"**Exploring the randomness of mentally generated head-tail sequences**"

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## Codes R:

- **Code_R_Model_Section3.1.r**
  Code R that shows how to estimate the z-LM $SLMC_k(r)$ models described in Section 3.1 using the *est_lm_cov_latent* function in the R package LMest.
- **Code_R_Model_LM_gMTD_Section3.2.r**
  Code R to estimate the LM_gMTD models described in Section 3.2 and to replicate the fitting results reported in Table 4 (models 19 to 22).
- **Code_R_Model_LM_MTD_Section3.2.r**
  Code R to estimate the LM_MTD models described in Section 3.2 and to replicate the fitting results reported in Table 4 (models 23 to 27).
- **Code_SAS_Model_Section3.3.sas**
  Code SAS that implements the mixture $2\text{-}SLMC_6(2)$ model finally selected to fit the data (model 33 in Table 4) and described in Section 3.3.

**Data files:** we provide the dataset in different forms, each of which has been tabulated to be directly loaded by the previous codes.

- **Data_models_section3.1.txt**
  Data formated to be used in the code: *Code_R_Model_Section3.1.r*
- **Data_models_section3.2.txt**
  Data formated to be used in the codes: *Code_R_Model_LM_gMTD_Section3.2.r* and *Code_R_Model_LM_MTD_Section3.2.r*. Each head-tail sequence produced by each individual in the sample is tabulated in different columns.
- **Data_models_section3.3.txt**
  Data formatted to be used in the SAS code: *Code_SAS_Model_Section3.3.sas*. Previously, it is necessary to import  this txt file to SAS environment.

As stated within our article, this supplementary material related to this publication can be found through the link:

http://www.statmod.org/smij/archive.html