

This summer was an invaluable experience in which I gained great insight in many aspects of my life. Not only was it an incredible career opportunity, but the UCTS exchange program also granted me a unique occasion to practice self-sufficiency, leadership, and make close friends out of strangers from all over the world.

Firstly, I want to discuss the wonderful career experience I gained this summer. Thanks to the hard work and guidance of Professor Chin, my advisor Professor Chiao-Hsuan Wang, and the other contributors of the program from Dr. Lu to the NTU Office of International Affairs to the Physics and funding departments at UChicago, I was able to complete my first research project in a field I am pursuing post-graduation. I worked on a project at the forefront of Quantum Information Science. Using formulas previously discovered by my advisor, I alongside my peers and mentor developed new constraint equations for quantum transduction. My advisor was incredibly supportive along with her entire theory group. I grew close with the other members of the group as they showed their hospitality and eagerness to help with any questions or concerns about research, the field, graduate school, or Taiwan in general. Although I struggled through some of the technical aspects of the job at first, Professor Wang was very encouraging and was always willing to adjust our goals based on my progress, prioritizing my understanding of and passion for the project. Additionally, I was welcomed into the group's Journal Club and invited to attend symposiums, research presentations, and summer school intensives within my field. These events greatly broadened my knowledge within Quantum Information, allowed me to make new contacts and friends, and inspired me to continue learning and meeting people within the field. This research experience affirmed my decision to pursue a PhD after graduation.

In addition to my advancements in physics, I must emphasize also the life experience gained from this summer. I am half Taiwanese myself, but I have never been able to experience this level of professionalism or freedom in Taiwan before. I found friendships in and out of the physics building, both Taiwanese and foreign students and people. I took great pride in being able to work and learn in one of the most prestigious universities in Taiwan. I introduced my fellow UChicago students to the Taiwanese culture I was familiar with, and also learned from and with them exploring new cities and sights in Taiwan. We practiced independence while reading, speaking, listening to a foreign language and travelling our way around the country on weekends. We learned more about what young Taiwanese and foreign exchange students thought about their own countries as well as their views on the USA. I also gained valuable insight into what it is like working in academia, and how the dynamics between administration, faculty, students, and outside pressure from industry development are inseparable, thus non-trivial. In short, I attained wisdom that fed my curiosity and broadened my worldview while inspiring me to continue growing and making a positive impact on those around me.

It is the combination of growth in multiple spheres of my life that produced the most memorable summer of my life thus far. I hope to be able to contribute to the continuation of this incredible program as it offers the opportunity for growth and wisdom to UChicago and Taiwanese students for years to come.