

## **Structural and functional brain MRI: overview of image analysis methods**

<b>Organizer(s)</b>	Merixell Bach Cuadra, Yasser Aleman, Eleonora Fornari, Anna Gaglianese (CHUV/UNIL)
<b>1 ECTS</b>	tbd
<b>Course dates</b>	<ul style="list-style-type: none"><li>• Tuesday April 20, Thursday April 22, Tuesday April 27, Thursday 29, Tuesday May 4, Thursday May 6</li><li>• Exam Tuesday May 18.</li><li>• Timing tbd (2h twice per week)</li></ul>
<b>Course location</b>	<ul style="list-style-type: none"><li>• Online livestreams on Zoom</li></ul>
<b>Summary</b>	<ul style="list-style-type: none"><li>• Overview on structural and functional brain image analysis methods</li><li>• Understanding of what one can “derive” from brain MR acquisition towards the application of interest.</li><li>• Identify several tools to go from neuroimaging (observations) to meaningful maps of biomarkers</li><li>• Be able to identify the major steps and pitfalls in the design of a prospective MR brain study.</li></ul>
<b>Pre-requirements</b>	tba
<b>Content of course sessions</b>	tba
<b>Course materials</b>	Tba
<b>Evaluation</b>	Journal Club on a paper the students chose related to the methods explained during the course. One student per paper (if requested groups of two). Presentation of approx 10 min + 5 min questions.

**Registration**

The course is limited to 16 participants. Register before by writing a mail to [Indscourses@gmail.com](mailto:Indscourses@gmail.com) (with your supervisor in copy) and stating the course title as subject.”