



Prof Ilias Tachtsidis (co-chair) – Professor of biomedical engineering and an expert in neuroimaging and optical methods. He is a senior member of the Biomedical Optics Research Laboratory and leads the MultiModal Spectroscopy group at University College London.

#### [fNIRS- Reliability Network Members](#)

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Dr. Paola Pinti (**co-chair**) – Senior Research Laboratory Developer at Birkbeck, University of London, and Honorary Research Associate at University College London, UK. Expert in the use of fNIRS to study brain activity from infancy to adulthood as well as algorithm development and data analytics.



Dr. Chiara Bulgarelli (**co-chair**) - Leverhulme Trust Early Career Research Fellow at Birkbeck, University of London, UK. Expert in the use of fNIRS to study brain development from infancy to toddlerhood as well as in fNIRS-based functional connectivity methods.



Prof. Lauren Emberson – Associate Professor at University of British Columbia, Canada. Expert in the use of fNIRS to study brain development in preterm babies and young infants as well as data analytics and standardization.



Dr. Frédéric Lange – Senior Research Associate at University College London, UK. Expert in NIRS hardware development and testing, phantoms, as well as application of optical technologies on developmental populations.



Dr. Sarah Lloyd-Fox – Research Fellow at University of Cambridge, UK. Expert in optimising fNIRS for use with developmental populations as well as develop field-friendly neuroimaging and behavioural toolkits for use in low income settings.



Dr. Alexander von Lühmann – Head of the “Intelligent Biomedical Sensing (IBS) Lab” at BIFOLD, TU Berlin, Germany. Expert in NIRS hardware development, data analytics and machine learning, as well as in standardization of fNIRS practices



Prof. Sobana Wijekumar – Assistant Professor at University of Nottingham, UK. Expert in fNIRS data analysis and application of fNIRS to study brain development across the lifespan and in rural settings.

#### EEG – Reliability Network Members

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**Lorenzo Fabrizi (co-chair)** represents the Infant Pain and Somatosensory Imaging (IPSI) group at University College London. He is an expert in the functional analysis of somatosensory and pain processing in the preterm human brain. He is a Medical Research Foundation Fellow and leads a multi-disciplinary group including bioengineers, neuroscientists and clinicians. Email: [l.fabrizi@ucl.ac.uk](mailto:l.fabrizi@ucl.ac.uk)



**Kimberley Whitehead (co-chair)** represents her EEG group, which will be based within the Applied Technologies for Clinical Care research division at King’s College London from September 2023. She is a Clinical Scientist in Neurophysiology, and has a special interest in sleep-wake cortical activity after acquired fetal and neonatal brain injury. Email: [k.whitehead@ucl.ac.uk](mailto:k.whitehead@ucl.ac.uk)



**Ross E Vanderwert** is a developmental scientist at Cardiff University representing the Tiny to Tots research group. He studies how early experiences shape brain development and function with an interest in how motor systems facilitate social cognition.

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**Tracy Warbrick** represents Brain Products GmbH, Gilching, Germany. As head of Education and Scientific Communication, working with research scientists and clinicians to optimise EEG applications is a high priority for Tracy. Her research background is in multimodal brain imaging, and she has a specific interest in simultaneous EEG-fMRI.

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**Helene Vitale** represents the U-VIP Unit (PI Monica Gori), based at the Italian Institute of Technology Genoa, Italy, since 2018. She is a Neurophysiologist and expert in EEG in sighted and blind infants. She is interested in sleep-wake cortical activity and the role of vision in it.

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#### [MRI/fMRI – Reliability Network Members](#)

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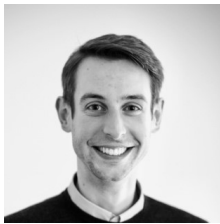
**Jonathan O'Muircheartaigh (co-chair):** Jonathan O'Muircheartaigh is a Reader in Developmental Neuroimaging at King's College London with experience in acquiring and analysing MRI data from the fetal to childhood period. His focus is on conditions that can alter neurodevelopment such as epilepsy and prematurity.



**Jennifer Cooke (co-chair):** Jennifer Cooke is a research fellow working on the Synaptic Gene Study within AIMS-2-TRIALS at King's College London. My main areas of interest are identifying neurocognitive markers with MRI linked to behavioural traits, improving the accessibility and accuracy of clinical and research assessment in those with severe intellectual disability, and assessing and improving mental health outcomes in those with severe intellectual disability.



**Francesca Biondo** is a postdoctoral research associate at University College London. She investigates brain development in international cohorts of infants and toddlers, focusing especially on early deprivation on later development. Her work encompasses both conventional MRI (at 3 tesla field strengths) but also new low-field systems from infancy through to early childhood.



**Emil Ljungberg:** Emil Ljungberg is an MRI physicist working at Lund University, Sweden. He holds an MSc in Medical Physics from the University of British Columbia, Vancouver, Canada, and a PhD in Neuroimaging physics from King's College London, UK. His work focuses on development of MRI pulse sequences and analysis methods for quantitative MRI imaging, and specifically for portable low-field MRI systems. In his current position he coordinates technical development and quality assurance methods in an international consortium dedicated to imaging the developing brain. In 2023 Dr Ljungberg was awarded Junior Fellow of the ISMRM, the largest international society for MRI in medicine, for his scientific achievements and leadership in the field of MRI.