Presentation 0501

Boyu, Chen R11323006

2023-05-01

Research Topic

- 1. During the pandemic, is the **well-being index** of home workers lower?
- 2. Whether the **time allocation** of home workers differed significantly from that of the control group.

Data & variable

Data

IPUMS Time Use data 2020 & 2021

Well-being index variable

0 for the worst life, 10 for the best life

Time variables

exercise time, social time, sleep time, commute time, work time, self-care time. (unit: minutes per day)

Treatment

Distance working or not

Control variables

Occupation, industry, family size, race, sex, ... etc.

Empirical strategy

variables:

- ightharpoonup Outcome var. (Y): well-being & Time use
- ▶ Treatment (D): Distance working or not
- Control var. (X): occupation, industry, family size, race, sex, . . . etc.

pdslasso

The occupation and industry are categorical data, when we put these two variable into the regression, it will be a lot of dummies, so we use LASSO here to kick off those unimportant control variables.

psmatch

After controlling **all** the workers' characteristics, how working form home affect well-being/Time allocation.

Further Analysis

Subgroup Analysis

Put interaction term into model, such as age × WFH, sex × WFH.

Mediation Analysis

$$D|X \stackrel{lpha}{ o} TimeUse \stackrel{eta}{ o} WellBeing$$
 $D|X \stackrel{\gamma}{ o} WellBeing$

To check whether if α and β are significant.