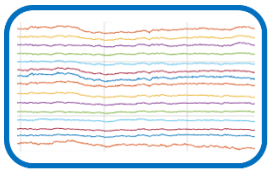
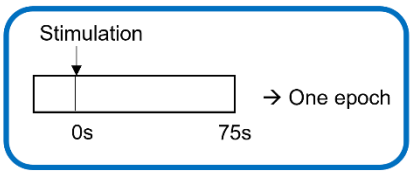


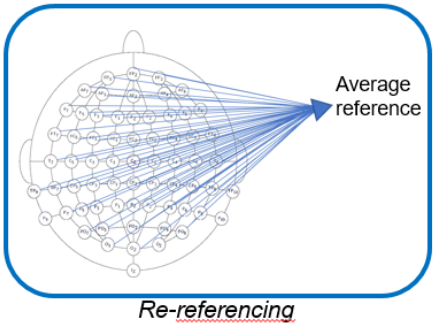
EEG raw data

- High-pass Butterworth filter (0.05 Hz)
- Multi-notch filter (50 Hz)

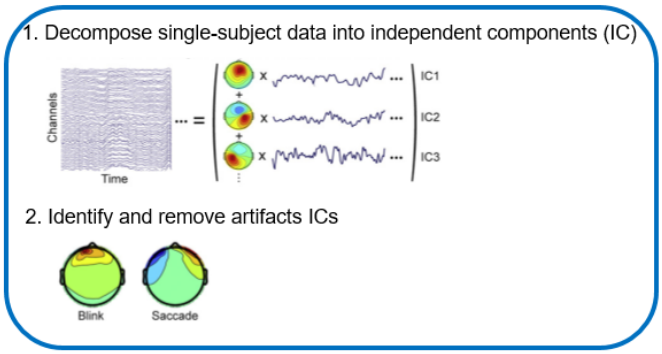
Filters application



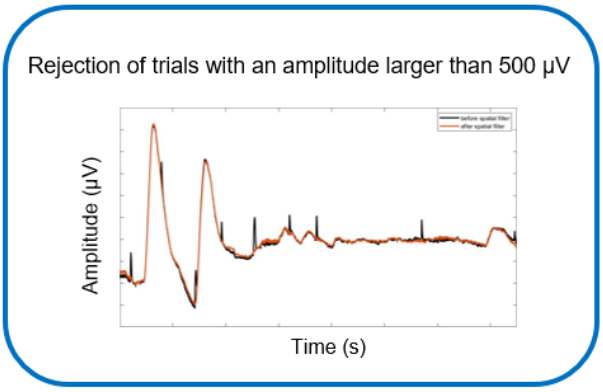
Segmentation relative to events



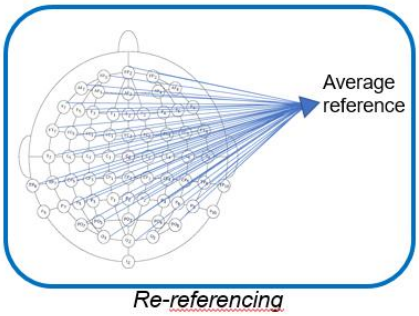
Re-referencing



ICA matrix computation and ICA filter application



Trial rejection



Re-referencing

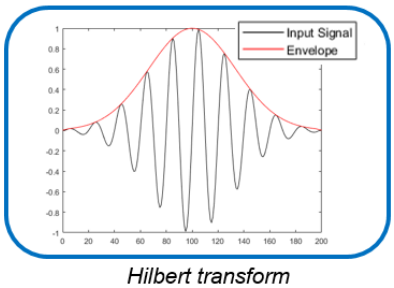
Analysis of the modulation of ongoing oscillations

Band-pass Butterworth filter : theta (4-8 Hz)

Band-pass Butterworth filter : alpha (8-12 Hz)

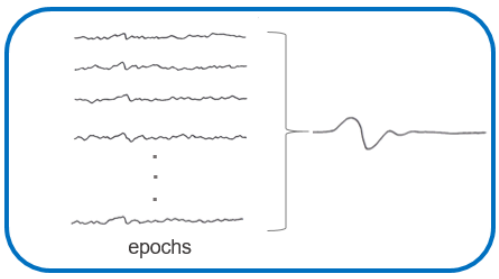
Band-pass Butterworth filter : beta (12-40 Hz)

