

## 香港大學暑期研究實習計畫心得 生醫電子與資訊學研究所 高駿平

My 10-week journey in the Summer Research Programme (SRP) at The University of Hong Kong (HKU) was a transformative experience that significantly enriched my graduate studies at National Taiwan University (NTU). The program provided not only an invaluable platform to conduct research alongside esteemed professors but also an opportunity to forge friendships with peers from around the globe. Immersion in a different research culture broadened my horizons and ignited a renewed passion to excel in my field.

During the program, I collaborated with a professor who is also a physician in the Department of Orthopaedics and Traumatology at HKU's medical school to initiate a new research project employing deep learning methods to quantify injuries. My goal was to implement my system within clinical settings. In the initial stages, I faced challenges with the equipment, which led me to collaborate with a professor from the Department of Electrical and Electronic Engineering and her PhD students. This experience underscored the importance of teamwork in research.

The project at HKU was a new venture founded by my advisor and me. Consequently, I devoted significant time to testing its feasibility for clinical use. Although it required extensive hours reviewing papers and textbooks while developing programs, I gained a profound appreciation for academic rigor in research. As this was a pioneering project, my responsibilities included recruiting volunteer participants, collecting data, coding, and integrating the system into clinical ultrasound machines. This research training provided me with a deeper understanding of the development process of medical devices. Frequent collaboration with physicians, professors, and patients made my research more aligned with real-world needs.

In the final two weeks of the program, I was fortunate to complete my work and received recognition from the professors. In essence, my experience at HKU revealed that many dedicated professors and students outside of Taiwan strive for excellence in the biomedical engineering field. I learned that conducting interdisciplinary research not only demands foundational knowledge in various fields but also requires strong communication and teamwork skills. The research training at HKU has enhanced my abilities and will positively impact my graduate studies at NTU.

Throughout the research period, SRP offered various courses that enhanced our research writing and collaboration skills. The program provided opportunities for a research proposal presentation and a final poster presentation, teaching us how to present our work academically. These experiences significantly improved my English fluency and confidence in public speaking. During the presentations, I benefited from

feedback from professors across different departments.

Moreover, SRP organized social activities that allowed us to build friendships with professors and fellow students, such as the Tram Party. At the end of the program, we were invited to a seafood dinner to celebrate our hard work. Although the SRP lasted only 10 weeks, a seemingly short time for a research project, I truly enjoyed working alongside others who were equally committed to completing their research within the limited timeframe. This shared journey helped me form lasting friendships, making SRP an unforgettable experience.

Outside of research, Hong Kong's tourist attractions and cuisine fueled my enthusiasm. Enjoying great food after work and traveling on weekends helped me maintain a healthy work-life balance. The program included students from across the globe, and we often traveled together, sampling various dishes. As a lover of dim sum, especially steamed vermicelli rolls, I visited many renowned restaurants and discovered what I believe to be the best dim sum in the world. I also explored numerous roast goose eateries and became a fan of this iconic dish. Being a milk tea enthusiast, I was fascinated by Hong Kong-style milk tea, especially when paired with a pineapple bun with butter in a local café.

We traveled to places such as Victoria Harbour, Repulse Bay Beach, Lamma Island, Cheung Chau Island, and many other famous districts. The night scenery of Victoria Harbour was particularly captivating; it always relieved my stress. I often walked along the harbor with friends at night, sharing our research experiences. Furthermore, Hong Kong's metro connects to the border with Shenzhen, making it convenient to visit. I also tried Shenzhen's Chaoshan beef hotpot with friends. During these 10 weeks, I believe I visited almost every famous tourist spot in Hong Kong and truly think it is a beautiful place that merges Chinese and Western cultures. To better understand the local culture, I started learning Cantonese and tried to communicate with the people. This journey not only broadened my perspective but also helped me integrate into the local community.

During this brief 10-week program, I was grateful to make friends from China, Hong Kong, Korea, Canada, the USA, the UK, the Netherlands, and NTU, creating lasting memories both academically and personally. I am especially thankful to my advisor at HKU, who guided me in completing my research. His mentorship was instrumental in helping me navigate the challenges of the project. He provided valuable insights, encouraged me when I faced obstacles, and pushed me to think critically. The fact that our work is now on track to be published in a journal and presented at a conference is a testament to the collaborative effort and dedication invested in this project. Lastly, I want to express my heartfelt gratitude to HKU and NTU for their support throughout

this excellent experience.

In conclusion, the SRP at HKU was more than just an academic program—it was a transformative experience that expanded my horizons in countless ways. I returned to NTU with a renewed passion for research, a global network of friends and colleagues, and a deeper appreciation for cultural diversity. The skills and experiences I gained will undoubtedly influence my future endeavors, both professionally and personally. I wholeheartedly recommend this program to other students seeking to challenge themselves and embrace new opportunities.





