



**Functional near-infrared spectroscopy (fNIRS)  
Technical Workshop  
11<sup>th</sup> May 2023  
OsloMet, Oslo, Norway**

The workshop gives an introduction to neuroimaging technology functional near-infrared spectroscopy (fNIRS).

**Thursday, 11<sup>th</sup> May 2023**

**Location: Room P35-PI653, OsloMet**

*(Virtual participation: Please use [this Zoom link](#))*

<b>Virtual Participant Connection and Welcome Coffee</b>		<b>08:30 – 09:00</b>
<b>Session 1: Welcome</b>		
<b>1</b>	<b>Welcome note by the Dean of Engineering, OsloMet</b> <i>Presenter: Carl Christian Thodesen, Dean of TKD faculty, OsloMet</i>	<i>10 MINUTES</i> 09:00 – 09:10
<b>2</b>	<b>Introduction to the Workshop, NIRx, and ADEPT research platform</b> <i>Presenter: Peyman Mirtaheer, Oslo Metropolitan University</i>	<i>10 MINUTES</i> 09:10 – 09:20
<b>Session 2: Lectures and Presentation</b>		
<b>3</b>	<b>fNIRS – Tomographic fNIRS. How to with Aurora</b> <i>Presenter: NIRx Medizintechnik GmbH</i>	<i>30 MINUTES</i> 09:20 – 09:50
<b>4</b>	<b>Brain development in infancy</b> <i>Presenter: Ruud van der Weel, Norwegian University of Science and Technology</i>	<i>30 MINUTES</i> 09:50 – 10:20
<b>5</b>	<b>Non-verbal Working Memory: A direct within-subject comparison between fNIRS and fMRI</b> <b>Acting together: fNIRS hyperscanning in real-life environments</b> <i>Presenter: Karsten Specht, University of Bergen</i>	<i>30 MINUTES</i> 10:20 – 10:50
<b>6</b>	<b>Synchronising iPhone Video Recordings with fNIRS using Lab Streaming Layer</b> <i>Presenter: Ryan McCardle, University of Bergen</i>	<i>15 MINUTES</i> 10:50 – 11:05
<b>Group Photo and Coffe Break</b>		<i>25 MINUTES</i> 11:05 – 11:30

Session 2: Lectures and Presentation		
7	<b>fNIRS research activities under ADEPT OsloMet</b> <i>Presenter: Peyman Mirtaheeri/Haroon Khan</i>	30 MINUTES 11:30 – 12:00
8	<b>Topic: A journey of multidisciplinary, multifaceted fNIRS research</b> <i>Presenter: Pasi Aalto/ Henrikke Dybvik, Norwegian University of Science and Technology</i>	30 MINUTES 12:00 – 12:30
9	<b>Statistical Considerations in the Design of Gait and Balance experiments</b> <i>Presenter: Prof. Hernendo Ombao, King Abdullah University of Science and Technology</i>	20 MINUTES 12:30 – 12:50
10	<b>Peering into translators brain with fNIRS</b> <i>Presenter: Meng-Yun Wang, University of Bergen</i>	15 MINUTES 12:50 – 13:05
<b>Lunch (Room - P35-PI653)</b>		60 MINUTES 13:05 – 14:05
Session 3: Hands-on session		
11	<b>A journey of multidisciplinary, multifaceted fNIRS research</b> <i>Presenter: Henrikke Dybvik, Norwegian University of Science and Technology</i>	30 MINUTES 14:05 – 14:35
12	<b>Future approaches in fNIRS</b> <i>Presenter: NIRx Medizintechnik GmbH</i>	15 MINUTES 14:35 – 14:50
13	<b>Data acquisition, visualization, and analysis</b> <i>Presenter: NIRx Medizintechnik GmbH</i>	70 MINUTES 14:50 – 16:00
14	<b>Panel discussion and coffee</b> <i>Panel leader: Peyman Mirtaheeri</i>  <b>Closing Remarks</b>	30 MINUTES 16:00 – 16:30