

**Readme file of R codes and datasets for**

**“Is being only child harmful for psychological health?:**

**Evidence from a local instrumental variable analysis of**

**China’s One-Child Policy”**

**by Shuxi Zeng, Fan Li and Peng Ding**

**Description**

This folder contains contains several R code files for implementing the approaches proposed in the paper “Is being 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 applications of the paper.

**Authors**

Shuxi Zeng

E-mail:shuxi.zeng@duke.edu

Fan Li

E-mail: fl35@duke.edu

Peng Ding

E-mail: pengdingpku@gmail.com

**R Code Files**

`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
Firststage_Plotting.R	Plotting the Probability of being treated, produce results for Figure 1
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 5
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 8.
Figure1-8.R	Reproduce Figure 1-8 the paper
Main_Outline.R	Outline the procedures to produce all the results

## Datasets

IFPPR.txt	Data for the instrumental variables
CFPS_Cleaned_Data.RData	Cleaned CFPS data
cfps2010adult_report_nat092014.dta	Original CFPS data, can be downloaded from <a href="http://www.issp.pku.edu.cn/cfps/EN/">http://www.issp.pku.edu.cn/cfps/EN/</a> with authorization.