

UK REF 2014 Analysis Data and R Script

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Abstract

This collection of files contains the raw data and R script for the paper entitled 'The UK Research Excellence Framework and the Matthew Effect: Insights from machine learning.'

Data:

The file **balbuena_REF_2014.dta** is a Stata 12 file that contains the data for the paper. It is also saved in CSV format as **Balbuena_REF_2014.csv**

The file **balbuena_ref_syntax.R** contains the syntax used to run the analysis.

The file **balbuena_REF.RData** file contains the data objects in RData format. See the instructions below if you wish to replicate the analysis. To simply view the data in Excel without re-running the analysis, the universities in the training set ($n = 79$) and testing set ($n=30$) are provided in the excel file "REF_2014_schools.xls"

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Protocol

Step 1.

Open the syntax file in R / RStudio.

Step 2.

Load the RData file using the command Session | Load Workspace. If you wish to import the Stata or Excel files (#1), use the Part I section of the syntax file. Otherwise, go straight to Part II.

Step 3.

Run the commands line by line or only the parts you wish to replicate.

Step 4.

If you wish to replicate the BART analysis only, go straight to Part III after having loaded the data.