

其他院校談到自家系所有何亮點、哪裡與眾不同時,都有各擅勝場的領域。但對陽明交通大學資訊學院院長陳志成來說,沒有特別挑出,如資料科學、電信網路等分科的必要。

因為高達 70 位、涵蓋全領域的師資,就是 令他驕傲的最大本錢。

### 獨立資訊院所,鞏固資源

陳志成強調,「我們有獨立的資訊學院,不 是下轄在電資學院底下,」陽明交大資訊學院共 有包含資工系在內的兩種學士班、涵蓋數據科學 與工程在內的五種碩士班,另外,和國防部、警 政署合作設有在職專班。

陳志成表示,陽明交大就是資訊第一品牌,「我們是全台灣最大,老師有70位、學生有2000多位,歷史也是最久。」不只規模傲人,《遠見》與104人力銀行合作調查,資訊學群中,陽明交大碩士畢業生為起薪最高者。

有許多因素能夠解釋這份成績單,但陳志成 認為師資是關鍵。他以資安領域為例,系上就有 好幾位專門研究資通安全的老師,也設有專門學 程,不會將其他老師掛名宣傳。

其他因素如校友連結緊密、緊鄰竹科區位優勢,也讓資工系所和整個資訊學院受惠。資訊工程系系主任黃俊龍分享,系友會主動探詢無償在學校授課的機會,其實就是業界缺人,紛紛提早進入學校布局的具體展現。

陳志成表示,因為系所創立甚久,畢業生已開枝散葉、形成綿密網絡,不只樂於回饋職缺給在學生,「大家會有種肥水不落外人田的想法,」因此,建置新館舍、替教授加薪時向系友募款,也會得到熱烈響應。

近年來,頂尖大學都在力拚國際化,陳志成 也分享目標:研究所以全英文授課。他希望藉此 提升國際化學生生源、讓台灣學生得以和國際接 軌,也意在吸引國外優秀人才來台授課。「希望 過幾年你們來訪問時,院長不會講中文,就代表 我們成功了。」

#### 跨域合作是顯學,無懼潮起潮落

隨著就業市場報酬提高,學生選擇資工科系動機也會上升。陳志成認為,有許多領域對資訊人才都需求孔急,例如醫學領域的智慧醫療、財經領域的金融科技,甚至資訊學院底下的學程,也有相似的跨域情況。

資通安全碩士學位學程主任吳奝松分享,早期談及資安,人們可能會想到電腦病毒,但現在不只是網路產業,包含金融領域,也開始將目光放在資安,「它不是一個獨立學問。」

吳育松強調,學程即將升格成研究所,希望 以平台概念,和校內不同學院研究者跨領域合作。

目前資安學程實作上偏向培養技能型「駭客」,除了參與駭客競賽以外,也有和業界、數發部以及國防部合作;同時,也發展理論研究、提升學術量能。

不過,吳育松坦承,客觀來看,資安產業產值無法與IC及半導體相比,「我們核心技術,還是沒有到世界一流的水準。」陽明交大設立學程目的,就是希望能一樣擁有世界一流的核心技術,而這需要花上10年、20年長期推動。

除了跨領域,資訊學群另一大特色就是不斷改變,且子領域會經歷潮起潮落,例如人工智慧就曾 經歷政府放棄、企業撤資,度過不只一段寒冬期。

吳育松認為,做為龍頭型大學,陽明交大沒有必要逐浪,「你不該說現在 AI 熱門,所有老師全部都下去做,」比起預測新浪頭,更應培養有能力站上每波漲潮的學生。「客觀來講,我們資源夠多,什麼樣的老師都有。」

陳志成也分享,資訊學院目前正在招聘專精 醫療應用的資工學者,原因就是和校內醫學科系 合作。不過,即使迎接新教師,「非熱門」領域 也不用擔心退場問題,因為今日的小眾,說不定 在十年後就會成為大眾。跨域合作機會、學院擁 有足夠資源,都讓陽明交大能夠精耕不同領域。

# "PEOPLE" – The most significant asset of the College of Computer Science At the National Yang Ming Chiao Tung University

Translated by Haydn Chen

When it comes to discussing the unique features or distinctive qualities of one's own departments or colleges, many often emphasize specific disciplinary fields or topics of studies, or equipment and facility. However, for Dr. Chen Jyh-Cheng, Dean of the College of Computer Science at the National Yang Ming Chiao Tung University (NYCU), there is no need to specifically highlight subfields such as data science, or telecommunications networks, because of the faculty size, numbering up to 70, and diverse research they engage in, so that the most significant asset of the College is simply "PEOPLE", and that is what Dean Chen takes the most pride in.

