```
##########################
# Regression
##########################
government_hires <- all_govt_hiring %>%
 mutate(month = 1:n()) %>%
 pivot_longer(cols = c(hires_n_nj, hires_n_ct), names_to = "state", values_to = "hires") %>%
 mutate(after_policy = as.numeric(START_DATE >= "2023-10-01"),
        treated = if_else(state == 'hires_n_nj', 1, 0))
did_model <- lm(hires ~ treated * month, data = government_hires)</pre>
summary(did_model)
##
## Call:
## lm(formula = hires ~ treated * month, data = government_hires)
## Residuals:
      Min
               1Q Median
                               3Q
                                      Max
## -178.79 -41.37 -11.98
                            26.81 381.68
## Coefficients:
                 Estimate Std. Error t value Pr(>|t|)
##
                 60.83279 23.91496 2.544 0.0123 *
## (Intercept)
## treated
                218.05902 33.82086
                                      6.447 2.6e-09 ***
                            0.67081 -0.143
## month
                 -0.09614
                                              0.8863
## treated:month -0.20550
                            0.94866 -0.217
                                              0.8289
## Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' 1
## Residual standard error: 92.24 on 118 degrees of freedom
## Multiple R-squared: 0.5768, Adjusted R-squared: 0.5661
## F-statistic: 53.62 on 3 and 118 DF, p-value: < 2.2e-16
did_model2 <- lm(hires ~ treated + after_policy + treated*after_policy, data = government_hires)
summary(did_model2)
##
## Call:
## lm(formula = hires ~ treated + after_policy + treated * after_policy,
      data = government_hires)
##
## Residuals:
##
      Min
               1Q Median
                               ЗQ
                                      Max
## -168.96 -38.52 -12.27
                            23.58 367.04
##
## Coefficients:
##
                       Estimate Std. Error t value Pr(>|t|)
                                     11.59 5.242 7.07e-07 ***
## (Intercept)
                          60.77
                         219.19
                                     16.40 13.368 < 2e-16 ***
## treated
## after_policy
                         -44.52
                                     45.28 -0.983
                                                     0.3274
                                     64.03 -1.787
## treated:after_policy -114.44
                                                     0.0765 .
```

```
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## Residual standard error: 87.53 on 118 degrees of freedom
## Multiple R-squared: 0.619, Adjusted R-squared: 0.6093
## F-statistic: 63.89 on 3 and 118 DF, p-value: < 2.2e-16
government_hires_sa <- all_hiringSeasonAdj_df %>%
 mutate(month = 1:n()) %>%
 pivot_longer(cols = c(aa_nj_season_adj_hires, aa_ct_season_adj_hires), names_to = "state", values_to
 mutate(after_policy = as.numeric(year >= "2023-10-01"),
        treated = if_else(state == 'aa_nj_season_adj_hires', 1, 0))
did_model_sa <- lm(hires ~ treated * month, data = government_hires_sa)
summary(did_model_sa)
##
## Call:
## lm(formula = hires ~ treated * month, data = government_hires_sa)
## Residuals:
       Min
                 10
                     Median
                                   30
## -146.903 -17.345
                       0.841
                               22.978 111.499
##
## Coefficients:
##
                Estimate Std. Error t value Pr(>|t|)
                           11.3171 5.532 1.93e-07 ***
## (Intercept)
                 62.6115
## treated
                217.4084
                            16.0048 13.584 < 2e-16 ***
## month
                 -0.1626
                             0.3174 -0.512
                                               0.610
## treated:month -0.2067
                             0.4489 -0.460
                                               0.646
## Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' 1
## Residual standard error: 43.65 on 118 degrees of freedom
## Multiple R-squared: 0.8582, Adjusted R-squared: 0.8546
## F-statistic: 238.1 on 3 and 118 DF, p-value: < 2.2e-16
did_model_sa2 <- lm(hires ~ treated + after_policy + treated*after_policy, data = government_hires_sa)
summary(did_model_sa2)
##
## Call:
## lm(formula = hires ~ treated + after_policy + treated * after_policy,
##
      data = government_hires_sa)
##
## Residuals:
                                   3Q
##
       Min
                 1Q
                     Median
                                           Max
## -127.879 -12.463
                       1.948
                               15.189
##
## Coefficients:
##
                       Estimate Std. Error t value Pr(>|t|)
                         60.084
                                    4.715 12.743 < 2e-16 ***
## (Intercept)
                                     6.668 32.639 < 2e-16 ***
                        217.647
## treated
```

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R package version 5.2.3. https://CRAN.R-project.org/package=stargazer

% Table created by stargazer v.5.2.3 by Marek Hlavac, Social Policy Institute. E-mail: marek.hlavac at gmail.com % Date and time: Thu, May 16, 2024 - 14:24:00

Table 1:

