E Instruction on Source Code

All data cleaning and model estimations are implemented in R platform. The source code file `PeerEffect_942870.zip` includes:

- One instruction file: `readmefirst.pdf`, which is same with this instruction.
- One original dataset cleaned by Dr. Livia Shkoza: `data_network2.csv`
- Eight R programming scripts
- Seven Rdata files

Table E.1 gives the instructions on eight R programming scripts

File	**Descriptions**	**Instruction**
`PeerEffect_fun.R`	Self-written functions for this project	Instructions can be found in the file
`PeerEffect_matrix.R`	Clean the dataset again by removing NAs; Construct the block matrix for directed and undirected network; Primary test by fitting ERGM models	In the end, it will produce main dataset and save as: kgpclean.Rdata kgpcleanmat.Rdata kgpcleanmat_undirt.Rdata kgpcleanblock.Rdata kgpcleanblock_undirt.Rdata need load `PeerEffect_fun.R`
kgpclean.Rdata: main dataset includes all network information and all covariate variables kgpcleanmat.Rdata: a list including 101 directed network adjacency matrix kgpcleanmat_undirt.Rdata: a list including 101 undirected network adjacency matrix kgpcleanblock.Rdata: a block directed adjacency matrix kgpcleanblock_undirt.Rdata: a block undirected adjacency matrix or matrix G in the model		
`PeerEffect_model1.R`	Code for model 1	Need load the above Rdatas and `PeerEffect_fun.R`
`PeerEffect_model2mle.R`	Code for model 2(MLE)	Need load the above Rdatas and `PeerEffect_fun.R`
`PeerEffect_model2sls.R`	Code for model 2(2SLS)	Need load the above Rdatas and `PeerEffect_fun.R`
`PeerEffect_model3.R`	Code for model 3	Need load the above Rdatas and `PeerEffect_fun.R`
`PeerEffect_simulation.R`	Code for simulation on 2SLS	Need load the above Rdatas and `PeerEffect_fun.R` It will save results simresults.Rdata simdensity.Rdata
`PeerEffect_plot.R`	Company code for plotting the figures	Need run with different models, in has same figure indexes with this paper