I generate my mask and seeds using a different script: ‘EricGenerateMaskSeeds.m’ this generates a mat file called ‘200128-L2-LandmarksandMask.mat’

Then run ‘EricMaskSeedsToG5('C:\Users\landsness\Box\MachineLearning\200128\200128-L2-LandmarksandMask','C:\Users\landsness\Box\MachineLearning\200128\200128-L2-')’ to generate the file needed by Lindsey’s code.

Then run ‘Mouse\_Master\_ProcGitHub5’ script to generate the pre-processing

Proc1\_sys\_dep\_LEDShifting.m – because the sleep recordings are broken up into multiple files the LED “shifts” with which one starts first. Therefore ‘Proc1\_sys\_dep.m’ was modified to take this into account. This modified function is called in the ‘Mouse\_Master\_ProcGitHub5’ script

After the ‘Affine\_GSR\_BroadBand.mat’ files are generated, then you have to run ‘CreateGSRfileFromContrasts2’ to loads the gitHub5 processed data (all\_contrasts2) and saves 128x128 x 10sec x epoch that is aligned to scoring. This function is called in GCAMP\_EEG\_EMG\_Sleep\_PreProcessing. To get the scoring, call step #1 to import the scoring from a matlab file, i.e ‘L2\_scoring\_el’