

Schedule: Short Course on:

Statistical Parametric Mapping 2007

(Presented by the Wellcome Trust Centre for Neuroimaging)

May 17 (Thurs) - 19 (Sat) 2007

The course will present instruction on the analysis and characterisation of functional imaging data. This includes the following modalities: functional Magnetic Resonance Imaging (fMRI), Electro-encephalography (EEG) and Magneto-encephalography (MEG). The three-day course will be divided into **theoretical** sessions covering experimental design and statistical inference and **practical** sessions in which SPM will be used to analyse exemplar data sets.

Thursday 17th May

Theoretical sessions

9.30 - 9.45 Introduction and Overview
Karl Friston

9.45 - 10.45 Image Registration
John Ashburner

Coffee

11.00 - 11.45 The General Linear Model
Klaas Stephan

11.45 - 12.30 Contrasts and Classical Inference
Jean-Baptiste Poline

Lunch

13.30 - 14.00 Group Analysis
Will Penny

14.00 - 14.45 Random Field Theory
Tom Nichols

Tea

Practical sessions

15.15 - 16.15 Introduction to spatial processing
John Ashburner and Guillaume Flandin

16.15 - 17.00 Introduction to fMRI analysis
Hanneke Den Ouden and Christophe Phillips

17.00 - 18.00 Clinic
Karl Friston

Friday 18th May

Theoretical sessions

09.30 – 10.15 Experimental design
Christian Ruff

10.15 - 11.00 Event-related fMRI
Will Penny

Coffee

11.15 - 11.45 Bayesian Inference
Jean Daunizeau

11.45 - 12.30 EEG/MEG Source Localisation
Jeremie Mattout and Christophe Phillips

Lunch

13.30 – 14.00 Dynamic Causal Modelling for fMRI
Andre Marreiros

14.00 – 14.30 Dynamic Causal Modelling for ERP/ERFs
Stefan Kiebel

Practical sessions

14.30 - 15.30 Event-related fMRI analysis
Tom Nichols and Guillaume Flandin

Tea

16.00 - 16.30 Dynamic Causal Modelling for fMRI
Klaas Stephan and Lee Harrison

16.30 - 17.00 Dynamic Causal Modelling for ERP/ERFs
Marta Garrido and Stefan Kiebel

17.00 - 18.00 Clinic
Karl Friston

Saturday 19th May

Practical sessions

10.00 - 10.30 Introduction to practical sessions
Will Penny

10.30 – 14.30 **Parallel practical sessions**

These sessions will cover the following topics:

Voxel-based Morphometry
John Ashburner and Christophe Phillips

Basic analysis of fMRI
Guillaume Flandin and Sara Bengtsson

Basic analysis of fMRI
Uta Noppeney and Justin Chumbley

Advanced analysis of fMRI
Christian Ruff and Carlton Chu

Advanced analysis of fMRI
J.-B. Poline and Marcus Gray

Dynamic Causal Modelling for fMRI
Klaas Stephan and Felix Blankenberg

Dynamic Causal Modelling for fMRI
Lee Harrison and Andre Marreiros

M/EEG analysis
Stefan Kiebel, CC Chen and Jean Daunizeau

M/EEG analysis
Marta Garrido, James Kilner and Jeremie Mattout

14.30 – 16.00 Summary session
(Group representatives will give mini-presentations on what they've learnt)
Karl Friston