

Workshop Program (with corresponding PDFs)

Purple lettering = lecture

Orange lettering = tutorial

MONDAY, JUNE 17th

Optional pre-workshop symposium on BIDS - Brain Imaging Data Structure - for MRI, fMRI and EEG

Location: Main conference room, Pavillon Baudot, Purpan Hospital, Toulouse ([directions available here](#))

Registration: This event is free for all

Symposium moderator: Scott Makeig

13:00-13:10 - Introduction to the Symposium - Scott Makeig

13:10-14:40 - What is BIDS? - Cyril Pernet

13:40-14:10 - BIDS EEG - Robert Oostenveld

14:10-14:30 - EEGLAB and BIDS - Arnaud Delorme

14:30-14:50 - BIDS for MRI and fMRI - how to use BIDS in laboratory settings to organize data - Leila Reidy

14:50-15:00 - General BIDS discussion with all panel members

16:30 -- Toulouse train station shuttle bus pick up

17:00 -- Toulouse airport shuttle bus pick up

19:45 -- Dinner in Aspet (included in registration)

20:45 – 21:30 -- Optional beginner Matlab course by Ramon Martinez

TUESDAY, JUNE 18th

7:00 - 8:30 Breakfast

Overview and ICA Theory/Practice

8:30 – 9:45 -- Mining event-related brain dynamics I (Scott Makeig) [PDF](#)

9:45 – 10:15 -- EEGLAB overview (Arnaud Delorme) [PDF](#)

-- Break--

10:30 – 11:30 -- ICA theory (Scott Makeig) [PDF](#)

11:30 – 12:30 -- Data import, Artifact rejection (Tracy Brandmeyer) [PDF](#)

12:30-13:45 Lunch --

ICA and time-frequency

13:45 – 15:15 -- ICA decomposition practicum (Arnaud Delorme) [PDF](#)

15:15 – 15:45 -- Bootstrapping ICA and using PCA before ICA (Fiorenzo Artoni)

-- Break--

16:00 – 17:00 -- Time-frequency decompositions: Theory and practice (Tim Mullen) [PDF](#)

17:00 – 17:30 -- Phase amplitude coupling (Ramon Martinez) [PDF](#)

19:45 -- Dinner

[Wednesday, June 19th](#)

7:30 - 8:30 Breakfast

Group analysis and ICA clustering in EEGLAB

8:30 - 9:00 -- Why cluster ICA components? (Scott Makeig) [PDF](#)

9:00 - 9:45 -- Bootstrap and correction for multiple comparisons (Cyril Pernet) [PDF](#)

-- Break--

10:45 - 11:45 -- Creating a STUDY and STUDY design - plotting and computing statistics in channels (Arnaud Delorme) [PDF](#)

11:45 - 12:45 -- ICA component clustering and plotting (Arnaud Delorme) [PDF](#)

12:45-13:45 Lunch --

13:45-18:00-- Hiking excursion

19:45 -- Dinner

THURSDAY JUNE 20th

7:30 - 8:30 Breakfast

Source Localization

8:30 – 9:30 -- Forward and inverse models - the Dipfit tools (Robert Oostenveld) [PDF](#)

9:30 – 10:00 -- Using the Dipfit plugin of EEGLAB (Arnaud Delorme) [PDF](#)

-- Break--

General Linear Modeling

10:15 – 12:30 -- Theory and practice of applying general linear models to EEG data using the LIMO EEGLAB plug-in (Cyril Pernet) [PDF](#)

12:30-13:45 Lunch --

Source information flow

13:45 – 15:30 -- Source information flow and Granger-Causal modeling tools (Tim Mullen) [PDF](#)

15:45 – 17:30 -- SIFT toolbox: practicum (Tim Mullen) [PDF](#)

19:45 -- Dinner

FRIDAY JUNE 21

7:30-8:30 -- Breakfast

8:30 – 10:00 -- Mining event-related brain dynamics II (Scott Makeig) [PDF](#)

-- Break--

10:15 – 11:30 -- Practicum, small group projects

11:30 – 12:00 -- Participant project presentations and general discussion [List of projects](#)

12:15 -- Lunch

13:00 -- Airport/train station shuttle bus leaves Bois Perche

Between 14:15 and 14:45 -- Toulouse/Blagnac Airport

Between 14:30 and 15:15 -- Toulouse Matabiau train station