***Model recovery – section 3.4***

The R file **LMM\_Recovery.R** sets simulation parameters and runs the model recovery described in section 3.4 of the paper. It runs simulations by calling the **LMM\_fun.R** file. It applies the results of the simulation to the SMS model using the model file **LMM.txt**

***Model comparison – section 3.5***

The **modelComparison.R** file runs the model comparison described in section 3.5 of the paper. It applies loads the data from the Fraser and Nettle (2019) reference, and applies the three models using the **CC\_group.txt**, **EWA\_group.txt**, and **LMM\_group.txt** model files. DICs are available by reviewing the samples. Data must be retrieved from the authors’ figshare <https://figshare.com/articles/Data_and_code_for_Fraser_and_Nettle_Hunger_affects_social_decisions_in_a_Public_Goods_Game_but_not_an_Ultimatum_Game_/11807346/1>

***Case 1: multiplication factor – section 4.1***

The **multiplicationFactor\_ttest.R** file applies the Bayesian hierarchical t test using the **multiplicationFactor\_ttest.txt** model file. The model is applied to the data from the Burton-Chellew, Maxwell, Nax, & West (2014) reference. Data must be retrieved from the authors’ Dryad <https://datadryad.org/stash/dataset/doi:10.5061/dryad.cr829>

***Case 2: peer punishment – section 4.2***

The **altruisticPun\_ttest.R** file applies the Bayesian hierarchical t test using the **altruisticPun \_ttest.txt** model file. The model is applied to the data from the Fraser and Nettle (2019) reference. Data must be retrieved from the authors’ figshare <https://figshare.com/articles/Data_and_code_for_Fraser_and_Nettle_Hunger_affects_social_decisions_in_a_Public_Goods_Game_but_not_an_Ultimatum_Game_/11807346/1>

***Case 3: cultural influence – section 4.3***

The **civic\_norms\_GLM.R** file applies the Bayesian hierarchical linear model using the **civic\_norms \_GLM.txt** model file. The model is applied to the data from the Herrmann, Thöni, and Gächter (2017) reference. Data must be retrieved from the authors’ dryad <https://datadryad.org/stash/dataset/doi:10.5061/dryad.87301>