ITUS 2019 data cleaning

Folder location: **\Dropbox (The University of Manchester)\IATUR\ITUS**

STEP 1 Two measurement approaches

* Original data: **\Data\timeuse.dta**
* Data layout (variable names): **Data\_Layout\_TUS106.xls**
* Data cleaning: **data\_cleaning\_26052021.do**
* [Step 1a] Data with the conservative definition of work: combine major activities only (majoracitivity==1)

1) All activities: **\Data\timeuse\_conservative\_all.dta** (N=9,436,777)

2) Summary per person id : **\Data\timeuse\_conservative.dta** (N=445,299, I used *keep if activity\_id==1*)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Variable | Activity\_1digit | Obs | Mean | Std. Dev. | Min | Max |
| time | major activity==1 | 445,299 | 2.1 | 0.9 | 0 | 16 |
| time\_employment | Activity\_1digit==1 | 445,299 | 2.9 | 4.1 | 0 | 23 |
| time\_goods | Activity\_1digit==2 | 445,299 | 0.4 | 1.4 | 0 | 15.5 |
| time\_domestic | Activity\_1digit==3 | 445,299 | 2.3 | 3.0 | 0 | 17.5 |
| time\_caregiving | Activity\_1digit==4 | 445,299 | 0.4 | 1.0 | 0 | 19.5 |
| time\_otherunpaid | Activity\_1digit==5 | 445,299 | 0.0 | 0.4 | 0 | 16.5 |
| time\_learning | Activity\_1digit==6 | 445,299 | 1.6 | 3.3 | 0 | 21 |
| time\_social | Activity\_1digit==7 | 445,299 | 1.5 | 1.8 | 0 | 21 |
| time\_leisure | Activity\_1digit==8 | 445,299 | 2.5 | 2.2 | 0 | 21 |
| time\_selfcare | Activity\_1digit==9 | 445,299 | 12.3 | 2.1 | 0 | 24 |
| time\_economic | Activity\_1digit==1-2 | 445,299 | 3.3 | 4.1 | 0 | 23 |
| time\_unpaidservice | Activity\_1digit==3-5 | 445,299 | 2.8 | 3.4 | 0 | 19.5 |
| time\_anywork | Activity\_1digit==1-5 | 445,299 | 6.1 | 4.3 | 0 | 23.5 |
| time\_total | Activity\_1digit==1-9 | 445,299 | 24.0 | 0.1 | 0 | 24 |

* [Step 1b] Data with the exhaustive definition of work:

Add hours for no simultaneous activities (multiple but not simultaneous activities) corresponding to the number of activities (15 mins for two non-simultaneous activities each, 10 mins for three non-simultaneous activities each). Because we combine simultaneous activities (e.g. 3 simultaneous activities in one 30-min slot are counted as 90 minutes), the total number of hours is over 24 hrs with the presence of simultaneous activities. So, we apply the adjust ratio and make the sum of 24 hours.

1) All activities: **\Data\timeuse\_exhaustive\_all.dta** (N=9,436,777)

2) Summary per person id: **\Data\timeuse\_exhaustive.dta** (N=445,299, I used *keep if activity\_id==1*)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Variable | Activity\_1digit | Obs | Mean | Std. Dev. | Min | Max |
| time\_new\_adj |  | 445,299 | 2.1 | 0.9 | 0.0 | 16.0 |
| time\_employment | Activity\_1digit==1 | 445,299 | 2.6 | 3.8 | 0.0 | 23.0 |
| time\_goods | Activity\_1digit==2 | 445,299 | 0.4 | 1.3 | 0.0 | 15.2 |
| time\_domestic | Activity\_1digit==3 | 445,299 | 2.2 | 2.8 | 0.0 | 16.5 |
| time\_caregiving | Activity\_1digit==4 | 445,299 | 0.4 | 1.0 | 0.0 | 19.5 |
| time\_otherunpaid | Activity\_1digit==5 | 445,299 | 0.0 | 0.4 | 0.0 | 16.1 |
| time\_learning | Activity\_1digit==6 | 445,299 | 1.5 | 3.1 | 0.0 | 17.0 |
| time\_social | Activity\_1digit==7 | 445,299 | 2.4 | 2.0 | 0.0 | 21.1 |
| time\_leisure | Activity\_1digit==8 | 445,299 | 2.6 | 2.1 | 0.0 | 17.5 |
| time\_selfcare | Activity\_1digit==9 | 445,299 | 11.8 | 2.0 | 0.0 | 24.0 |
| time\_economic | Activity\_1digit==1-2 | 445,299 | 3.1 | 3.8 | 0.0 | 23.0 |
| time\_unpaidservice | Activity\_1digit==3-5 | 445,299 | 2.7 | 3.2 | 0.0 | 19.5 |
| time\_anywork | Activity\_1digit==1-5 | 445,299 | 5.3 | 4.0 | 0.0 | 23.5 |
| time\_total | Activity\_1digit==1-9 | 445,299 | 24.0 | 0.1 | 0.0 | 24.0 |

\*Time\_new\_adj: (Non-multiple activities or simultaneous activities) + (Multiple but not simultaneous activities/no. of activities) AND adjusted by ratio if the sum is over 24.

STEP 2 ILO Definition of Labour

* [Step 2a] Variable ILO1982 is equal to the variable “time\_employment”.
* [Step 2b] Variable ILO2013 is equal to the variable “time\_economic”.