%{

\*\*\*RUN ONLY IF NEEDED OTHERWISE SKIP\*\*\*

\*\*\*THIS WILL SEVERAL DAYS TO PROCESS\*\*\*

%}

all\_no\_ROI\_draws=[2000 40 40 40 1];

post\_time = 5;

% MLalgo\_to\_use = 6;

k\_fold = 5;

% post\_shift = 0.5;

% pre\_time = 5;

% p\_threshold = 1.1;

dt\_p\_threshold = 20;

ii\_cost = 3;

% group\_names = {'forward','reverse'};

for fileNo=1:length(AllSessions.FileName\_pre\_per)

%Do only for proficient

for ii\_ROI\_choices=1:length(all\_no\_ROIs)

% need to change to the constant value above

% FigEight\_choices.ii\_cost= ii\_cost;

% FigEight\_choices.dt\_p\_threshold=dt\_p\_threshold;

% FigEight\_choices.post\_time= post\_time;

% FigEight\_choices.k\_fold= k\_fold;

% FigEight\_choices.post\_shift=BatchFile.post\_shift;

% FigEight\_choices.pre\_time=BatchFile.pre\_time;

% FigEight\_choices.p\_threshold=p\_threshold;

% removed all together after NWB is added

FigEight\_choices.show\_figures=0;

% FigEight\_choices.processing\_algorithm=BatchFile.processing\_algorithm;

%

FigEight\_choices.pre\_per\_PathName=pre\_per\_PathName;

FigEight\_choices.pre\_per\_FileName=pre\_per\_FileName;

FigEight\_choices.no\_ROI\_draws=all\_no\_ROI\_draws(ii\_ROI\_choices);

FigEight\_choices.no\_ROIs=all\_no\_ROIs(ii\_ROI\_choices);

% might not be needed if no saving is being done!!\*

fig8\_ROI=fig8\_ROI+1;

FigEight\_out.fig8\_ROI(fig8\_ROI).FigEight\_choices=FigEight\_choices;

FigEight\_out.fig8\_ROI(fig8\_ROI).grNo=BatchFile.group(fileNo);

FigEight\_out.fig8\_ROI(fig8\_ROI).fileNo=fileNo;

%

%

start\_toc=toc;

FigEight\_out.fig8\_ROI(fig8\_ROI).handles\_out= SVZ\_ROI\_draw(FigEight\_choices);

fprintf(1, 'Data processed for file number %d, number of ROIs= %d\n',fileNo,all\_no\_ROIs(ii\_ROI\_choices));

fprintf(1,'Processing time for number of ROIs= %d is %d hours\n',all\_no\_ROIs(ii\_ROI\_choices),(toc-first\_toc)/(60\*60));

end

% might not be needed if no saving is being done!!\*

FigEight\_out.last\_file\_processed=fileNo;

FigEight\_out.last\_fig8\_ROI=fig8\_ROI;

FigEight\_out.handles=BatchFile;

end

Cheat Sheet for function calling

\*first file to be called

drgCaImAn\_batch\_pre\_per\_to\_decode\_entire\_session\_multi\_ROI\_fsdz ()

&) once file is chosen the following

need to be imbedded into each NWB for all function/processes called:

* mouse = mouse name/ID
* odor\_pair = what odor is used
* session\_no\_per\_mouse = session number for a given mouse
* group = ????
* sex = mouse’s sex
* trial\_amt = number of trials undertaken
* epochs = index point where epochs started

need to be added to the call for figure 8

* PathName\_out = base location for file location (change to NWB folder location)
* FileName\_pre\_per = each file containing the processed mouse data (change to NWB folder name)
* MLalgo\_to\_use
* post\_time
* k\_fold
* post\_shift
* pre\_time
* p\_threshold
* dt\_p\_threshold
* ii\_cost
* group\_names

Calls –

drgCaImAnFindPercentCorrect [98]

(pre\_per\_PathName, pre\_per\_FileName)

&) parts used after being loaded that are needed as inputs

* trial\_amt = number of trials undertaken
* epochs = index point where epochs started
  + 1 - FV on
  + 2 - odor on
  + 3 - odor off
  + 4 - reinforcement on
  + 5 - reinforcement off
  + 6 - Hit
  + 7 - Miss
  + 8 - FA
  + 9 - CR

drgCaImAn\_SVZ\_entire\_session\_randomROIdrawv3 [133]

(handles\_choices)

drgCaImAn\_SVZ\_entire\_session\_randomROIdrawv3 (inputs optional)

&) is needed once the file is loaded

* traces =

Calls –

drgCaImAn\_parse\_out\_trials [line 222]

(dt, dt\_span, epochs, no\_points\_post\_shift, no\_points\_post, no\_points\_pre, traces, ii\_p\_threshold, no\_odor\_trials)

drgCaImAn\_parse\_out\_trials

Calls –

nothing