Frydman and Jin (QJE 2021): Data and Code ReadMe File

The raw data for the experiments in the paper are separated into three Stata data files: finalrisky.dta, perceptual.dta, and final200.dta.

1) finalrisky.dta is a Stata file that contains data from the risky choice task from Experiment 1 (USC lab; N = 150 subjects; Feb 2020)

```
****** VARIABLE DEFINITIONS ******
```

2) perceptual.dta is a Stata file that contains data from the perceptual choice task from Experiment 1 (subjectID matches that from the risky choice task) (USC lab; N = 150 subjects; Feb 2020)

***** VARIABLE DEFINITIONS ******

^{*}x: value of *X*

^{*}c: value of *C*

^{*}riskyonleft: equals 1 if risky option was on left part of screen; equals 0 if risky option was on right part of screen

^{*}risky: equals 1 if subject chose risky lottery; equals 0 if subject chose certain option

^{*}rt: response time (seconds)

^{*}trial: trial #

^{*}subj: subjectID (1 to 150)

^{*}highfirst: equals 1 if first condition was high volatility condition; equals 0 if first condition was low volatility condition

^{*}high: equals 1 if trial belongs to high volatility condition; equals 0 if trial belongs to low volatility condition

^{*}match: equals 1 if common trial; equals 0 if non-common trial

^{*}afteradapt: equals 1 if trial is after the initial 30-trial adaptation period in each condition; equals 0 otherwise

^{*}highx: high * x *highc: high * c

^{*}num: stimulus number

^{*}correct: equals 1 if correct classification; equals 0 if error

^{*}rt: response time (seconds)

^{*}trial: trial #

^{*}subj: subjectID (1 to 150)

^{*}highfirst: equals 1 if first condition was high volatility condition; equals 0 if first condition was low volatility condition

^{*}high: equals 1 if trial belongs to high volatility condition; equals 0 if trial belongs to low volatility condition

^{*}classify: equals 1 if subject classified number as greater than 65; equals 0 if classified as less than 65

```
*distance: |num - 65|
```

3) final 200. dta is a Stata file that contains data from Experiment 2 (Prolific; N = 200 subjects; Feb 2021)

***** VARIABLE DEFINITIONS ******

```
*subj: subjectID (1 to 200)
```

****Analysis files for regression tables and in-text statistical tests****

The associated .do files to run the regressions and in-text statistical tests are given by: "regression_exp1_risky.txt", "regression_exp1_perceptual.txt", and "regression_exp2.txt".

****Structural estimation****

Structural estimation was implemented in Matlab. The output of the individually estimated parameters for the perceptual task, and the restricted ($\alpha = 1$) and unrestricted ($\alpha \le 1$) models for the risky choice task are located in "structural_estimation_output.xlsx".

^{*}highdistance: distance * high

^{*}lrt: log(rt)
*diff: num – 65
*diffhigh: diff * high

^{*}trial: trial #

^{*}x: value of X

^{*}c: value of C

^{*}riskyonleft: equals 1 if risky option was on left part of screen; equals 0 if risky option was on right part of screen

^{*}risky: equals 1 if subject chose risky lottery; equals 0 if subject chose certain option

^{*}rt: response time (seconds)

^{*}bonus: randomly selected bonus amount

^{*}cond: equals 1 if trial belongs to "increasing" condition; equals 0 if trial belongs to

[&]quot;decreasing" condition

^{*}quiz1: answer to Quiz Question 1 (values "1" or "2"; "1" is correct answer)

^{*}quiz2: answer to Quiz Question 2 (values "1" or "2"; "1" is correct answer)

^{*}match: equals 1 if common trial; equals 0 if non-common trial

^{*}variationflag: equals 1 if subject is to be excluded based on insufficient variation in choice on non-common trials (exclusion criteria are listed in the pre-registration document); equals 0 otherwise

^{*}xcond: x * cond

^{*}correctquiz: equals 1 if subject passed quiz; equals 0 if subject failed quiz

^{*}secondhalf: equals 1 if trial is in second half of condition (after trial 150 in first condition; and after trial 450 in second condition); equals 0 otherwise

****Figures****

1) Model-based figures

- **Figure I:** the program that produces Figure I is "plot_Figure_I.m" in the folder figure_files/theory
- **Figure II:** the program that produces Figure II is "plot_Figure_II.m" in the folder figure_files/theory
- **Figure III:** the program that produces Figure III is "plot_Figure_III.m" in the folder figure_files/theory
- **Figure IX:** the program that produces Figure IX is "plot_Figure_IX.m" in the folder figure_files/theory

2) Data-based figures

• Figure V

- o **Panel A of Figure V:** the program that produces Panel A of Figure V is "plot_Figure_VA.m" in the folder figure_files/experiment
- o **Panel B of Figure V:** the program that produces Panel B of Figure V is "plot_Figure_VB.m" in the folder figure_files/experiment
- **Figure VI:** the program that produces Figure VI is "plot_Figure_VI.m" in the folder figure_files/experiment
- **Figure VIII:** the program that produces Figure VIII is "plot_Figure_VIII.m" in the folder figure_files/experiment