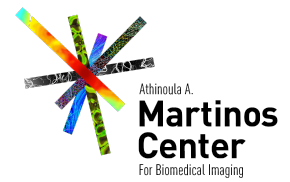




# Connectivity Course 2021 Autumn

## Structural and Functional Connectivity via MRI

Tuesday/Wednesday/Thursday October 26-28, 2021



All classes will be held remotely, using Zoom.  
 Regular class hours will be 9:00am-6:00pm (EDT GMT -4)  
 The Zoom site will be started one hour beforehand, at 8:00am, and at least one faculty member will be there.  
 Slides and other material are available at the Thinkific site for this course for registered participants.

### Day 1

8:00 - 9:00	<i>Informal Faculty Time</i>	Robert Savoy and/or Other Faculty
9:00 - 9:30	<b>Welcome and Overview</b>	Robert Savoy
9:45 - 11:00	<b>Multivariate Analysis and Connectivity</b>	Robert Savoy
11:15 - 12:30	<b>Quick Review of Basics of NMR and MRI; Sources of Signal and Contrasts: BOLD Contrast, Diffusion Imaging Contrast; Safety, HRC/IRB Considerations</b>	Robert Savoy
12:30 - 1:00	<b>Participant Introductions</b>	Program Participants
1:00 - 2:00	<i>Lunch</i>	
2:00 - 3:00	<b>White Matter Anatomy</b>	Anastasia Yendiki
3:00 - 5:00	<b>Clinical Applications of Connectivity Analysis (Part 1)</b>	Michael Fox
5:00 - 6:00	<b>Overview of Relevant Software Packages</b>	Robert Savoy or Other Faculty

### Day 2

8:00 - 9:00	<i>Informal Faculty Time</i>	Robert Savoy and/or Other Faculty
9:00 - 12:00	<b>Diffusion MRI &amp; Tractography</b>	Anastasia Yendiki
12:00 - 1:00	<i>Lunch</i>	
1:00 - 2:00	<b>Demonstration of Diffusion and Tractography Software</b>	Anastasia Yendiki
2:15 - 3:15	<b>Validation for Diffusion Tractography</b>	Anastasia Yendiki
3:30 - 5:30	<b>Clinical Applications of Connectivity Analysis (Part 2)</b>	Susan Whitfield-Gabrieli
5:30 - 6:00	<b>Related Topic(s), to be determined</b>	Faculty

### Day 3

8:00 - 9:00	<i>Informal Faculty Time</i>	Robert Savoy and/or Other Faculty
9:00 - 12:00	<b>The Many Methods for Analyzing Resting State and Related fMRI data**</b>	Alfonso Nieto-Castañón
12:00 - 1:00	<i>Lunch</i>	
1:00 - 2:00	<b>Demonstration of the “conn” Toolbox.**</b>	Alfonso Nieto-Castañón or Other Faculty
3:00 - 4:30	<b>Clinical Applications of Connectivity Analysis (Part 3)</b>	Susie Huang ( <i>tentative</i> )
4:30 - 6:00	<b>Related Topic(s), to be determined</b>	Faculty