

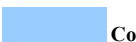











2010		Multi Modal Short Course					Athinoula A. Martinos Center for Biomedical Imaging								
		Week 1 : May 17-21, 2010					Weekend		Week 2 : May 24-28, 2010						
Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Time	Monday	Tuesday	Wednesday	Thursday	Friday		
8:00 AM - 8:30	WELCOME	breakfast	breakfast	breakfast	breakfast			8:00 AM - 8:30	breakfast	breakfast	breakfast	breakfast	breakfast		
8:30 AM - 9:00								8:30 AM - 9:00							
9:00 AM - 9:30	Program Overview {Savoy}	Data Analysis: Simple Example: General Linear Model (GLM); Opt. Im. Acq. & Preprocessing (Savoy)	Low Field MR {Matt Rosen}	DTI: Diffusion Tensor Imaging	Part 2 of FreeSurfer / FSFast Tutorial and Workshop			Get Ready	9:00 AM - 9:30	NIRS/DOT Technology Applications, Tour, Demo, Experimental Design and Data Analysis {Maria Angela Franceschini; David Boas}	RLS Intro to PET	Neuroimaging in Cognitive Impairment {Brad Dickerson}	Class Selected Discussion Topics: e.g., Neuroscience of Moral Decision Making; NeuroEconomics		
9:30 AM - 10:00														9:30 AM - 10:00	
10:00 AM - 10:30	Tools Overview		Event Related Designs {Doug Greve}	Connectivity {Whitfield-Gabrieli}	Statistics and Group Studies of Structural Data			3 Hours Running MEG Experiments	10:00 AM - 10:30		2D, 3D, TOF?; PET {Devous}	fMRI and DTI in Presurgical Planning {Brad Buchbinder}	SYMPOSIUM Translational and Other Clinical Issues (Devous, Rosen, et al.)		
10:30 AM - 11:00														10:30 AM - 11:00	
11:00 AM - 11:30	Bruce Rosen Director of Athinoula A. Martinos Center	Experimental Task Design in fMRI {Savoy}	Computational Neuroanatomy {Bruce Fischl}	DSI: Diffusion Spectrum Imaging {Van Wedeen}				3 Hours Running fMRI Experiments	11:00 AM - 11:30		phMRI, PET {Jenkins}	MEG in Clinical Neuroimaging {Stufflebeam}	Cortical Electrodes in Diagnosis and Surgery {Syndey Cash}		
11:30 AM - 12:00														11:30 AM - 12:00	
12:00 PM - 12:30	Overview of Functional MRI {Savoy}		MultiVariate Analysis {Savoy}						12:00 PM - 12:30		Biomarkers in FNI Michael Devous	MRS, MRSI & Clinical Apps. {Ratai}	Diplomas and Farewell Savoy		
12:30 PM - 1:00														12:30 PM - 1:00	
1:00 PM - 1:30	Design Workshop								1:00 PM - 1:30				lunch		
1:30 PM - 2:00														1:30 PM - 2:00	
1:30 PM - 2:00	lunch	lunch	lunch	lunch	lunch	Free Day, Perhaps with optional planned cultural and/or fun things to do in the Greater Boston area.	10am - 4pm	1:30 PM - 2:00	lunch	lunch	lunch	lunch			
2:00 PM - 2:30	NMR/MRI: Signals and Contrasts {Wald}	EEG/MEG Key Concepts for Functional Brain Mapping Laboratory Tours and Demonstrations maybe 7T+EEG {Hämäläinen, Bonmassar}	TMS {Alvaro Pascual-Leone; Joan Camprodon; Tommi Riaj}	Part 1 of FreeSurfer / FSFast Tutorial and Workshop	Part 3 of FreeSurfer / FSFast				2:00 PM - 2:30	Optical Microscopy {Lichtman}	The Brain's Default Network Randy Buckner	Alzheimer's Disease and MultiModal Approaches Randy Buckner	Matti will Discuss the MEG Data from Sunday		
2:30 PM - 3:00														2:30 PM - 3:00	
3:00 PM - 3:30	NRM/MRI: Imaging, Artefacts, & Safety {Wald}		Tour of MR Facilities Collect Structural Data {Savoy, Foley}	Reconstructing a single subject's brain	FS/Fast: The Functional Analysis Stream				3:00 PM - 3:30		MRI/fMRI: Advanced Issues and Review of Basics {Wald, Savoy}	Quality Control in fMRI Data Analysis {Whitfield-Gabrieli}	Student Presentations; Post-Workshop Discussion		
3:30 PM - 4:00														3:30 PM - 4:00	
4:00 PM - 4:30	Experimental Design Theory and Practice for EEG/MEG {Maria Mody}	The Design Workshop Savoy							4:00 PM - 4:30	Analysis of Sunday's Experiments with Doug Greve (4-5) & Class (5-6)					
4:30 PM - 5:00														4:30 PM - 5:00	
5:00 PM - 5:30	walk to restaurant	Dinner in Atrium Cafe		Dinner in Atrium Cafe					5:00 PM - 5:30						
5:30 PM - 6:00														5:30 PM - 6:00	
6:00 PM - 6:30	Class Dinner At Figs in Charlestown	Design of EEG/MEG and fMRI Experiments		Design of EEG/MEG and fMRI Experiments					6:00 PM - 6:30				Informal Class Dinner at "Maluken", a Japanese Restaurant (with Karaoke!) in Kenmore Square (Boston)		
6:30 PM - 7:00														6:30 PM - 7:00	
7:00 PM - 7:30	Design of EEG/MEG and fMRI Experiments								7:00 PM - 7:30						
7:30 PM - 8:00														7:30 PM - 8:00	
8:00 PM - 8:30	Robert Savoy Time Brady and others								8:00 PM - 8:30						
8:30 PM - 9:00														8:30 PM - 9:00	
9:00 PM - 9:30	Class Dinner At Figs in Charlestown	Design of EEG/MEG and fMRI Experiments							9:00 PM - 9:30						
9:30 PM - 10:00														9:30 PM - 10:00	
10:00 PM - 10:30									10:00 PM - 10:30						

	Social		EEG/MEG		Cortical Electrodes		Special Topic
	fMRI (and MRI and Statistics)		NIRS/DOT		phMRI/PET		Lab/Hands-on
	Clinical; DTI/DSI, MRS/MRSI		Future Resolution		TMS		Administrative

LOCATIONS: All lectures will be in the Building 75 conference room, unless otherwise announced during the program.

"TENTATIVENESS": Last minute changes in scheduling or speakers is rare, but does sometimes happen.

AUDITORS: Martinos members may audit the lectures, but not tours, dinners, laboratories, evening design workshops.

VIDEO RECORDING: Video recording of many of the lectures is planned.

 (tentative)