

"Robots and Jobs: Evidence from US Labor Markets"

by D. Acemogly and P. Restrepo (JPE, 2019)

This folder contains the data and programs required to replicate the Tables and Figures reported in the main text and in the appendix of the paper.

Folder content:

- **clean_data:** includes all the dataset recalled by the do files and required to replicate the analysis. The dataset *czone_integrators.dta* required to reproduce the results of Table A8 could not be shared at this moment. Please contact Prof. Nancey Green Leigh (nleigh@coa.gatech.edu) for information and access to the data.
- **dofiles:** includes all the STATA do files required to replicate the analysis.
- **results:** empty folder that works as a repository for the Table and Figures produced by the do files.

Instructions:

1) Preliminary set-up before running the programs:

I) Before Running the do files to replicate the analysis please make sure to install the following accessory user-written commands (in Stata, type command *ssc install* followed by) :

```
spmap  
maptile  
ssaggregate  
ftools  
reghdfe  
ivreghdfe  
ivreg2  
texsave
```

Note: Please ensure that the version of the *reghdfe* installed on your computer is 5.6.8 03mar2018 or newer (to check the version, type "*reghdfe, version*" on the Stata command window). If you need to update the version, type

```
ssc install reghdfe
```

Further documentation on the command is available at Sergio Correia's [page](#).

II) Install the geography file required to create the map of Commuting Zones in 1990 (Figure 4), by typing the following line in the Stata command window:

```
maptile_install using "http://files.michaelstepner.com/geo_cz1990.zip"
```

III) Download the package developed by [Goldsmith-Pinkham, Sorkin and Swift \(2018\)](#) and available on P. Goldsmith-Pinkham's [github page](#) (this is required to run the analysis reported in Table A21 "Rotemberg weights")

IV) Add the do file *texsave_simple.do* (included in the *dofiles* folder and developed by Julian Reif) to your personal ado file folder (which you can find by typing *sysdir* in the command stata window, typically "c:\ado\personal\")

Notice that this command is only required to export the results of the Rotemberg weights (Table A21) to Latex

III) To replicate the LASSO procedure for the selection of the covariates (Table A28):

- 1- Identify the personal ado file directory by typing *sysdir* in the Stata Command window
- 2- Download the code for Lasso (*lassopack*) developed by Christian Hansen from his [Code and Data](#) page.
- 3- Add the ado files to your personal ado folder identified in step 1(typically: c:\ado\personal)

2) Replicate findings reported in Table and Figures

a) open the file *main-executer.do* included in the *dofies* folder and replace the path to this folder at line 14 (for example:)

```
global project "C:\Users\Name\Folder\Repkit_Robots_and_Jobs"
```

The file *main-executer.do* launches all the do files required to replicate the figures and tables reported in the paper. The folder *maindo* includes the dofiles to reproduce the results reported in the main text, the folder *appendixdo* contains the do files to reproduce the results reported in the appendix.

b) The output Tables or Figures created by the dofiles are stored in the folder *results*