# The fNIRS Glossary Project

**Katharina Stute[1], Louisa Gossé[2], Samuel Montero-Hernandez[3], Guy Perkins[4], Meryem A. Yücel[5]**

*[1]Chemnitz University of Technology, Faculty of Behavioural and Social Sciences, Institute of Human Movement Science and Health, Chemnitz, Germany; [2]Birkbeck, University of London, Department of Psychological Sciences, London, United Kingdom; [3]Department of Engineering Technology, University of Houston, Houston, USA; [4]Sci-Phy-4-Health Centre for Doctoral Training & School of Computer Science, University of Birmingham, Birmingham, United Kingdom; [5]Boston University, Neurophotonics Center, Biomedical Engineering, Boston, Massachusetts, United States*

The fNIRS Glossary project is intended to develop a community-sourced glossary of terms relating to fNIRS including the paradigms of continuous-wave (CW), frequency domain (FD) and time domain (TD) NIRS and related symbols via a consensus-based methodology.

## BACKGROUND

- A common understanding of terminologies is essential at all stages of the research process to facilitate effective scientific communication and to avoid confusions and/or misconceptions
- This is particularly challenging in rapidly expanding, international fields such as the fNIRS community that includes researchers with different backgrounds and fields of applications

## GOAL

The glossary is intended to:

- **clarify terminologies**, including where terms are used differently/interchangeably
- provide a **resource for new researchers** entering the field
- aid newcomers and experts to **communicate efficiently** through a common understanding of terminologies

## METHODS

- The project will follow a **consensus-based methodology** to clarify terminologies and to agree on definitions for frequently used terms

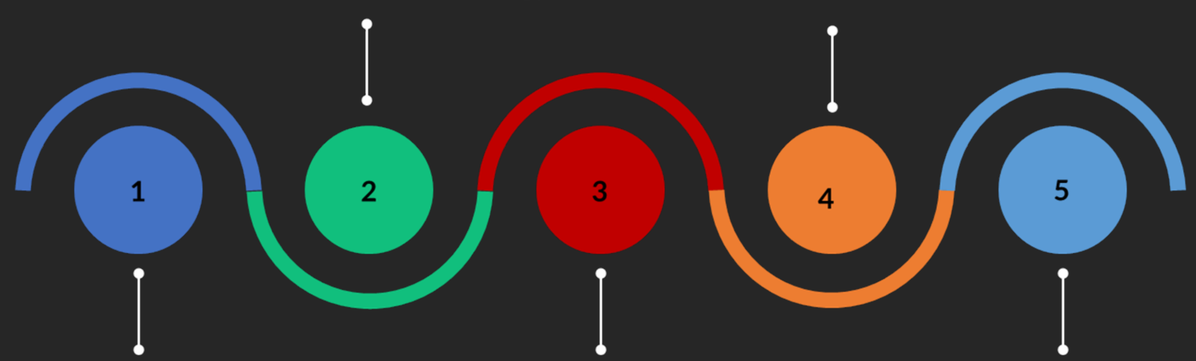
## HOW CAN I CONTRIBUTE?

- Possible contributions consist of but are not limited to adding terms and drafting definitions, commenting on existing definitions, adding alternative definitions where applicable, and suggesting relevant references

## AUTHORSHIP

- All contributions will be acknowledged by means of the CRediT statement [1]
- All contributors will be invited as co-authors to the fNIRS Glossary Project manuscript which we plan to submit to Neurophotonics

## PROJECT TIMELINE




**Drafting definitions**

*This phase **(October, 12th – December, 7th)** serves to add terms, draft the definitions, add references, etc.*

**Review & editing**

*This phase **(December, 8th – February, 2nd)** serves to review and edit existing definitions on a consensus-based methodology*

**Community feedback**

*All co-authors will be asked to give feedback and to approve the manuscript for submission until **July, 14th***

**Manuscript preparation**

*The lead writing team will prepare the manuscript until **June, 30th***

**Submission**

*The lead writing team will submit the manuscript to Neurophotonics until the end of **August 2023***

# Join us!

Interested in contributing?
Join us by scanning the QR code

fNIRS 2022
October 9-12, Boston, MA

## QUESTIONS?

**Learn more:**
https://fnirsglossaryproject.github.io/
**Contact us:**
fnirsglossaryproject@gmail.com

## ACKNOWLEDGEMENTS

This project is inspired by the Glossary Project of the Framework for Open and Responsible Research Training (FORRT). [2]

## REFERENCES

[1] Holcombe AO, Kovacs M, Aust F, Aczel B. Documenting contributions to scholarly articles using CRediT and tenzing. PLoS One. 2020;15(12):e0244611.
[2] Parsons S, Azevedo F, Elsherif MM, et al. A community-sourced glossary of open scholarship terms. Nat Hum Behav. 2022;6(3):312-318.