

Readme file of R scripts and datasets for
“Is being an only child harmful for psychological
health?: Evidence from an instrumental variable
analysis of China’s One-Child Policy”
by Shuxi Zeng, Fan Li and Peng Ding

Description

This package contains R scripts for implementing the approaches proposed in the paper “Is being an only child harmful for psychological health?: Evidence from a local instrumental variable analysis of China’s One-Child Policy” by Zeng, Li and Ding, and the dataset from the empirical application of the paper.

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Datasets

CFPS_2010.csv	Cleaned CFPS data
Codebook.xlsx	Codebook for the CFPS data
cfps2010adult_report_nat092014.dta	Original CFPS data, can be downloaded from http://www.issp.pku.edu.cn/cfps/EN/ with authorization.

R Scripts

Data_Reading.R	Loading the CFPS data
Data_Loading.R	Transform the data into the format for JAGS model
JAGS_MODEL.R	Functions define the model used in JAGS config
JAGS_Sampling.R	Main Script to perform MCMC, save the posterior sample
Average_Estimands.R	Calculate the estimands defined in average, as well as the MTE, produce results for Figure 2
Average_Utility_Func.R	Required functions for <code>Average_Estimands.R</code>
OtherMethods.R	Implement other methods as comparison, produce results for Figure 4
OtherMethods_Utility_Func.R	Required functions for <code>OtherMethods.R</code>
JAGS_Model_SA.R	JAGS model config for sensitivity analysis
JAGS_Sampling_SA.R	Perform MCMC for sensitivity analysis
simulation_help.R	Some helper functions to run simulations
simulation_main.R	Main script to run simulation and draw Figure 6
simu.sh	Bash script to run simulations
Figureplotting.R	Reproduce all figures in the paper
Main_Outline.R	Outline the procedures to produce all the results