

HANYANG DATA SCIENCE SEMINAR

DATE/TIME 2026.10.22 13:00-15:00 PM

LOCATION 서울시 성동구 왕십리로 222 한양대학교 퓨전테크센터(FTC) 523호



Mitchell B. Robinson, Ph.D.

Instructor at Harvard Medical School and Massachusetts General Hospital (MGH)

Mitchell B. Robinson received his Ph.D. in Medical Engineering and Medical Physics from the Massachusetts Institute of Technology. He is an Instructor of Radiology at Harvard Medical School and a faculty member at the Martinos Center for Biomedical Imaging at Massachusetts General Hospital. His research focuses on developing diffuse optical methods for non-invasive measurement of blood flow with applications in cerebral hemodynamics. He is a member of Optica, SPIE, and the Society for Functional Near-Infrared Spectroscopy.

Title

Assessing cerebral hemodynamics with non-invasive diffuse optical methods

Abstract

Diffuse optical methods enable continuous, non-invasive measurements of cerebral blood flow and oxygenation. This talk will detail several examples of diffuse optical techniques developed at the Massachusetts General Hospital, Athinoula A. Martinos Center for Biomedical Imaging designed to evaluate cerebral hemodynamics in a variety of situations. These methods include near-infrared spectroscopy (NIRS), diffuse correlation spectroscopy (DCS), and speckle contrast optical spectroscopy (SCOS).



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