

Connectivity Course 2014Sep03 Schedule



Structural and Functional Connectivity via MRI September 3-7, 2014

All classes will be held in the Research Affairs Conference room in Building 149 at the WEST end of the building on the first floor.

Robert Savoy Basics of Signal and Contrast; Diffusion Imaging Robert Savoy Lunch Lun	Day 1 (Wednesday, Sep 3)				
Image Contrast and Tradeoffs in fMRI; Safety, HRC/IRB Considerations Robert Savoy Lunch 1:00 - 1:30 - 24 - Advanced MR: Multi-Channel and Multi-Slice Kawin Setsompop 1:00 - 2:00 - 3:-30 - 34 - Clinical Overview and Molivation Robert Savoy Sheeba Arnold / Mary Foley Day 2 (Thursday, Sep 4)	8:30 - 10:00	- 1 -	Program Introduction and Overview	Robert Savoy	
12:00	10:00 - 12:00	- 2 -			
1:00 - 1:30 - 24 Advanced MR: Multi-Channel and Multi-Slice Kawin Setsompop 1:00 - 2:00 - 3:30 - 4 - (Clinical Overview and Motivation Tour of MRI; Collection of Seed-Based Connectivity Data Robert Savoy / Sheeba Arnold / Mary Foley Day 2 (Thursday, Sep 4) 9:00 - 10:00 - 5 - White Matter Anatomy Jeremy Schmahmann 10:15 - 12:00 - 1:00 Lunch 1:00 - 2:15 - 7 - Basics of Seed-Based fc-fMRI: Acquisition and initial Processing Sheeba Arnold / Mary Foley Schmahmann 1:00 - 2:15 - 7 - Basics of Seed Based fc-fMRI: Acquisition and initial Processing Sheeba Arnold / Sue Whitfield-Gabrieli 4:00 - 6:00 - 9 - Basics of Seed Based fc-fMRI: Analysis (and the CONN Toolbox) Sue Whitfield-Gabrieli Dinner in the Atrium Sheeba Arnold / Sue Whitfield-Gabrieli Dinner in the Atrium Applications of fc-fMRI Sue Whitfield-Gabrieli Dinner in the Atrium Sheeba Arnold / Sue Whitfield-Gabrieli Dinner in the Atrium Sheeba Arnold / Sue Whitfield-Gabrieli Dinner in the Atrium Sheeba Arnold / Sue Whitfield-Gabrieli Dinner in the Atrium Sheeba Arnold / Sue Whitfield-Gabrieli Dinner in the Atrium Sheeba Arnold / Sue Whitfield-Gabrieli Dinner in the Atrium Sheeba Arnold / Sue Whitfield-Gabrieli Dinner in the Atrium Sheeba Arnold / Sue Whitfield-Gabrieli Dinner in the Atrium Sheeba Arnold / Sue Whitfield-Gabrieli Dinner in the Atrium Applications of fc-fMRI Sue Whitfield-Gabrieli Sheeba Arnold / Sue Whitfield-Gabrieli Dinner in the Atrium Applications of fc-fMRI Sue Whitfield-Gabrieli Sheeba Arnold / Sue Whitfield-Gabrieli Dinner in the Atrium Applications of fc-fMRI Sue Whitfield-Gabrieli Dinner in the Atrium Applications of fc-fMRI Applications of fc-fMRI Applications Lunch Lunch (Losa Nickerson Lunch Lunch Applications Diffusion MRI Anastasia Yendiki / Thomas Witzel Dinner in the Atrium Applications Diffusion Data (Software Demonstration) Anastasia Yendiki Anastasia Ye	10.00 1.00			Robert Savoy	
1:00 - 2:00 -3 - 3 Basics of Seed-based fc-fMRI: History and Relation to Multivariate Analysis Michael D. Fox Tour of MRI; Collection of Seed-Based Connectivity Data Robert Savoy / Sheeba Arnold / Mary Foley		24	=	Varrin Catalana	
2:00 - 3:30					
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2:30 - 4:00 - 8 - Hands on Exercises with the Data Sheeba Arnold / Sue Whitfield-Gabrieli 6:00 - 7:15		ŭ	<u>.</u>		
4:00 - 6:00 - 7:15	1:00 - 2:15	- 7 -		Sue Whitfield-Gabrieli	
6:00 - 7:15 7:15 9:00 - 10 - Dinner in the Atrium 7:15 - 9:00 - 10 - Doug Rosene Dinner in the Atrium		- 8 -			
7:15 - 9:00 - 10 - Applications of fc-fMRI Day 3 (Friday, Sep 5) 9:00 - 10:00 - 11 - Network Connectivity; Individual Differences; Neurogenerative Disease 10:15 - 12:00 - 12 - ICA and Resting State Network Analyses for Individuals 1:00 - 1:00		- 9 -		old / Sue Whitfield-Gabrieli	
9:00 - 10:00 - 11 - Network Connectivity; Individual Differences; Neurogenerative Disease Brad Dickerson 10:15 - 12:00 - 12 - ICA and Resting State Network Analyses for Individuals Lisa Nickerson 12:00 - 1:00 Lunch Lunch 1:00 - 2:00 - 13 - ICA and Resting State Network Analyses for Groups Lisa Nickerson 12:00 - 3:30 - 14 - ICA Hands On using FSL / Melodic Lisa Nickerson 12:00 - 5:00 - 15 - Introduction to Diffusion MRI Anastasia Yendiki Acquiring Diffusion Data Anastasia Yendiki / Thomas Witzel Day 4 (Saturday, Sep 6)					
9:00 - 10:00	7:15 - 9:00	- 10 -	Applications of fc-fMRI	Sue Whitfield-Gabrieli	
10:15 - 12:00 - 12 - ICA and Resting State Network Analyses for Individuals 1:00 - 1:00	Day 3 (Friday, Sep 5)				
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12:00 - 1:00					
1:00 - 2:30 - 18 - Graph Theory and Analysis of fc-fMRI data 3:00 - ?? - 19 - Hands-on Exercises with Diffusion Data Day 5 (Sunday, Sep 7) 9:00 - 10:00 - 20 - Testing the Reality of it all Doug Rosene 10:00 - 11:00 - 21 - Geometric Structure of Fiber Pathways 11:00 - 11:30 - 22 - fcFMRI at 7 Tesla Mika Rubinov (Remote Lecture) Mika Rubinov (Remote Lecture) Day 5 (Sunday, Sep 7) Doug Rosene Van Wedeen Koene Van Dijk	12:00 - 1:00				
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NOTE: The above schedule is descriptive of the topics that will be covered, and the approximate timing.