**Risk Aversion Pipeline Analysis**

**Job List**

1. **Preprocess\_behav**

* Calls *preprocess\_behavData.m* and *plot\_behavData.m*
* Takes raw matlab data structure from participants session and converts it to a matlab structure with relevant data for analyses
* Takes relevant data and plots individual subjects behaviour: accuracy (trial binned), risk preferences within both-high and both-low conditions (plotted against one another) and trial binned risk preferences

1. **Process\_eyelink** 
   * Calls *preprocess\_eyelink.m*
   * Reads in .asc files and returns data
   * Splits data into individual trials
   * Interpolates missing data and returns a newpupil vector
   * Downsampling of both time vector and pupil vector to 50Hz
   * High pass and low pass filter of the data
   * Z-score of raw pupil data
   * Derivative of entire z-score pupil vector
   * Returns a trl structure of trial specific encodes, timestamp, trial number, z-score pupil and derivative pupil
2. **trialData\_eyelink**
   * calls *trialExtraction\_eyeData*
   * INPUT: both preprocessed behavioural and eyelink data
   * OUTPUT: concatenated relevant behavioural and eyelink data on a trial by trial basis
   * Separate data from trials into three relevant epochs: stimulus, choice and feedback
   * Each relevant epoch has its specific extraction times for z-score data and specific time period from which to extract the 95th percentile
   * Data key epoch event aligned (time vector, z-score and derivative)