Gruppeoppgave

Kandidatnummer??

Høst 2025

Laste inn data

```
library(haven) # Lese inn data sett
library(dplyr) # Databehandling
##
## Attaching package: 'dplyr'
## The following objects are masked from 'package:stats':
##
##
       filter, lag
## The following objects are masked from 'package:base':
##
##
       intersect, setdiff, setequal, union
library(fixest) # Regresjon
## Warning: package 'fixest' was built under R version 4.3.3
df <- read_dta("data/Combined_allwaves_final.dta") # Leser data</pre>
df <- df |>
  mutate(miss_age_PAP = ifelse(is.na(age_med_BL), 1, 0)) |>
  mutate(age_med_BL_control= ifelse(is.na(age_med_BL), 0, 1))|>
  mutate(miss_household_size= ifelse(is.na(household_size), 1, 0))|>
  mutate(household_size_control= ifelse(is.na(household_size), 0, household_size)) |>
  mutate(miss_edu_category= ifelse(is.na(edu_nohs_BL), 1, 0))|>
  mutate(edu_nohs_BL_control= ifelse(is.na(edu_nohs_BL), 0, edu_nohs_BL))|>
  mutate(married_control= ifelse(is.na(married), 0, married)) |>
  mutate(divorced_separated_control= ifelse(is.na(divorced_separated), 0,
  divorced_separated))|>
  mutate(single_control= ifelse(is.na(single), 0, single))|>
  mutate(widowed_control= ifelse(is.na(widowed), 0, widowed))|>
  mutate(miss_relationship= ifelse(is.na(rel_status_BL), 1, 0))|>
  mutate(miss_cars= ifelse(is.na(cars), 1, 0))|>
  mutate(one_car_control= ifelse(is.na(one_car), 0, one_car))|>
  mutate(mult_cars_control= ifelse(is.na(mult_cars), 0, mult_cars))|>
```

```
mutate(miss_LF_BL= ifelse(is.na(LF_BL), 1, 0))|>
  mutate(LF_BL_control= ifelse(is.na(LF_BL), 0, LF_BL)) |>
  filter(endline_start_w3==1)
s_train <- feols(s_train_bi_w3~ treatment + age_med_BL_control + miss_age_PAP + edu_nohs_BL_control
      + miss_edu_category + married_control + single_control + widowed_control
      + miss_relationship + household_size_control + miss_household_size + one_car_control
      + miss_cars + LF_BL_control + miss_LF_BL |randomization_cohort2, cluster = c("file_nbr"), data = 6
## NOTE: 34 observations removed because of NA values (LHS: 34).
## The variable 'age_med_BL_control' has been removed because of collinearity (see $collin.var).
licence <- feols(license_w3~ treatment + age_med_BL_control + miss_age_PAP + edu_nohs_BL_control
     + miss_edu_category + married_control + single_control + widowed_control
     + miss_relationship + household_size_control + miss_household_size + one_car_control
      + miss_cars + LF_BL_control + miss_LF_BL |randomization_cohort2, cluster = c("file_nbr"), data = 6
## NOTE: 34 observations removed because of NA values (LHS: 34).
## The variable 'age_med_BL_control' has been removed because of collinearity (see $collin.var).
empl <- feols(employed_w3~ treatment +age_med_BL_control + miss_age_PAP + edu_nohs_BL_control
      + miss_edu_category + married_control + single_control + widowed_control
      + miss_relationship + household_size_control + miss_household_size + one_car_control
      + miss_cars + LF_BL_control + miss_LF_BL |randomization_cohort2, cluster = c("file_nbr"), data = 6
## NOTE: 13 observations removed because of NA values (LHS: 13).
## The variable 'age_med_BL_control' has been removed because of collinearity (see $collin.var).
not_empl <- feols(unemployed_w3~ treatment + age_med_BL_control + miss_age_PAP + edu_nohs_BL_control
      + miss_edu_category + married_control + single_control + widowed_control
      + miss_relationship + household_size_control + miss_household_size + one_car_control
      + miss_cars + LF_BL_control + miss_LF_BL |randomization_cohort2, cluster = c("file_nbr"), data = -
## NOTE: 13 observations removed because of NA values (LHS: 13).
## The variable 'age_med_BL_control' has been removed because of collinearity (see $collin.var).
controls <- c("miss_age_PAP", "age_med_BL_control", "miss_edu_category", "married_control",</pre>
              "widowed_control", "miss_relationship", "household_size_control", "miss_household_size",
              "one_car_control", "mult_cars_control", "miss_cars", "LF_BL_control", "LF_BL_control",
              "edu_nohs_BL_control", "single_control", "miss_LF_BL", "Constant", "randomization_cohort2
tit <- "Treatment Effects on Individual Outcomes and Intrahousehold Responses"
fitstat_register("control_mean", function(x) mean(x), "Control mean")
fitstat_register("mean", function(x) mean(x, na.rm = T), "control_m")
```

```
fitstat_register("pval", function(x) pvalue(x), "p-value b = 0")
fitstat_register("mean_c",
                 function(x){
                   name <- x$fml[2] |> as.character()
                   xer <- df |>
                   filter(treatment == 0) |>
                   select(name) |> pull()
                   mean(xer,na.rm = T)
                   },
                 "Control mean"
)
fitstat_register("me",
                 function(x){
                   name <- x$fml[2] |> as.character()
                   xer <- df |>
                   filter(treatment == 0) |>
                   select(name) |> pull()
                   x$coefficients[1] / mean(xer,na.rm = T)
                   },
                 "b/Control mean"
etable(s_train, licence,
       se.below=T,
       drop = controls,
       title =tit,
       digits = "r3", digits.stats = "r3",
       tex = T,
       signif.code = NA,
       dict=c(treatment = "Treatment",
              s train bi w3 = "Started driver's training",
              license_w3 = "Received license",
              randomization_cohort2 = ""),
