The necessary files are listed here:

4 R files

Thigh.R

Wrist.R

Hip.R

Merger.R

1 RData files

mods.RData

2 csv files

groundtruth.csv

DO\_log\_final.csv

Running all 4 R files will create 5 important functions. These functions are:

thighmodel(ap.directory, out.directory, crit.directory, changeTZ = TRUE)

wristmodel(ag.directory, out.directory, crit.directory)

hipmodel(ag.dir, out.dir)

merger(outthigh.directory, outwrist.directory, outhip.directory, out.directory)

summary(in.directory, out.directory)

thighmodel(ap.directory, out.directory, crit.directory, changeTZ = TRUE)

ap.directory is a String named after the folder containing only the raw thigh data files.

out.directory is a String named after the folder where the you want the results of the thigh model to end up. The file will be called “MergedThighResults\_post\_ds.csv”.

crit.directory is a String named after the folder containing the “groundtruth.csv” and “DO\_log\_final.csv”.

changeTZ is a Boolean that will allow the user to change the time zone from UCT to PST. This is preset to TRUE, TRUE means the time zone change will occur.

wristmodel(ag.directory, out.directory, crit.directory)

ag.directory is a String named after the folder containing only the raw wrist data files.

out.directory is a String named after the folder where the you want the results of the wrist model to end up. The file will be called “MergedResults\_wrist\_sedsphere\_20190710.csv”.

crit.directory is a String named after the folder holding the “groundtruth.csv”, mods.RData, and “DO\_log\_final.csv”.

hipmodel(ag.dir, out.dir)

ag.dir is a String named after the folder containing only the raw hip data files.

out.dir is a String named after the folder where the you want the results of the hip model to end up. The file will be called “MergedHipResults.csv”.

merger(outthigh.directory, outwrist.directory, outhip.directory, out.directory)

outthigh.directory is a String named after the folder where the file will called “MergedThighResults\_post\_ds.csv” is located.

outwrist.directory is a String named after the folder where the file will called “MergedResults\_wrist\_sedsphere\_20190710.csv” is located.

outhip.directory is a String named after the folder where the file will called “MergedHipResults.csv” is located.

out.directory is a String named after the folder where you want the final merged file to be located. The file will be called “ResultsMerged1sec.csv”

summary(in.directory, out.directory)

in.directory is a String named after the folder where the ResultsMerged1sec.csv is located.

out.directory is a String named after the folder where you want the summary file to be located. The file is called “PredictorySummary.csv”.