	Dependent variable:	
	(1)	(2)
treated	219.193***	217.647***
	(16.396)	(6.668)
after_policy	-44.522	-38.317**
	(45.276)	(18.413)
treated:after_policy	-114.443*	-101.342***
- •	(64.030)	(26.041)
Constant	60.772***	60.084***
	(11.594)	(4.715)
Observations	122	122
\mathbb{R}^2	0.619	0.906
Adjusted \mathbb{R}^2	0.609	0.903
Residual Std. Error $(df = 118)$	87.533	35.599
F Statistic ($df = 3; 118$)	63.892***	377.787***
Note:	*p<0.1; **p<0.05; ***p<0.05	

Call: lm(formula = hires ~ treated * month, data = government_hires)

Residuals: Min 1Q Median 3Q Max -162.41 -41.90 -15.85 23.66 372.82

Coefficients: Estimate Std. Error t value Pr(>|t|)

(Intercept) 76.9189 31.4743 2.444 0.0171 *

treated 268.2568 44.5114 6.027 7.03e-08 *** month -0.9218 1.4441 -0.638 0.5254

treated:month -2.4587 2.0423 -1.204 0.2327

— Signif. codes: 0 '' **0.001** '' 0.01 " 0.05 '' 0.1 ' '1

Residual standard error: 93.79 on 70 degrees of freedom Multiple R-squared: 0.6092, Adjusted R-squared: 0.5924 F-statistic: 36.37 on 3 and 70 DF, p-value: 2.786e-14

Call: lm(formula = hires ~ treated + after_policy + treated * after_policy, data = government_hires)

Residuals: Min 1Q Median 3Q Max -166.33 -38.64 -10.83 25.69 346.67

Coefficients: Estimate Std. Error t value Pr(>|t|)

(Intercept) $64.64\ 15.35\ 4.210\ 7.46$ e-05 $treated\ 235.70\ 21.71\ 10.856 < 2e-16$ after_policy -48.39 $46.69\ -1.036\ 0.3036$

treated:after_policy -130.95 66.03 -1.983 0.0513.

— Signif. codes: 0 '' 0.001 '' 0.01 " 0.05 '' 0.1 '' 1

Residual standard error: 88.19 on 70 degrees of freedom Multiple R-squared: 0.6544, Adjusted R-squared: 0.6396 F-statistic: 44.19 on 3 and 70 DF, p-value: 3.884e-16

Call: lm(formula = hires ~ treated * month, data = government hires sa)

Residuals: Min 1Q Median 3Q Max -102.432 -17.107 3.512 22.510 89.947

Coefficients: Estimate Std. Error t value Pr(>|t|)

(Intercept) 79.2302 13.3630 5.929 1.04e-07 $\it treated~269.5988~18.8981~14.266 < 2e-16 {
m month}~-1.0886~0.6131~-1.775~0.08018~.$

treated:month -2.5818 0.8671 -2.978 0.00399 ** — Signif. codes: 0 '' 0.001 '' 0.01 '' 0.05 '.' 0.1 '' '1

Residual standard error: 39.82 on 70 degrees of freedom Multiple R-squared: 0.8965, Adjusted R-squared: 0.8921 F-statistic: 202.2 on 3 and 70 DF, p-value: < 2.2e-16

Call: lm(formula = hires ~ treated + after_policy + treated * after_policy, data = government_hires_sa)

Residuals: Min 1Q Median 3Q Max -146.332 -8.575 0.947 15.958 80.195

Coefficients: Estimate Std. Error t value Pr(>|t|)

(Intercept) $63.006\ 5.795\ 10.873 < 2e-16$ treated $233.179\ 8.195\ 28.454 < 2e-16$ after_policy -41.238 $17.624\ -2.340\ 0.0221\ *$

treated:after_policy -116.874 24.924 -4.689 1.31e-05 *** — Signif. codes: 0 '' 0.001 '' 0.01 " 0.05 '' 0.1 " 1

Residual standard error: 33.29 on 70 degrees of freedom Multiple R-squared: 0.9277, Adjusted R-squared: 0.9246 F-statistic: 299.3 on 3 and 70 DF, p-value: < 2.2e-16

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$$Y_{it} = \beta_0 + \beta_1 \text{Treatment}_i + \beta_2 \text{Post}_t + \beta_3 (\text{Treatment}_i \times \text{Post}_t) + \epsilon_{it}$$
 (1)

Table 2:

	Dependent variable: hires	
	(1)	(2)
treated	235.697***	233.179***
	(21.712)	(8.195)
after_policy	-48.386	-41.238**
.	(46.693)	(17.624)
treated:after_policy	-130.947*	-116.874***
	(66.034)	(24.924)
Constant	64.636***	63.006***
	(15.353)	(5.795)
Observations	74	74
\mathbb{R}^2	0.654	0.928
Adjusted \mathbb{R}^2	0.640	0.925
Residual Std. Error $(df = 70)$	88.194	33.288
F Statistic (df = $3;70$)	44.186***	299.339***
Note:	*p<0.1: **p<0.05: ***p<0.00	

Note:

*p<0.1; **p<0.05; ***p<0.01

Table 3: FALSE