

- Dates: SPRING, 2024; **Mondays 11:00-1:00**
- Location: A719 Crabtree, SPH
- Credits: 2

- Course co-directors

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Schedule of Sessions and Speakers

Week/date	TOPIC	How to prepare for this class?	Speakers
1. 1/8	Introduction to course and project	Optional papers on designing Population Neuroscience studies Become familiar with: syllabus, timeline, template for the poster, template for the graphical abstract	Dr. Shaaban
1/15	Martin Luther King, Jr. Holiday		
2. 1/22	Principles of MRI (2hrs)	Slides	Dr. Huppert
3. 1/29	Basics of Functional neuroanatomy (2hrs)	Slides	Dr. Gujral
First draft of project idea due- identify the research question. Use the graphical abstract layout.			
4. 2/5	Structure I- GM regions T ₁ , T ₂ (1hr) Ultra-high field- (1hr)	Slides	Dr. Wu Dr. Ibrahim
5. 2/12	Perfusion and Neurovascular coupling (2hrs)	Slides	Dr. Huppert
6. 2/19	Structure II- WM tracts Diffusion tensor (1hr) Resting state (1hr)	Slides	Dr. Versace Dr. Huppert
7. 2/26	fNIRS – physics (2 hr)	Slides	Dr. Huppert
8. 3/4	fMRI task-related (1hr) Multimodal Application (Dr. Shaaban presents a poster)	Slides	Dr. Karim Dr. Shaaban
3/11	Spring break		
9. 3/18	MEG (1hr) EEG (1hr)	Slides	Dr. Ghuman (1 hr) Dr. Salisbury (1 hr)
Mid-term due. email first draft of poster + graphical abstract today by 5 PM			

10.	3/25	PET Physics (1hr)	Slides	Dr. Cohen (1 hr) Dr. Calabro (1 hr)
		Multimodal Application	<i>Return your critique of your peers' posters email the instructors (filename "poster#_your initials"). Each team will receive critiques from peers and the instructors,</i>	
11.	4/1	Revision- graphical abstract*	Prepare one slide with your graphical abstract, present it in class and answer clarification questions.	Class and Instructors
12.	4/8	Topics revision /Small group discussion	QUESTIONS FROM CLASS	Class and Instructors
13.	4/15	Revision- graphical abstract*	Prepare one slide with your graphical abstract+ edits based on the feedback you received. Present it in class and answer clarification questions.	Class and Instructors
		Revised graphical abstract and presentation due in class today.		
14.	4/22	Poster presentation	<i>Provide suggestions/ask questions to your peers. This is a chance to score for your 30 points for class participation: Ask questions, either by email or in person !!!</i>	Class and Instructors
		Poster presentations in class today.		