For Static FC, run staticFC.m file, need to prepare data matrix of dimension # of time by # of regions by # of subjects.

For Dynamic FC, please include jplv7 filefolder (ADF test toolbox) under the matlab path. Then run function adf\_slidingwindowFC.m, need to prepare data matrix of dimension # of time by # of regions by # of subjects, and need to specify window length lower and upper limit.

normally, the lower limit should not lower than 20 time points, and upper limit should not exceed 140 time points.

For Static EC, need to prepare data matrix of dimension # of time by # of regions. Run function find\_order.m to calculate the order for the data.

Then run function main\_cpgc\_func.m to calculte static EC.

If you want to calculate significant static EC, run function cpgc\_significance\_func.m.

For Dynamic EC,

1.set the current working directory to where the find\_order\_ff.m and main\_dynamicEC.m are.

1.run find\_order\_ff.m to find order and forgetting factor for given data of dimension # of time by # of regions by # of subjects

2.If you want a group value of dynamic EC, type "group=1" in matlab command window,if you want individual dyanmic EC, type "group=0" in matlab command window.

then run main\_dynamicEC.m to calculate dynamic EC.