

Note: "In Person" and "Virtual".

Dinners are included for the in-person participants during the evening experimental design workshops on Tuesday and Wednesday

Monday (General Introduction to All of fMRI; Virtual Tour)

8:00 - 9:45	- A, B -	Overview of the Program and fMRI-Based Experiments	Robert Savoy
10:00 - 12:30	- C -	Basics of NMR and MRI: Sources of Signal and Contrast; Image Acquisition; Contrast and Tradeoffs; Safety, HRC/IRB Considerations <i>(with a short break)</i>	Robert Savoy
12:30 - 1:30		<i>Lunch</i>	
1:30 - ~2:15		Participant Introductions; Begin Design Workshop and Selection of Groups	<i>Participants</i>
2:15 - 3:15	- D -	Data Analysis Part 1: Block Design; t-Tests; Ideas for Data Reduction and the GLM	Robert Savoy
3:30 - 4:00	-E-	Data Analysis Part 1 (continued): Systematic Overview	Robert Savoy
4:00 - 5:00		Informal Discussion; Optional Tour of MRI room	Robert Savoy & <i>Participants</i>

Tuesday

8:00 - 10:00	- H -	Experimental Task Design in Functional Neuroimaging <i>(with a short break)</i>	Robert Savoy
10:30 - 11:15	- I -	Data Analysis Part 2: Preprocessing	Robert Savoy
11:30 - 12:30	- N -	Data Analysis Part 3: First Level Estimation	Robert Savoy
12:30 - 1:30		<i>Lunch</i>	
1:30 - 2:30	- O -	Data Analysis Part 4: Second Level Estimation	Doug Greve
2:45 - 3:15		Experimental Design Workshop start	Robert Savoy
3:30 - 4:30	- J -	fMRIPrep: A Robust Preprocessing Pipeline for fMRI Data	Christopher Markiewicz
5:30 - 10:00		Evening Experimental Design Workshop. Ends between 9 and 10pm	<i>Staff*</i> ; Robert Savoy

Wednesday

8:00 - 10:00	- M -	Resting State fMRI Connectivity and Multivariate Analysis <i>(with a short break)</i>	Robert Savoy
10:15 - 10:45	- P -	Computational Neuroanatomy	Robert Savoy
10:45 - 12:00	- R -	DSI / DTI / Tractography: Getting at White Matter Tracts with MRI	Anastasia Yendiki
12:00 - 1:00		<i>Lunch</i>	
1:00 - 1:30	- Q -	Overview and Combining Software Packages	Robert Savoy
1:30 - 1:45		Reminder of the rest of the day / Design Workshop discussions	Robert Savoy
1:50 - 2:15		Databases & Reproducibility Resources	Robert Savoy
2:15 - 3:15	- K, L -	Advances in Single Trial Design; Visualizing the FIR Model of Analysis	Robert Savoy
3:30 - 4:30	- G -	Optimizing Data Acquisition; Advanced Techniques in Data Acquisition	Blaise Frederick
4:45 -		Informal Discussion of the Day's lectures	Robert Savoy & <i>Participants</i>
5:30 - 10:00		Evening Experimental Design Workshop. Ends between 9 and 10pm	<i>Staff*</i> ; Robert Savoy

Thursday

8:00 - 8:45	- C -	Review of Basic MRI (Optional, for those interested; same slides as Monday 10:00)	Robert Savoy
or			
8:00 - 8:40	- X -	Scanning Children and Adolescents <i>(informal)</i>	Constanza M. Vidal Bustamante
9:00 - 10:45	- C' -	Topics in Advanced MRI (e.g., Phase Encoding; other topics by request)	Jonathan Polimeni
11:00 - 12:00	- U -	BIDS: Brain Imaging Data Structure; Quality Assurance Issues	Christopher Markiewicz
12:30 - 1:00		<i>(discussions during Lunch)</i>	
1:00 - 2:20	- T -	Data Analysis Part 5: Inference & Critical Thresholds; Review; Q&A	Doug Greve
2:30 - 4:00		Controversies in the Functional MRI (or other invited topic)	Peter A. Bandettini or <i>other</i>
4:30 - 5:30		Extra Time for Discussion and Design Workshop, as needed	<i>Staff*</i> ; Robert Savoy

Friday

8:00 - 8:45	- W -	Selected Topics in fMRI: Experimental Task Design in the Age of Connectivity; Clinical Considerations; Using Large N examples; Grant Writing; etc	Robert Savoy
9:00 - 10:45	- V -	Seed-Based fMRI Functional Connectivity or Other Invited Topic	
11:00 - 11:45	- Y -	Command Line Analysis of an Experiment and Visualization Demo of Freesurfer	Matthew Vera
12:00 - 2:00		<i>Class Presentations: Experiments; Class Discussion / Feedback / Closing</i>	<i>The Program Participants!</i>

*Staff: Experimental Design Experts: Robert Barry; Julia Felicione; Blaise Frederick; Robert Savoy