ReadMe File for
Loneliness, Mental Health and the Work-From-Home Revolution
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Overview

This repository contains the replication materials for the paper. The analysis is conducted using R, and it is structured around three main scripts. Please run the scripts in this order:

1. **Data_select_merge.R (R)**: Merges datasets. Produces the final mapping from O*NET to ISCO88, and classifies occupations as teleworkable or not-teleworkable.

2. **estimate_event_studies_and_dd.R (R)**: Defines key variables. Cleans data. Evaluates attenuation bias. Estimates main differences-in-differences and event studies estimates. Estimates heterogeneity by personality (not in paper).Produces ()

3. **get_results_tables.R (R)**: Produces main results tables and figures.

In order to target the correct directories, you will need to paste into the code the directory in which you are storing data and the directory into which you would like tables and figures to be saved.

The code will look like the following, and is in the first few lines of every script:

```
data.directory<-[your data directory]
output.directory<-[your output directory]
```

Data Availability Statement

This paper utilizes the following data sets:

1. UK CPI index, **CPI_Index.CSV**, available in the replication folder

2. Dingel and Neiman (2020) classification of occupations by teleworkability, available at `https://github.com/jdingel/DingelNeiman-workathome/tree/master`. The file name is **occupations_workathome.CSV**

3. Special license version of UKHLS which includes occupation at a 4-digit level. The data can be searched at the UK data service: `https://ukdataservice.ac.uk/`. The raw data are from Study Number 6931. You will need to make a special license application.

4. **isco88_soc00.DTA** and **soc00_soc10.DTA** are crosswalks between SCO and ISCO88 occupation definitions, initially from Hardy (2016). These are available in the replication folder.

Paste all raw data into the data directory.

Software and Running Time

- **Software**: R version 4.4.0.
- **Total Run Time**:
  - Data_select_merge.R: 9 minutes
  - estimate_event_studies_and_dd.R: 12 hours (using Viking Cluster)
  - get_results_tables.R: 3 minutes

R packages

Package	Version
haven	2.5.4
fixest	0.12.1
lmtest	0.9-40
synthdd	1.5.1
did	2.3.0
stringr	1.6.0
car	3.1-5
stargazer	5.2.3

Summary of Outputs

Main Tables

Table	Script Used
Table 1	get_results_tables.R
Table 2	get_results_tables.R
Table 3	estimate_event_studies_and_dd.R
Table 4	estimate_event_studies_and_dd.R
Table 5	get_results_tables.R
Table 6	get_results_tables.R
Table 7	get_results_tables.R
Table 8	get_results_tables.R
Table B.1	get_results_tables.R
Table B.2	get_results_tables.R
Table B.3	get_results_tables.R
Table B.4	get_results_tables.R
Table D.1	get_results_tables.R
Table E.1	get_results_tables.R
Table F.1	get_results_tables.R
Table F.2	get_results_tables.R
Table G.1	get_results_tables.R
Table G.2	get_results_tables.R

Main Figures

Figure	Script Used
Figure 1	get_results_tables.R
Figure 2	get_results_tables.R
Figure 3	get_results_tables.R
Figure 4	get_results_tables.R
Figure 5	get_results_tables.R
Figure 6	get_results_tables.R
Figure 7	get_results_tables.R
Figure 8	get_results_tables.R
Figure A.1	get_results_tables.R
Figure B.1	get_results_tables.R
Figure B.2	get_results_tables.R
Figure B.3	get_results_tables.R
Figure B.4	get_results_tables.R
Figure C.1	estimate_event_studies_and_dd.R
Figure C.2	estimate_event_studies_and_dd.R

References

Dingel, Jonathan I and Brent Neiman (2020). "How many jobs can be done at home?" In: *Journal of public economics* 189, p. 104235.

Hardy, Wojciech (2016). `https://ibs.org.pl/en/resources/occupation-classifications-crosswalks-from-onet-soc-to-isco/`. Accessed: 2021-08-05.