Models

library(tidyverse)
library(stargazer)

```
library(sandwich)
data <- read_rds("../data/processed/main_state_data.RDS")</pre>
## All below done in Python Now ##
####################################
# Colnames: replace spaces with underscore,
# remove parantheses, metacharacters () must be enclosed in []
#colnames(data) <- gsub(" ", "_", colnames(data))</pre>
#colnames(data) <- gsub("[()]", "", colnames(data))</pre>
head(data)
data$NoFaceMaskEmploy
## [39] 0 0 0 1 1 0 0 0 0 0 0 0
lm1 <- lm(Case.Rate.per.100000.in.Last.7.Days ~ SIP, data = data)</pre>
lm2 <- lm(Case.Rate.per.100000.in.Last.7.Days ~ SIP + workplaces_2020.10.10, data = data)</pre>
lm3 <- lm(Case.Rate.per.100000.in.Last.7.Days ~ SIP + workplaces_2020.10.10 + NoFaceMask, data = data)
lm4 <- lm(Case.Rate.per.100000.in.Last.7.Days ~ SIP + workplaces_2020.10.10 + NoFaceMask + NoFaceMaskEm
cov1 <- vcovHC(lm1, type = "HC1")</pre>
robust_se1 <- sqrt(diag(cov1))</pre>
cov2 <- vcovHC(lm2, type = "HC1")</pre>
robust_se2 <- sqrt(diag(cov2))</pre>
cov3 <- vcovHC(lm3, type = "HC1")</pre>
robust_se3 <- sqrt(diag(cov3))</pre>
cov4 <- vcovHC(lm4, type = "HC1")</pre>
robust_se4 <- sqrt(diag(cov4))</pre>
# Produce initial stargazer table
# Copy results to regression-tables.tex,
# Change covariate names, etc, then produce
# regression-tables.pdf which will knit into
# draft report
```

```
lm2,
         lm3,
         lm4, se = list(robust_se1, robust_se2, robust_se3, robust_se4))
##
## % Table created by stargazer v.5.2.2 by Marek Hlavac, Harvard University. E-mail: hlavac at fas.harv
## % Date and time: Wed, Dec 09, 2020 - 12:17:40 PM
## \begin{table}[!htbp] \centering
   \caption{}
##
    \label{}
## \begin{tabular}{@{\extracolsep{5pt}}lcccc}
## \[-1.8ex]\
## \hline \\[-1.8ex]
## & \multicolumn{4}{c}{\textit{Dependent variable:}} \\
## \cline{2-5}
## \\[-1.8ex] & \multicolumn{4}{c}{Case.Rate.per.100000.in.Last.7.Days} \\
## \\[-1.8ex] & (1) & (2) & (3) & (4)\\
## \hline \\[-1.8ex]
## SIP & $-$27.685$^{***}$ & $-$24.459$^{**}$ & $-$22.279$^{**}$ & $-$21.518$^{**}$ \\
    & (10.492) & (10.595) & (9.517) & (9.604) \\
##
    & & & & \\
## workplaces\_2020.10.10 & & 1.050$^{***}$ & 0.970$^{**}$ & 0.902$^{**}$ \\
    & & (0.372) & (0.407) & (0.410) \\
    & & & & \\
## NoFaceMask & & & 8.965 & 6.162 \\
    & & & (6.551) & (8.267) \\
##
    & & & & \\
## NoFaceMaskEmploy & & & & 8.745 \\
##
    & & & & (14.438) \\
##
    & & & & \\
## Constant & 52.827$^{***}$ & 72.147$^{***}$ & 65.789$^{***}$ & 63.678$^{***}$ \\
    & (10.175) & (11.744) & (11.097) & (11.376) \\
    & & & & \\
##
## \hline \\[-1.8ex]
## Observations & 51 & 51 & 51 & 51 \\
## R$^{2}$ & 0.230 & 0.290 & 0.320 & 0.329 \\
## Adjusted R$^{2}$ & 0.215 & 0.260 & 0.276 & 0.271 \\
## Residual Std. Error & 21.236 (df = 49) & 20.607 (df = 48) & 20.386 (df = 47) & 20.457 (df = 46) \\
## F Statistic & 14.662$^{***}$ (df = 1; 49) & 9.804$^{***}$ (df = 2; 48) & 7.360$^{***}$ (df = 3; 47)
## \hline
## \hline \\[-1.8ex]
## \textit{Note:} & \multicolumn{4}{r}{$^{*}$p$<$0.1; $^{**}$p$<$0.05; $^{***}$p$<$0.01} \\
## \end{tabular}
```

stargazer(lm1,

\end{table}