

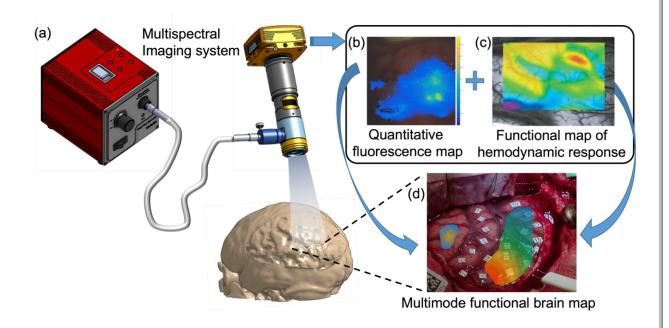


## Optics and Photonics Group Lunchtime Seminar

## "Functional optical imaging for guiding brain surgery"

Yijing Xie

King's College London



## 13:30 Wednesday 08 June 2022 B3 Life sciences building All Welcome

http://optics.nottingham.ac.uk/wiki/seminars\_2022



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MS Teams link

In brain tumour surgery, the surgeon's task is to perform a maximal safe resection. In this context, the tumour tissue is removed as much as safely feasible while the surround brain areas with important functions (e.g. the eloquent cortex) remain mostly preserved. The state-of-the-art functional brain mapping requires awake patient recordings, leading to prolonged surgery time and increased risk, or reliance on pre-operative data, which can become misaligned once the skull is opened. I'm developing optical imaging system to address the emerging need for visualisation of brain functions in real time.