



Kaicheng Liang, Ph.D.

Assistant Professor

School of Chemistry, Chemical Engineering and
Biotechnology

Nanyang Technological University

*“Technical and
translational advances
in ultraviolet-C
microscopy”*



Dr. Kaicheng Liang is an assistant professor in the School of Chemistry, Chemical Engineering and Biotechnology at Nanyang Technological University in Singapore. Kaicheng is a Singapore National Research Foundation Fellow (Class of 2021), and has a PhD and MS in Electrical Engineering from the Massachusetts Institute of Technology, and a BS in Biomedical Engineering from Duke University. Kaicheng is passionate about clinically-inspired engineering, and works closely with clinicians, surgeons and pathologists across the country to develop next-generation medical technologies and improve patient lives.

Seminar Abstract: Microscopy with ultraviolet-C illumination is an emerging technique that exploits UV-C's powerful interactions with biological samples, enabling many new and compelling applications in biomedicine and intra-operative guidance. I will review recent innovations in UV-C microscopy, and present work by our group exploring the applications of UV-C microscopy in endoscopic guidance with image interpretation by AI foundation models. I will also introduce opportunities and faculty openings at Singapore's Nanyang Technological University.

Friday, October 24, 2025 | 10:00am EST | Goergen Hall 101

