**CONFIRMATORY STRATEGIES – NOTES 2020\_09\_18**

**TO DO – THIS WEEK**

1. GENERAL NOTE: DOCUMENTING

We can do a better work in terms of documenting

* the scripts (which-code-does-what, including input/output and order in which the scripts should be run – less a problem from now on if we use “summary” scripts) and
* the output files (description of the database)

In each folder with scripts and/or CSV files, there should be a README file that describes all this

You can start with the files in the cleaning folder (starting with the files that are already there)

1. CREATE A SINGLE CLEANING SCRIPT that executes all the existing ones

Have a single file **DetectiveBayes\_CleanAll\_OnlineExperiment** to execute with

* INPUT: all the CSV files in Data/RawData\_OnlineExperiment
* OUPUT: save the output [Task1/2/3\_step1/2/3/4, payoff, companion] in Data/CleanData\_OnlineExperiment
* LOCATION: the CleanAll file is the only file visible in the folder CleaningData\_OnlineExperiment, all the other scripts are in the subfolder CleaningData\_Code

1. GENERATE THE DISTRIBUTION OF “ENDING BELIEFS”

* Consider only task 2, use the 4step file, and extract only the ending actions “accuse” (either accuse blue or red). Take the current belief for these trials and
  + Save in CSV as a vector (1 col, many rows), sorted from the lowest (0) to the highest (1)
  + plot these values as histogram, save the image
* This is because I want to verify that the Bayesian update is coded correctly on both sides of the distribution (low values < ½ and high values > ½ )

1. HAVE A LOOK AT THE SIMULATION SCRIPTS

Look at the scripts and README files in the folder /RA-Spring2020/2020\_2 Fall/Data and Analysis/Simulations/Code\_Simulation

**TO DO – NEXT WEEK**

REPLICATE ANALYSIS FROM JUNE PRESENTATION

* Look at the presentation (June 3)
* Replicate analysis and plots for the following figures - for now, only the results based on the human participants, not the simulations (“Bayes”)
  + Slide 30: Summary Results Treatment 1 (aggregate) (all 4 plots, red bars only)
  + Slide 31: Summary Results Treatment 2 (aggregate) (all 6 plots, red bars only)
  + Slide 32: Summary Results Treatment 2 (subjects) (all 6 plots, red bars only)
  + Slides 33-36: Sampling and stopping behavior Treatment 2 (Observations only)
* The code for all these plots is available (only in Matlab) in the folder **/RA-Spring2020/2020\_1 Spring/MatlabCode**, but it should still help to save some time (start from the MAIN file and follow the order of the scripts as they appear (nested)