**ReSync Toolbox Manual 1.0**

Guang Ouyang, 2020 Feb

**General**

ReSync is an EEG toolbox for correcting ERP waveform that is attenuated due to trial-to-trial latency jitter. More details about how it works can be found in ReSync paper. In brief, due to latency jitter, the ERP components in single trials is not fully synchronized with respect to stimulus onset, making the ERP waveform a ‘blurred’ version. ReSync identifies the latency of the latency-variable components in single trials, using General Linear Model method to decompose and resynchronize them. One of the advantage of ReSync method is that it can resynchronize different components with different degree of jitter (e.g., early and late) separately, without affecting each other. One can follow the instruction below to see how it works.

**Installation**