



Summer School: Hands-on fNIRS data analysis for fundamental, applied & clinical research



Dates Monday, August 2nd 2021 - Friday, August 6th 2021
Location University of Tuebingen, Schleichstr. 4, Tuebingen, Germany
or hybrid/ virtual event (if in-person-meetings will not be possible)

Summer School Topic

Using light to understand how the brain works is the idea of the optical imaging technique functional near-infrared spectroscopy (fNIRS). In various neuroscientific disciplines, fNIRS research has found plentiful adoption in fundamental and applied scientific paradigms, with increasing numbers of publications every year. Although fNIRS research gets increasingly more attention, the analysis of fNIRS data is not yet standardized. Therefore, the planned Summer School sets out to introduce basic and advanced analysis methods for fNIRS data theoretically and teach these methods in hands-on sessions by experts. Furthermore, the Summer School will serve as a platform to address fNIRS-specific challenges and solutions, and to give early career researchers the opportunity for networking within the fNIRS community.

Keynotes

Sabrina Brigadoi	Vanessa Reindl
Simone Cutini	David Rosenbaum
Ann-Christine Ehlis	Felix Scholkmann
Andreas J. Fallgatter	Meryem Yücel
Hellmuth Obrig	Alexander von Lühmann

Participants 30-50 early career researchers (PhD students, postdoctoral researchers).

Fields Cognitive/ Educational Neuroscience, Clinical/ Developmental Psychology, Engineering

Format Summer school with lectures and hands-on sessions by experts, meet-the-expert sessions and data blitz for early career researchers

Selected Topics Theory of functional near-infrared spectroscopy (fNIRS), experimental designs & data collection, data analysis: preprocessing steps & statistical analysis of fNIRS data, application of fNIRS in specific populations, combining fNIRS with other methods, historic & future developments

Registration Until April 30th under the following link:
https://docs.google.com/forms/d/e/1FAIpQLSdMBHWIiv64XGWi2ETo7AD3LKU6DnDKiRL7wVFfUI7vyG9_iw/viewform

Confirmations will be sent out by May 21st.

Costs There is no registration fee.

Accommodation Accommodation will be funded for 10 early career researchers.

Contact <https://uni-tuebingen.de/de/202162>

fnirs-summer school@psycho.uni-tuebingen.de

Organization Christina Artemenko, Philipp A. Schroeder, Thomas Dresler, Maryam Farshad, Yun-Feng He, Hendrik Laicher, Hannah D. Loenneker, Lorenzo Semeia

Funded by



Baden-Württemberg

MINISTERIUM FÜR WISSENSCHAFT, FORSCHUNG UND KUNST