

Day 1

9.30 – 9.45 Course Introduction

S1 9.45 – 11.00 NIRS Theory, History and Principles

S2 11.00 – 11.30 NIRS Technology

11.30 Coffee break

P1 12.00 - 12.30 Practical 1 (system and phantom test)

S3 12.30 – 1.30 NIRS in Clinical Research

1.30 – 2.30 LUNCH

S4 2.30 – 3.45 Functional NIRS Research

3.45 Coffee break

S5 4.00 – 5.00 Probe design (hardware/practical session)

6:00 Dinner
Pescatori, Seafood Restaurant (57 Charlotte St, W1T 4PD).

Day 2

S6 9.00 – 9.30 Study design, setup and introduction to practical

S7 9.30 – 10.30 Data Analysis I: Introduction to Homer2

10.30 Coffee break

P2 11.00 – 1.00 Practical 2

In Parallel separate sessions:

P2.1: Infant demonstration (in B10, Henry Wellcome Building)

P2.2: Adult demonstration (in B09, Henry Wellcome Building)

P2.3: Polhemus and laptop check (in B13, Henry Wellcome building)

1.00 – 2.00 LUNCH

- S8 2.00 – 3.30 Data Analysis II: Motion Artifacts
- 3.30 Coffee break**
- S9 4.00 – 5.00 Data Analysis III: Physiological Noise, Short Separation Regression and GLMs

Day 3

- S10 9.30 – 10.30 Co-registration to Anatomy and Image Reconstruction; Atlas Viewer
- S11 10.30 – 11.30 Data Analysis IV: Statistical Analyses (step by step at CBCD, other software, multiple comparisons)
- 11.30 – 12.00 Coffee break**
- 12.00 – 1.00 Guest Lecture by Dr. Judith Meek (UCLH)
- 1.00 – 1.30 DISCUSSION: Look to the Future and Conclusions

All sessions are taking place in G02, 43 Gordon Square, apart from Practical 2 [P2] sessions which are taking place in B09, B10, B13, Henry Wellcome Building, Centre for Brain and Cognitive Development.