



Why study Pharmaceutical Science? And how has the journey been thus far?

Upon completing my Diploma, I found myself drawn to Pharmaceutical Science due to a profound interest in applying classroom knowledge to real-world situations. I have always been keen to explore how scientific principles in Chemistry, Biology, and Pharmacology can be translated into solutions that improve healthcare and quality of life.

Throughout my journey, I have met many like-minded peers, and the collaborative spirit among peers has played a pivotal role in my development. Engaging in group projects and participating in research initiatives such as the NUS Student Work Scheme and my Final Year Project have provided me with practical experience and helped me forge valuable connections that have enriched my education in Pharmaceutical Science.



Leong Wei Jie, Isaac
Year 4 Pharmaceutical Science

What interests you most in your studies?

One course that truly stands out for me is PHS4101 Pharmacokinetics and Biopharmaceutics, which was both challenging and intriguing. This course provided a glimpse into the complexities of what happens after drug administration, showing the intricate processes involved in the absorption, distribution, metabolism, and excretion of drugs. The course really piqued my interest because it gave me a glimpse into the real-world challenges and sophistication of drug action within the body. The professors' passion for the subject was evident and helped us appreciate the true value of the material, making the learning experience both enlightening and engaging.

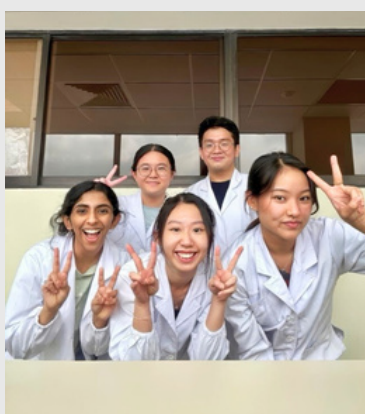
Apart from academic lessons, what other programmes (e.g. UPIP, UROPS, NOC, SEP, Summer/Winter Schools/Research/Internship, etc.) did you participate in? And how did the experience(s) benefit you in your (a) personal growth and development, and (b) academic pursuits?

I have participated in numerous enriching programs that have greatly enhanced my personal growth and academic journey. One standout experience was my internship at the National Parks Board, specifically with the Industry Standards and Regulatory Division. This opportunity provided me with valuable first-hand insights into regulatory processes and considerations, as well as the development and implementation of industry standards to ensure safety and compliance.

I was also involved in the NUS Student Work Scheme – Healthy Campus Initiative under NUS Saw Swee Hock School of Public Health. This experience was particularly significant as it illustrated how public health initiatives align with the objectives of pharmaceutical science. As a pharmaceutical science student, I recognise the importance of effective drug development and delivery systems; however, ensuring a healthy population encompasses more than just treatment—it involves prevention, education, and overall health improvement. Contributing to this initiative broadened my perspective on the role of public health strategies in fostering a healthier society.

Currently, I am working on my Final Year Project under the guidance of Assoc Prof Ho Han Kiat and Dr Ching Jianhong, where I am exploring the effects of nanoplastics on liver health. This project represents a significant milestone in my academic journey, providing me the opportunity to enhance my research skills, critical thinking, and scientific inquiry capabilities. My mentors have cultivated a supportive environment that encourages the sharing of ideas and the proposal of experiments. Their invaluable guidance has been instrumental in refining my research methods and deepening my understanding of the subject matter.

These experiences have been pivotal in shaping my personal development, exposing me to various research methodologies, real-world applications, and the collaborative aspects of working in diverse settings. Academically, they have enriched my practical knowledge and provided me with a comprehensive understanding of how pharmaceutical science can lead to meaningful contributions to society.



My group mates at a laboratory session



Colleagues from NUS Student Work Scheme

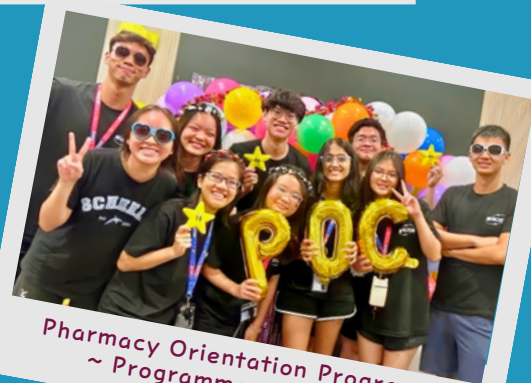


Pharmaceutical Science friends

What other interesting activities did you partake in to further enrich your student life, e.g. extra-curricular activities on campus (e.g. NUSPS, House, etc.)?

I was a member of the programmes committee for the Pharmacy Orientation Programme during my first year in NUS. This experience provided me the opportunity to bond with my peers and form long-lasting friendships.

I am also pursuing a Forensic Science Minor, which has given me the chance to delve into a field that captivates my interest. A standout moment from this minor was the innovative experiential learning format, where I had the chance to examine my own DNA profile. This hands-on experience deepened my understanding of the practical applications and limitations of the science I was studying, enriching my academic journey.



Pharmacy Orientation Programme
~ Programmes Committee



Forensic Science
~ Forensic Human Identification

