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

**Organizer(s)** Meritxell Bach Cuadra, Yasser Aleman, Eleonora Fornari, Anna Gaglianese (CHUV/UNIL)

**1 ECTS** tbd

**Course dates**
- Tuesday April 20, Thursday April 22, Tuesday April 27, Thursday 29, Tuesday May 4, Thursday May 6
- Exam Tuesday May 18.
- Timing tbd (2h twice per week)

**Course location**
- Online livestreams on Zoom

**Summary**
- Overview on structural and functional brain image analysis methods
- Understanding of what one can “derive” from brain MR acquisition towards the application of interest.
- Identify several tools to go from neuroimaging (observations) to meaningful maps of biomarkers
- Be able to identify the major steps and pitfalls in the design of a prospective MR brain study.

**Pre-requirements** tba

**Content of course sessions** tba

**Course materials** Tba

**Evaluation** 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.
The course is limited to 16 participants. Register before by writing a mail to lndscourses@gmail.com (with your supervisor in copy) and stating the course title as subject.”