Running the code

1) Open up 3 MATLABs and open up the following scripts:
    a) *RobotExperiment_22Feb2017.m (C:\Data\UR5\KostasExperiment\RobotExp_left_repeatTrial_seems2Work\gazeOnline not used, storing gazeCheckOutput)*
    b) *Data_Stream.m (C:\Users\admin\Documents\Aaron_and_Jesslyn)*
    c) *Main_PSTH_Raster_GUI_2.m (C:\Users\admin\Documents\Aaron_and_Jesslyn)*
2) Set all 3 MATLABs to high priority by:
    a) CTRL + ALT + DELETE
    b) Task Manager
    c) Find the 3 MATLAB applications under "Processes"
    d) Right click on each MATLAB and set "Priority" to "High"
3) Set up the experiment as normal and run the *RobotExperiment_22Feb2017.m*
4) Run the *Data_Stream.m* on the second MATLAB window
    a) MATLAB displays "Press any key to continue", press any key to start the streaming
5) Wait until all 9 robot positions have been trialled
6) Run *Main_PSTH_Raster_GUI_2.m*. Press "START" and find the directory of the data files. Default directory set to: C:\Users\admin\Desktop\Data\ or according to the Directory variable that has been set by the user.
7) Open up the latest file that was created on the day of testing (indexed by date modified and file name)

Changing the filename and directory

1) Open up *Data_Stream.m*
2) Find the variable "Name" in the code. It should look something similar to:
    a) Name = "Test";
    b) Change the "Test" to another name that is preferred. This name will be the name placed at the front of the file
3) Find the variable "Directory" in the code. It should look something similar to:
    a) Directory = ("C:\Users\admin\Desktop\Data\");
    b) Place your directory path into the quotation marks such as: Directory = (".....");

Ways to restart the code

Any errors that are returned in the *Main_PSTH_Raster_GUI_2.m* can be fixed by:

1) Re-running all the experiment codes (*RobotExp… , Data_Stream, Main_PSTH…..)*
   OR
2) Delete the filename that has "_sp_xxxx.mat" where xxxx represents a 4 digit number. Re-run *Main_PSTH_Raster_GUI_2.m* and follow steps 6-7 in "Running the code"