

Manual for reproduction code accompanying:

## Heterogeneity in Risky Choice Behaviour in a Broad Population

Hans-Martin von Gaudecker and Arthur van Soest and Erik Wengström

### 1 Automatic reproduction

For a very simple way to reproduce everything, you need a Linux/MacOS machine with Python (tested with 2.5.x), SCons (tested with 1.2.0), an Intel Fortran compiler (tested with 10.1), Stata (minimum Intercooled, version 9 and higher), and a LaTeX system (tested with TeXLive 2009, you will need the AEA package from the AER's website, tested with November 2009 version) in order to run things smoothly. Doing this on a multi-processor cluster is highly recommended.

Simply type in the root directory: `scons mode=data` to set up all data files in the directory `data/formatted/txt/`. These are needed by the Fortran scripts doing the actual estimation.

Open the file `programs/main_estimation/SConscript` and change the settings in `submit_str1` and `submit_str2` for submission to the batch queue according to your cluster's guidelines. Type in the root directory:

`scons mode=main`. Wait for a couple of days (at least on 4 Intel XEON Quad-Core CPUs with 2.83GHz). The output is written in the folders with model names (kp = Kreps-Porteus, ca = CARA, la = Loss Aversion, PT = Prospect Theory, PTCRRA = Prospect Theory with CRRA preferences; the f/s suffix referring to the "full" specifications with all covariates and the "simple" ones) underneath `programs/main_estimation/` in self-explanatory directories (restr/free referring to whether the covariance matrix is restricted to be diagonal or not).

Type in the root directory `scons mode=post`. The final LaTeX document is produced in the directory `paper`, all tables and figures used in the paper (and some more) are produced in the directories beneath it.

## 2 Manual reproduction

Go to the directory `programs/create_datasets` and open the file `SConscript`. Look for those lines starting with `env.Stata` and run the do-files appearing after the `source` keyword in the order in which they appear.

Go to each of the directories in `programs/main_estimation/` (except for `lib_local`), compile and run the Fortran programs, first the `restr` version, then the `free` version (the order matters in the standard setting, the `free` versions get their starting values from the former). Check out `submit_str1` in the file `programs/main_estimation/SConscript` to see how compilation works.

Go to the directory `programs/post_estimation` and open the file `SConscript`. Look for those lines starting with `env.Stata` and run the do-files appearing after the `source` keyword in the order in which they appear.

Go to the directory `paper` and compile the LaTeX document using `pdflatex`.