## **Empowering Excellence: Independence Unites Resources**

Chen Jyh-Cheng emphasizes: "We have an independent College of Computer Science (CCS), not a department under the College of Electrical Engineering and Computer Science (EECS) or the College of Engineering (COE)" as in a traditional university structure. NYCU's CCS is composed of one Department of Computer Science offering two undergraduate programs, and five Postgraduate Degree Programs including master degrees in data science and engineering, etc. Moreover, CCS collaborates with the Ministry of Defense and the Police Bureau to provide in-service programs.

Dean Chen states that NYCU CCS is the leading brand in information technology. He says, "We are the largest in Taiwan, with 70 plus faculty members and over 2,000 students, and we also have the longest history." Not only does the university boast an impressive scale, but according to a joint survey conducted by "Global Review Monthly" magazine and the 104 Job Bank, NYCU's master's graduates in the field of information technology have the highest starting salaries.

There are many factors that can explain this achievement, but Dean Chen believes that the faculty is the key. He uses the field of cybersecurity as an example, mentioning that the college has several professors who specialize in information security and offers dedicated programs without putting their names in the spotlight.

Other factors are close alumni connections and the strategic location of NYCU near the Hsinchu Science Park, where industry and national facilities are easily accessible. Professor Huang Jiun-Long, Head of Department of Computer Science, shares the same sentiment and said: "alumni actively seek opportunities to teach at NYCU without compensation", which is a tangible manifestation of the industry's demand for skilled professionals and their willingness to engage with students early on.

Explained by Dean Chen that because the department has been established over half a century, its alumni have branched out and formed a close-knitted network. They are not only willing to provide job opportunities for current students but also have a sense of ownership, which is why fundraising efforts for building new facilities or supplement professor salaries usually receive enthusiastic responses from alumni.

In recent years, top universities have been striving for

internationalization, and Dean Chen also shares this goal of offering graduate programs entirely taught in English. He hopes that by doing so, they can increase international and exchange students, allow Taiwanese students to align with the international community, and also attract talented individuals from abroad to teach and research in NYCU. "I hope that in a few years when you come to visit again, the dean won't speak Chinese anymore, which would mean we have succeeded", said Dean Chen to a reporter.

## Cross-Domain Collaboration: Embracing Waves, Unfearing Tides

With the increasing rewards in the job market, students' motivation to choose computer science-related programs is also on the rise. Dean Chen believes that there is a high demand for information technology talent in many fields, such as smart healthcare in the medical sector, financial technology in the finance sector, and even interdisciplinary programs within the College of Information, all of which contribute to this growing interest and demand for computer science education.

Professor Wu Yu-Sung, Director of the Master's Program in Information Security, shares that in the early days, when people talked about cybersecurity, they might have thought of computer viruses. However, nowadays, cybersecurity is not limited to just the Internet industry; it extends to fields including finance. He emphasizes that it is not a standalone discipline. Wu further highlights that the program is about to be elevated to a research institute level. "We aim to adopt a platform concept and encourage interdisciplinary collaboration with researchers from various departments within the university", said Wu.

In addition to interdisciplinary collaboration, another major characteristic of the Information Science community is its constant evolution, with subfields experiencing cycles of rise and fall. For instance, artificial intelligence (AI) has gone through periods where government interest waned and businesses divested, enduring more than one winter season.

Prof. Wu believes that as a leading university, NYCU doesn't need to chase every trend. He says: "You shouldn't say that Al is popular now, so all the professors should jump on the wagon." Instead, the focus should be on nurturing students to have ability to ride each wave of technology. He also notes that NYCU has abundant resources and a diverse faculty to nurture students to be the leaders of the future.

Dean Chen also shares that the College is currently recruiting computer science scholars specializing in medical applications due to collaborations with biomedical departments. However, even in less popular areas, there's no need to be concerned because the rapid change in the field; what is today's "niche" area might become mainstream in ten years. At NYCU with academic strengths in technology and bio-medicine, there are ample opportunities for interdisciplinary cooperation within the college and with domestic and international partners. NYCU is promised to excel in innovation and technology-driven bio-medicine and healthcare, where computer and information science shall play a pivotal role.