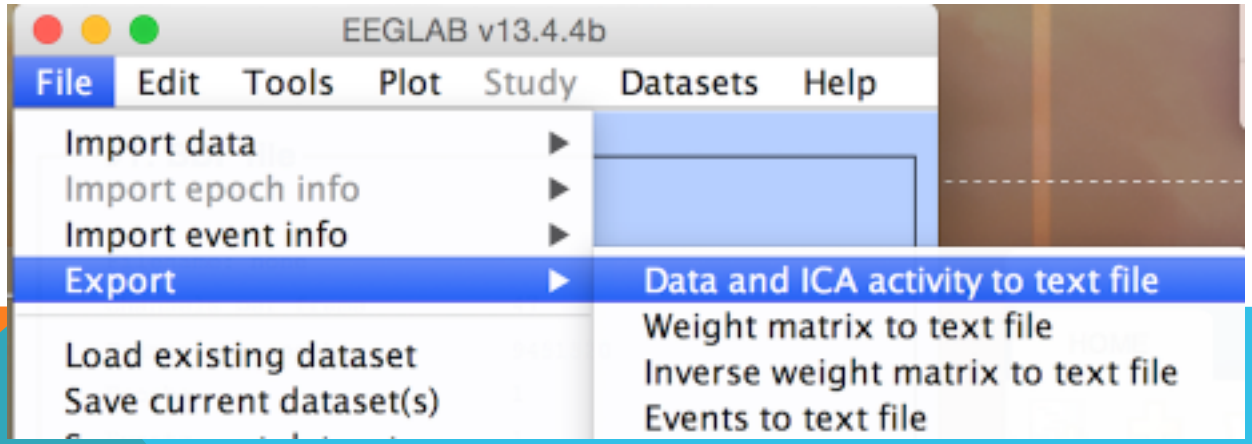
# FOGTOOLBOX USER GUIDE BY NGHIA NGUYEN

1. Copy the FOGToolbox folder into the desired location
2. In Matlab: Add the FOGToolbox location/directory into Matlab Path
3. Download free EEGLab and copy it into desired location
4. In Matlab: Add EEGLab location/directory into Matlab Path
5. Use EEGLab to import Biosemi file (bdf extenstion file)
6. Follow Hayat EEGLAB STEPS (pdf version), except the exporting file step.
7. In the EEGLab, choose export file as following



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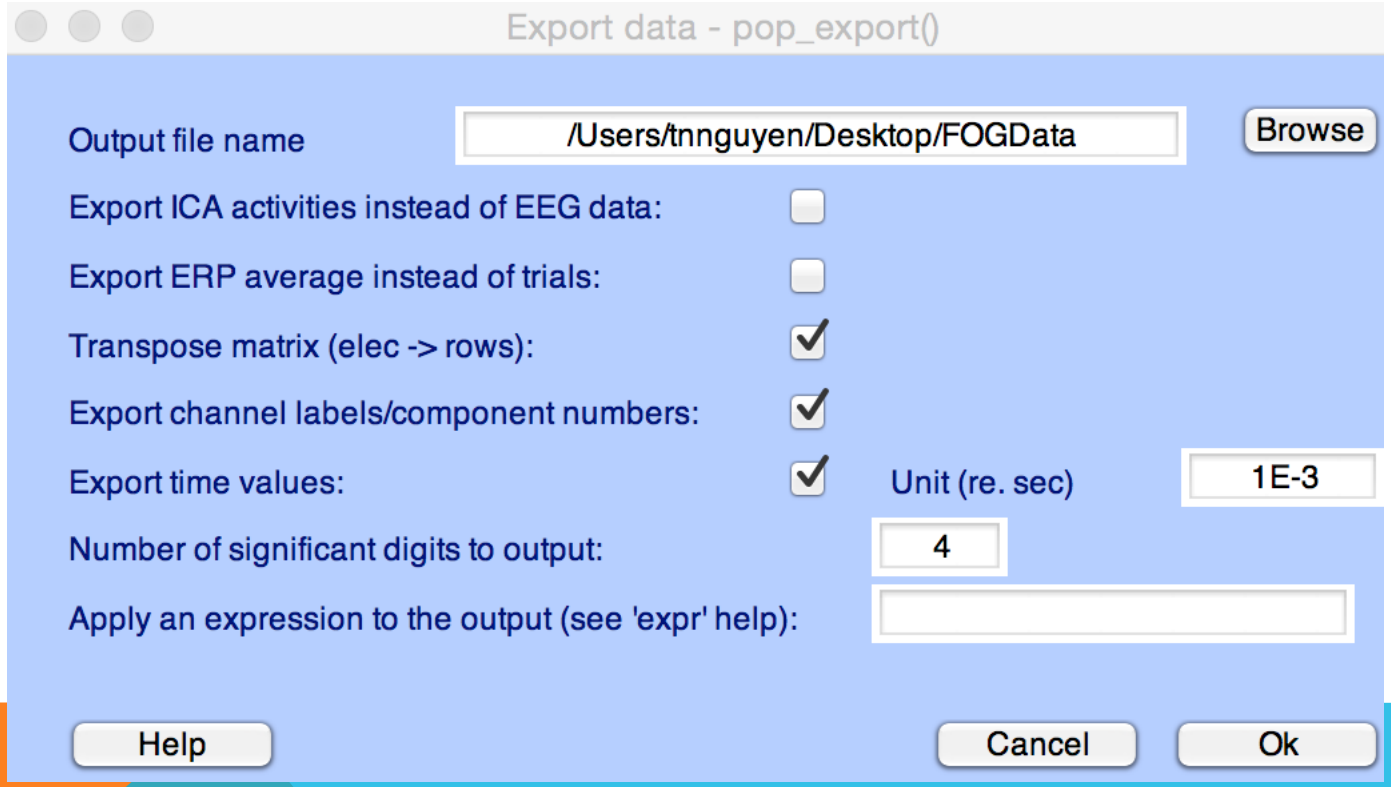
8. In file export dialog, select “Transpose Matrix ” option as follows:



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9. The toolbox includes 2 files:

ExtractData(iFile,oFile,SamplingRate,StartTime,RecordDate);

This file convert the text file generated by EEGLab into desired text file that can be read by Excel macro file

ExtractData2Sets(iFile,nFile,oFile,fFile,SamplingRate,StartTime,iSecBeforeFreezing,FreezingOn,FreezingOff,DEBUG)

This file convert the text file generated by EEGLab into 3 files that representing normal data set, iSec second before freezing dataset and freezing data set. The function has DEBUG option to help user analyse the output results. The DEBUG should be set to 0 (DEBUG =0) to get final data files.

10. Use two provided examples to learn how to use the toolbox. The inputs for FreezingOn and FreezingOff have to follow the same format in the provided examples.