       style.tex = style.tex("qje", ),
       fitstat = ~ n + mean_c +me + pval)
## \begin{table}[htbp]
##
      \caption{Treatment Effects on Individual Outcomes and Intrahousehold Responses}
##
      \bigskip
##
      \centering
      \begin{tabular}{lcc}
##
##
         \tabularnewline\midrule\midrule
##
                        & Started driver's training & Received license\\
##
                        & (1)
                                                     & (2)\\
##
         \midrule
##
         Treatment
                        & 0.619
                                                     & 0.430\\
                        & (0.040)
##
                                                     & (0.039)\\
```

```
//
##
##
         Observations
                        & 467
                                                     & 467\\
                                                     & 0.102\\
##
         Control mean & 0.192
##
         b/Control mean & 3.229
                                                     & 4.221\\
##
         p-value b = 0 & 0.000
                                                     & 0.000\\
##
          //
##
          fixed effects & $\checkmark$
                                                     & $\checkmark$\\
         \midrule \midrule & \tabularnewline
##
      \end{tabular}
## \end{table}
etable(empl,not_empl ,
       se.below=T,
       drop = controls,
       title =tit,
       digits = "r3", digits.stats = "r3",
       tex = T,
       signif.code = NA,
       dict=c(treatment = "Treatment",
              employed_w3 = "Employed",
              unemployed_w3 = "Unemployed",
              randomization_cohort2 = ""),
       style.tex = style.tex("qje", ),
       fitstat = ~ n + mean_c +me + pval)
## \begin{table}[htbp]
##
      \caption{Treatment Effects on Individual Outcomes and Intrahousehold Responses}
##
      \bigskip
##
      \centering
      \begin{tabular}{lcc}
##
##
         \tabularnewline\midrule\midrule
##
                        & Employed
                                        & Unemployed\\
##
                        & (1)
                                        & (2)\\
##
         \midrule
##
         Treatment
                        & 0.085
                                        & -0.105\\
##
                        & (0.043)
                                        & (0.049)\\
##
##
         Observations
                        & 488
                                         & 488\\
         Control mean & 0.210
##
                                        & 0.569\\
##
         b/Control mean & 0.405
                                        & -0.185\\
##
         p-value b = 0 & 0.049
                                        & 0.032\\
##
          //
##
          fixed effects & $\checkmark$ & $\checkmark$\\
##
         \midrule \midrule & \tabularnewline
##
      \end{tabular}
## \end{table}
etable(empl,
       se.below=T, tex = T)
## \begingroup
## \centering
## \begin{tabular}{lc}
```

```
\tabularnewline \midrule \midrule
##
##
      Dependent Variable:
                                  & employed\_w3\\
      Model:
                                  & (1)\\
##
##
      \midrule
      \emph{Variables}\\
##
##
      treatment
                                  & 0.0849$^{**}$\\
##
                                  & (0.0430)\\
                                  & -0.0930$^{**}$\\
##
      edu\_nohs\_BL\_control
##
                                  & (0.0466)\\
##
      miss\_edu\_category
                                  & 6.48\times 10^{-5}\
##
                                  & (0.1610)\\
##
                                  & 0.0369\\
      married\_control
##
                                  & (0.0583)\\
##
      single\_control
                                  & 0.0389\\
##
                                  & (0.0614)\\
##
      widowed\_control
                                  & -0.0901\\
##
                                  & (0.0872)\\
##
      miss\_relationship
                                  & 0.2994\\
##
                                  & (0.2955)\\
##
      household\_size\_control
                                  & 0.0015\\
##
                                  & (0.0074)\\
##
      miss\_household\_size
                                  & $-9.21\times 10^{-5}$\\
##
                                  & (0.1529)\\
##
      one\ car\ control
                                  & -0.0124\\
##
                                  & (0.0421)\\
##
      miss\_cars
                                  & 0.2367\\
##
                                  & (0.1568)\\
##
      LF\_BL\_control
                                  & 0.0773\\
##
                                  & (0.0487)\\
##
      miss\_LF\_BL
                                  & -0.8586$^{**}$\\
##
                                  & (0.3694)\\
##
      \midrule
##
      \emph{Fixed-effects}\\
##
      randomization\_cohort2
                                  & Yes\\
##
      \midrule
##
      \emph{Fit statistics}\\
##
      Observations
                                  & 488\\
##
      R$^2$
                                  & 0.06672\\
      Within R$^2$
##
                                  & 0.04894\\
##
      \midrule \midrule
      \multicolumn{2}{1}{\emph{Clustered (file\ nbr) standard-errors in parentheses}}\\
##
      \multicolumn{2}{1}{\emph{Signif. Codes: ***: 0.01, **: 0.05, *: 0.1}}\\
##
## \end{tabular}
## \par\endgroup
```