Filters application

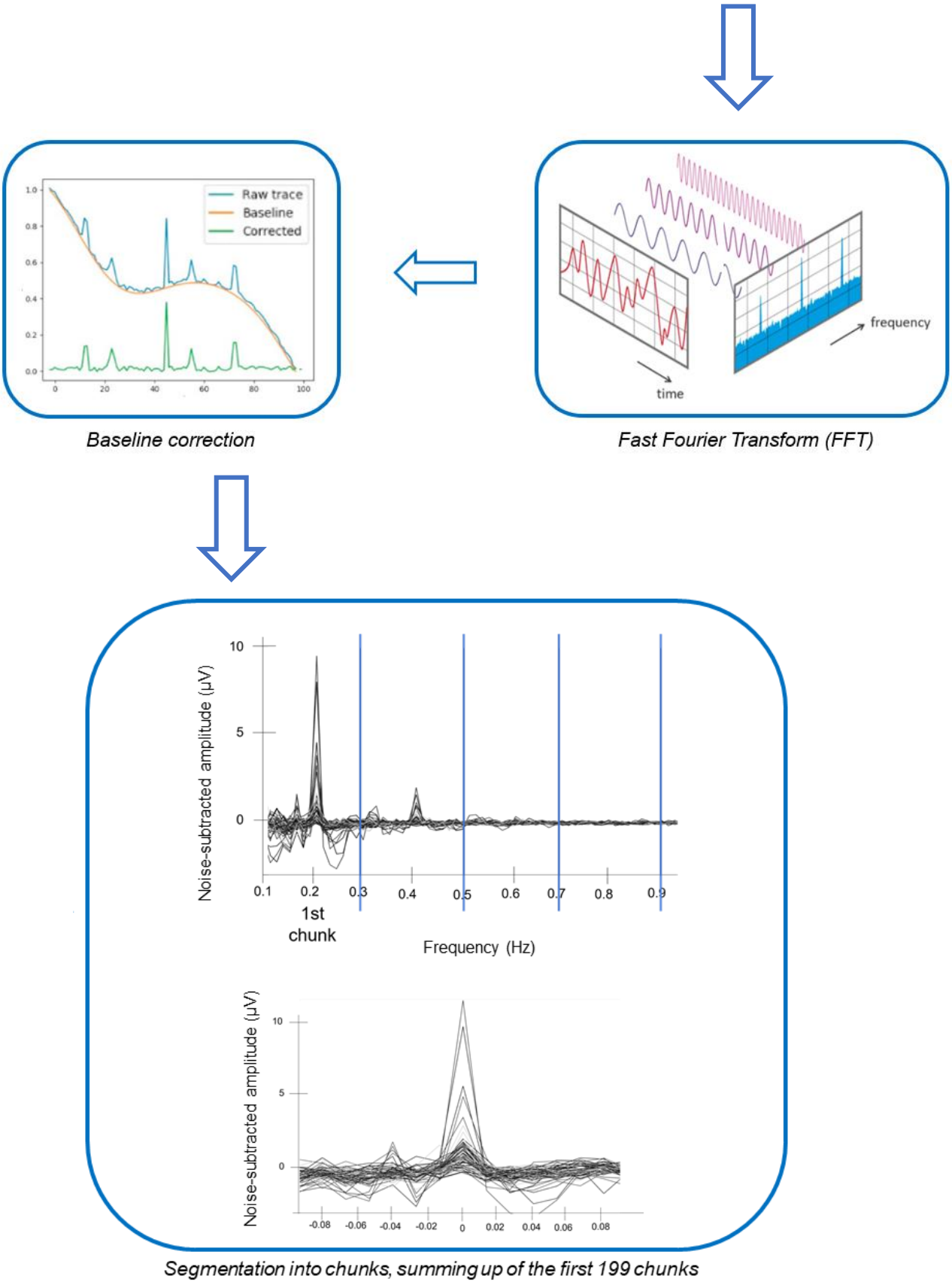


Hilbert transform

Analysis of the periodic EEG response



Averaging of epochs



Supplementary Figure 1: Illustration of the EEG data pre-processing