**Code base: Fisher, Lu, D’Alessandro, Wilson 2019**

List of scripts/functions include in this code base:

Figure 1:

analyzeOpenLoopTuningScript.m

plotOrderedReceptiveFields.m

plotOrderedReceptiveFields\_comparingResponseToPost.m

Figure 2:

**analyzeClosedLoopTuningScript.m**

**plotOpenLoopVsClosednLoopTuningCurves.m**

- Plots open loop and closed loop tuning curves

-analyzes open loop vs closed loop correlation coef and compares to shuffled data

-Plots true and shuffled correlation values

Figure 3:

**plotBarRandLoc\_ringNeuron\_180degScreens.m**

-Loads R neuron visual responses, finds spikes, plots tuning curve

**plotChrimsonResponseAmp.m**

-Plots E-PG voltage response to chrimson stimuluation

-Scatter plot of mean amplitude vs controls

Figure 4:

Figure 5:

Helper:

analysisClosedLoopTuning.m

analyzeOpenLoopTuning.m

HolmBonferroniTest.m

twoSidePvalueFromDistribution.m

ephySettings.m Ephy Rig Parameter settings

bluewhitered