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#####
# Regression
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government_hires <- all_govt_hiring %>%
  mutate(month = 1:n()) %>%
  pivot_longer(cols = c(hires_n_aa, hires_n_ba_plus), names_to = "educ", values_to = "hires") %>%
  mutate(after_policy = as.numeric(START_DATE >= "2023-10-01"),
         treated = if_else(educ == 'hires_n_aa', 1, 0))

did_model <- lm(hires ~ treated * month, data = government_hires)
#summary(did_model)

did_model2 <- lm(hires ~ treated + after_policy + treated*after_policy, data = government_hires)
#summary(did_model2)

government_hires_sa <- all_hiringSeasonAdj_df %>%
  mutate(month = 1:n()) %>%
  pivot_longer(cols = c(aa_season_adj_hires, ba_plus_season_adj_hires), names_to = "educ", values_to = "hires") %>%
  mutate(after_policy = as.numeric(year >= "2023-10-01"),
         treated = if_else(educ == 'aa_season_adj_hires', 1, 0))

did_model_sa <- lm(hires ~ treated * month, data = government_hires_sa)
#summary(did_model_sa)

did_model_sa2 <- lm(hires ~ treated + after_policy + treated*after_policy, data = government_hires_sa)
#summary(did_model_sa2)
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##

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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, Apr 25, 2024 - 15:18:22

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

Table 1:

	<i>Dependent variable:</i>	
	hires	
	(1)	(2)
treated	−443.439*** (51.252)	−437.713*** (17.369)
after_policy	−469.154*** (141.525)	−393.409*** (47.961)
treated:after_policy	310.189 (200.147)	253.751*** (67.828)
Constant	723.404*** (36.241)	715.445*** (12.282)
Observations	122	122
R <sup>2</sup>	0.419	0.857
Adjusted R <sup>2</sup>	0.404	0.853
Residual Std. Error (df = 118)	273.612	92.725
F Statistic (df = 3; 118)	28.394***	234.909***
<i>Note:</i>	*p<0.1; **p<0.05; ***p<0.01	

Table 2:

	<i>Dependent variable:</i>	
	hires	
	(1)	(2)
treated	−338.769*** (87.761)	−325.768*** (30.781)
after_policy	−369.904*** (127.933)	−271.151*** (44.870)
treated:after_policy	205.519 (180.925)	141.805** (63.456)
Constant	624.154*** (62.057)	593.187*** (21.765)
Observations	34	34
R <sup>2</sup>	0.448	0.844
Adjusted R <sup>2</sup>	0.393	0.829
Residual Std. Error (df = 30)	223.748	78.476
F Statistic (df = 3; 30)	8.110***	54.278***
<i>Note:</i>	*p<0.1; **p<0.05; ***p<0.01	