**Analysis scripts**

**screen2retDisp.m** - converts “disparity” values from DeAngelis/Cumming datasets into true binocular disparity (they used a simplification to generate the RDS in each eye’s image whereby the dot separation presented on the screen is the separation that generates x disparity about fixation. That simplification doesn’t account for foreshortening error between the geometric horopter and frontoparallel screen).

**disparityError.m** - plots error between approximate/simplified disparities presented on screen to monkeys vs what the true disparity they experienced was.

**FanoFacCheck.m** - plots matched response mean and variance for each unique disparity presented to each cell to estimate whether response statistics in a cortical region depart from Poisson stats/are different from each other.

**Output folders**

**./disparityErrorPlots/** - output of disparityError.m

**./fanoFactorAnalysis/** - output scatterplots and power law fits from FanoFacCheck.m