

Dear Prof. Dianbo Liu

I hope this email finds you well. My name is Yitong Wang and I am writing to express my interest in the PhD position within your lab.

I am currently pursuing an MRes student at King's College London focusing on Medical AI, with an expected completion by the end of September and formal degree conferral in January next year. My current GPA stands at 72%, and I anticipate graduating with a distinction. Previously, I earned a Bachelor of Engineering degree from South China University of Technology.

I am mainly involved in two research projects in my master's degree, including the ongoing project on analysing loneliness of elderly people through multimodal sensing data, in which my tasks are mainly responsible for the development of transformer-based models and flexibility extension improvement. Previously I was also involved in the development of a thrombus removal robot, including reinforcement learning based navigation and force feedback interactive controller design. In addition to this, I have also been involved in several mobile robots at undergraduate level and **won several awards**, including the development of perceptual systems for multi-sensor fusion. Although I have not yet published, I am preparing to submit my master's research for journal publication by 2025 after further experimentation.

My research interests include applications of artificial intelligence and robotics in medicine and sensing and interaction technologies. Combining my past experiences

and interests, I believe that I am a good match for your lab and would like to join NUS to pursue a PhD.

I have carefully read the previous research on your website and believe that I can be an excellent researcher under your guidance. And Here enclosed my CV. I would be honoured if there is an opportunity to discuss the possibility of joining your team through a TEAMS or ZOOM meeting. And I am happy to provide further information if required.

Kind Regards,

Yitong