STEPS:

1. a\_prep\_loadsol\_imu.m ; a\_prep\_click\_fiducials; a\_prep\_headreco\_create.mesh
   1. steps are necessary for marking gait events, aligning the MRI for source localization of subject ICA, and generating a mesh that is friendly with the \_compiled/mcc\_dipfit/\_out/mcc\_dipfit function (or mcc\_dipfit.m if you don’t want to download Matlab runtime libraries)
   2. NOTE a\_prep\_loadsol\_imu behavior is not workable contact repo adviser for more details:
      1. Liveamp merging script (see. R:\...\Share\MindInMotion\mergeLiveAmpsOneSubj.m, it has dependencies in the same folder)
      2. Liveamp merging to loadsol script (see. R:\...\Share\MindInMotion\mergeLiveAmpswithLoadsolOneSubj.m, it has dependencies in the same folder)
      3. Liveamp merging to IMU script (see. R:\...\Share\MindInMotion\mergeLiveAmpswithIMUOneSubj.m, it has dependencies in the same folder)
      4. Measure generation IMU script (see. R:\...\Share\MindInMotion\analyzeIMUallTrials\_ManySubj.m, it has dependencies in the same folder)
      5. Measure generation script Loadsol (see. R:\...\Share\MindInMotion\ analyzeLoadsolManySubj.m, it has dependencies in the same folder)
2. batch\_preprocess.m
   1. This is a preprocessing script that cleans the EEG data and generates a .set/.fdt file pair that contains all the conditions in the study.
3. run\_singlenode\_amica\_run.sh
   1. This generates ICA decompositions from step (1)
4. source\_mim\_mcc\_dipfit\_exe.sh
   1. This generates dipole fits for independent components in (2)
5. ants\_norm.bash (note: only needs to be ran once)
   1. This normalizes each subject's MRI to MNI-space
6. ants\_write\_dip\_csv.m
   1. This generates a csv file of all the dipoles fits generated in (3)
7. ants\_norm\_apply\_trans.bash
   1. this uses the .csv file in (4) and the MRI file in (4\*) to transform the dipole positions to MNI space.
8. ants\_norm\_dips.m (run\_ants\_norm\_dips.sh)
   1. This updates the .set file in (1) to include the Finite Element Dipole fits.

NOTES:

Email from Sumire:

"""

ml gcc/5.2.0

ml ants

should load ants. Check if loading was successful by entering "antsRegistation" if it displays you a manual it was correctly loaded.

# APPLICATION

MNI\_Template=/Users/sumiresato/Documents/MR\_Templates/ANTs\_c0Template\_T1\_IXI555\_MNI152\_GS\_brain.nii

antsRegistrationSyNQuick.sh -d 3 -f $MNI\_template -m ./cat\_brain.nii -t s -o ants | tee myRegOutput.txt

Briefly, -f is your MNI template (fixed), -m is your image in native space (moving) -o is the prefix for your output images.

"""

Need to add: