cook by themselves.

In the period in German, I learn a lot of things. Firstly is my enhancement in language. In the past, I seldom have chance to practice English or German. But in this period, I have lots of chance to speak, so my language proficiency enhances obviously.

Secondly, I have lots of chance to meet people from other country, and we can exchange our culture. For example, we will knock the desk when class is over in German. First time I met it, I am so puzzled what they doing? And I learned by my classmate that it is a habit for them.

Thirdly, thanks to cheap transport way, like the Ryanair - the low cost flight and Flixbus - famous international bus. It makes travel abroad become cheap. For example, I took Ryanair from Frankfurt to London, which only cost 15 Euro.. I often said it even cheap than from Taipei to Kaohsiung. Besides, as a euro student I can apply for ESN student card, it provides a lot promotion on Ryanair, Flixbus and Hostel and so on... Thence, In the period in German, I travel 13 country. I am so excited that I can see all famous building, church and museum with my own eyes, like Sagrada Family, Eiffel tower and the British museum. Everything is fantastic for me! Especially in Barcelona, I am out of admiration for Gaudi. I can't believe what an amazing creation until I visit those buildings he built.

But there is no way everything is well. I don't know what a convenient life we have until I actually live on abroad. In our country, we can easily meet a convenience store which provide almost everything we need. But in German, there is no store or supermarket opens 24 hours. Evenly, there is almost no store opening on Sunday. And usually we need to take bus or light rail to reach supermarket. (But I am the lucky one... There is a supermarket nearby my home.)

The other example is about medical service. In Taiwan, if we are feeling any unwell, we just search the specific clinic nearby me and just go. In contrast, in my case, I got some skin disease in the period. Even though I surely know I need to go to dermatology, I still need to make an appointment with family doctor at first. Then I need to get a referral letter, so I can make an appointment with dermatology. The worst thing is every reservation need to wait for one week. We often make a joke that our ill would recover before we can go to clinic. To be honest, it can avoid wasting the medical resource. But it is hard to accept for me. Now I can verify that the medical system in Taiwan is the best one!