fNIRS Course - Martinos Center for Biomedical Imaging - Nov 1-3, 2017 - Preliminary agenda

DAY 1 – November 1st

9:00 – 10:30 am	**NIRS introduction** – Lecture
10:30 – 11:15 am	**Hands-on A** – Cuff occlusion with various instruments (CW-NIRS, FD-NIRS, DCS)
11:15 – 11.30 am	**Break**
11:30 – 12:45 pm	**fNIRS overview** – Lecture
12:45 – 1:30 pm	**Lunch**
1:15 – 2:00 pm	**Computer testing**
2:00 – 3:00 pm	**Data analysis** – Basic steps demonstrated with Homer2
3:00 – 5:00 pm	**Hands-on B and C** – 3D-digitizer and fNIRS experiments (4 groups):
	Hands-on B (1 hour) – Digitizing probe locations
	Hands-on C (1 hour) – fNIRS data acquisition during finger tapping task
6 pm	**Dinner**

DAY 2 – November 2nd

9:00 – 10:30 am	**Short separation regression and GLM** – Lecture and exercise
10:30 – 10:45 am	**Break**
10:45 – 12:15 pm	**Motion Artifacts** – Lecture and exercise
12:15 – 1:00 pm	**Lunch**
1:00 – 3:00 pm	**Exercise: Data analysis –** Finger-tapping data, data from course participants
3:00 – 3:30 pm	**Exercise: Data analysis –** Result presentation
3:30 – 3:45 pm	**Break**
3:45 – 5:30 pm	**Application Talks:** TBA
5:30 – 5:45 pm	**Homework assignment** – Homer2 analysis in preparation of Day 3 session
6:00 – 7:30 pm	**Working dinner** – Homework + Continuing analysis of data from participants

DAY 3 – November 3rd

9:00 – 10:00 am	**Atlas Guided Analysis** – Lecture
10:00 – 10:15 am	**Probe design: hardware** – Lecture
10:15 – 10:30 am	**Break**
10:30 – 11:30 am	**Probe design: software** – Lecture
11:30 – 12:30 pm	**Exercise: Probe design**
12:30 – 1:30 pm	**Lunch**
1:30 – 2:30 pm	**Exercise: Probe repeatability and comparison with target design**
2:30 – 4:30 pm	**Exercise: Image Reconstruction**
4:30 – 5:00 pm	**Wrap up**