

Report on Efficient Data Management in R

Denis Cohen, Cosima Meyer, Marcel Neunhoeffer & Oliver Rittmann

17 February 2020

R Markdown

This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents. For more details on using R Markdown see <http://rmarkdown.rstudio.com>.

When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

```
load(file = "../processed-data/ess-proc.RData")

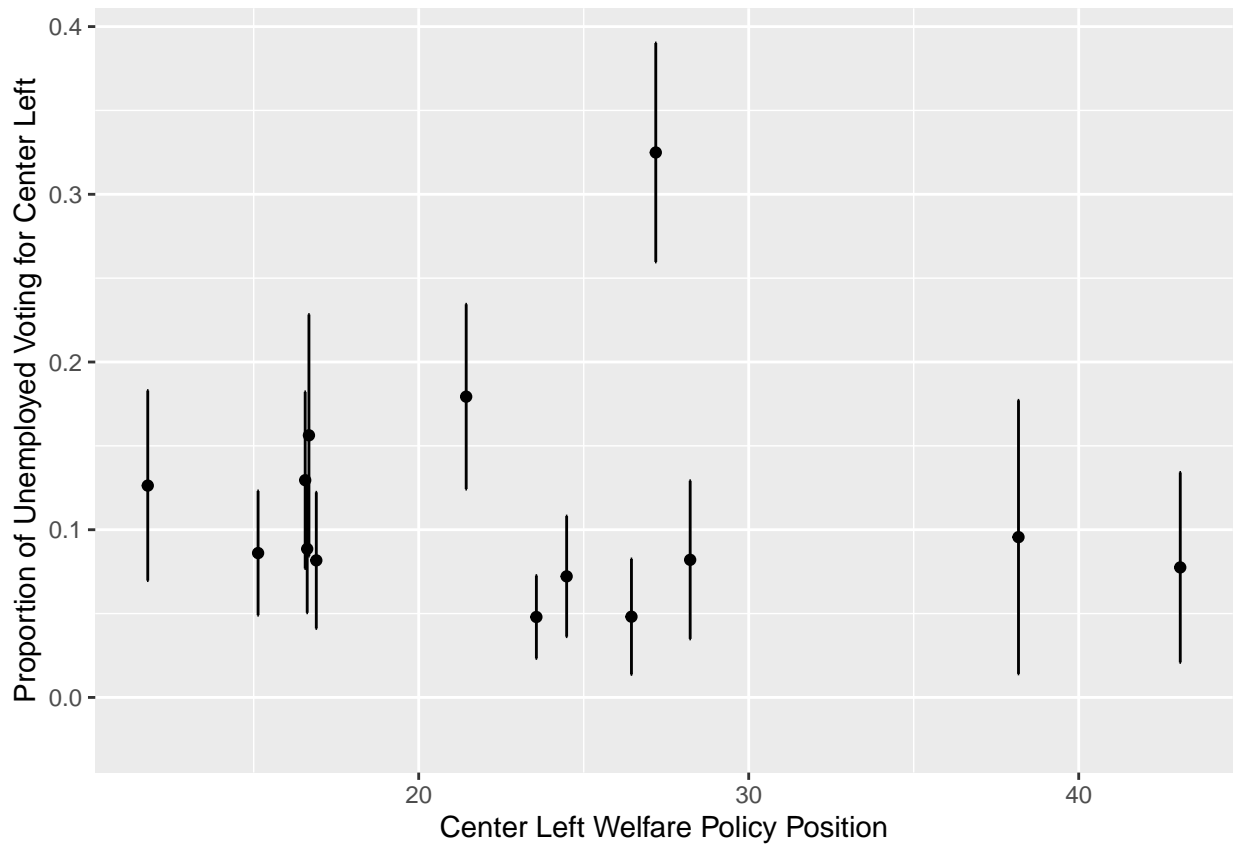
##### Working with the data

## ----inference-----
ess_est <- ess %>%
  mutate(v_center_left = (v_center_left == "Yes")) %>%
  group_split(cntry) %>%
  lapply(function(dat) {
    mod <- glm(v_center_left ~ uemp5yr,
              data = dat,
              weights = dweight)
    pred <- predict(mod,
                   newdata = data.frame(uemp5yr = "Yes"),
                   se.fit = TRUE)
    pos_welfare <- unique(dat$welfare)
    output <- data.frame(
      est = pred$fit,
      lower95 = pred$fit + qnorm(.025) * pred$se,
      upper95 = pred$fit + qnorm(.975) * pred$se,
      welfare = unique(dat$welfare)
    )
    return(output)
  }) %>%
  bind_rows()
```

In this code chunk we load our data set and do inference.

Including Plots

Finally, we also want to produce and include a plot to our manuscript. We will also save the plot to the figures folder. So we could reuse the plot e.g. in a presentation.



Note that the `echo = FALSE` parameter was added to the code chunk to prevent printing of the R code that generated the plot.