



Contribution ID: 43

Type: **Hands-on session**

Sulcal morphometry for multiple subjects using BrainVisa / Morphologist

Monday 9 September 2024 13:00 (1h 30m)

During this session, we will demonstrate how to perform a sulcal morphometry study for a set of T1 MRI images, using BrainVisa and especially its Morphologist toolbox.

The Morphologist pipeline will perform all preprocessings: brain alignment, brain extraction, tissues classification, cortical folds detection, structured representation of sulci, sulci identification, morphometric features extraction in a data table.

Users are then free to use their favorite statistical or machine learning package to perform classification, regression, or correlation studies on populations.

The session will include manipulation of the main Morphologist pipeline, and some tools around, including 3D visualization, in order to show how users can operate more custom processing.

As it is a “hands-on” session, attending people are expected to come with a laptop with the BrainVISA distribution installed (<https://brainvisa.info>), and they may bring a small set of T1 MRI images to process. 3D Visualization demos will include data from the BigBrain image, preprocessed using Morphologist.

Presenters: RIVIÈRE, Denis (Neurospin); MANGIN, Jean-Francois (Neurospin)

Session Classification: Hands-on Session 2