

Statistical Parametric Mapping Short Course 2011 Covering SPM8 for fMRI, MRI/VBM and PET

Presented by the Wellcome Trust Centre for Neuroimaging

Thursday 12th May – Saturday 14th May 2011, Queen Square

The course will present instruction on the analysis and characterisation of neuroimaging data. This includes Magnetic Resonance Imaging (MRI), functional MRI (fMRI), and Positron Emission Tomography (PET). 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. The course is suitable for both beginners and more advanced users. We advise students to gain at least some familiarity with the methodology, for example, from reading introductory articles available from the SPM web page:

<http://www.fil.ion.ucl.ac.uk/spm/doc/intro/>.

Thursday 12 th May	THEORETICAL SESSIONS	33 Queen Square Basement Lect Th
09:15 – 09:30	Welcome	Ged Ridgway
09:30 – 10:15	Introduction and Overview	Karl Friston
10:15 – 11:15	Spatial Preprocessing	Ged Ridgway
	<i>Coffee</i>	
11:30 – 12:15	The General Linear Model	Christophe Phillips
12:15 – 13:00	Contrasts and Classical Inference	Jean-Baptiste Poline
	<i>Lunch</i>	
14:00 – 14:30	Group Analysis	Will Penny
14:30 – 15:15	Random Field Theory & Alternatives	Tom Nichols
	<i>Tea</i>	
	PRACTICAL DEMONSTRATIONS	33 Queen Square
15:30 – 16:15	Preprocessing for fMRI	John Ashburner
16:15 – 17:00	Introduction to fMRI Analysis	Christophe Phillips
17:00 – 18:00	“Questions and Answers” Clinic	Karl Friston

Friday 13th May THEORY & PRACTICALS 33 Queen Square

09:30 – 10:15	Experimental Design	Sara Bengtsson
10:15 – 11:15	Event-related fMRI – Theory	Christian Ruff
<i>Coffee</i>		
11:30 – 12:15	Event-related fMRI – Practical	Steve Fleming
12:15 – 13:00	Bayesian Inference	Jean Daunizeau
<i>Lunch</i>		
14:00 – 14:45	Voxel Based Morphometry	John Ashburner
14:45 – 15:30	Dynamic Causal Modelling for fMRI	Klaas Enno Stephan
<i>Tea</i>		
16:00 – 16:45	DCM for fMRI – Practical	Andre Marreiros
16:45 – 17:15	DCM for fMRI – Advanced Topics	Klaas Enno Stephan
17:15 – 18:00	“Questions and Answers” Clinic	Karl Friston
<i>Social Event</i>		

**Saturday 14th May PRACTICAL WORKSHOPS 12 Queen Square
4th Floor Sem Rm**

10:00 – 10:30	Introduction; Allocation of Groups	Ged Ridgway
10:30 – 15:30	<i>One of the following parallel sessions:</i>	
	1. PET Data Analysis	Christophe Phillips
	2. Voxel Based Morphometry	John A. & Chris Lambert
	3. Basic Analysis of fMRI	Guillaume F. & Sara B.
	4. Intermediate Analysis of fMRI	Jean-Baptiste Poline
	5. Intermediate Analysis with Batches	Volkmar Glauche
	6. Advanced Analysis of fMRI	Christian Ruff
	7. Advanced Analysis with PPMs	Will Penny
	8. Group Analysis of fMRI	Jean D. & Irma Kurniawan
	9. Dynamic Causal Modelling for fMRI	Andre M. & Yen Yu
<i>Coffee</i>		
16:00 – 17:00	Feedback presentations (1 slide only)	Volunteer participants