

ECON7103HW4

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1 Python

1. According to the Figure ?? 1, there are parallel trends before treatment.

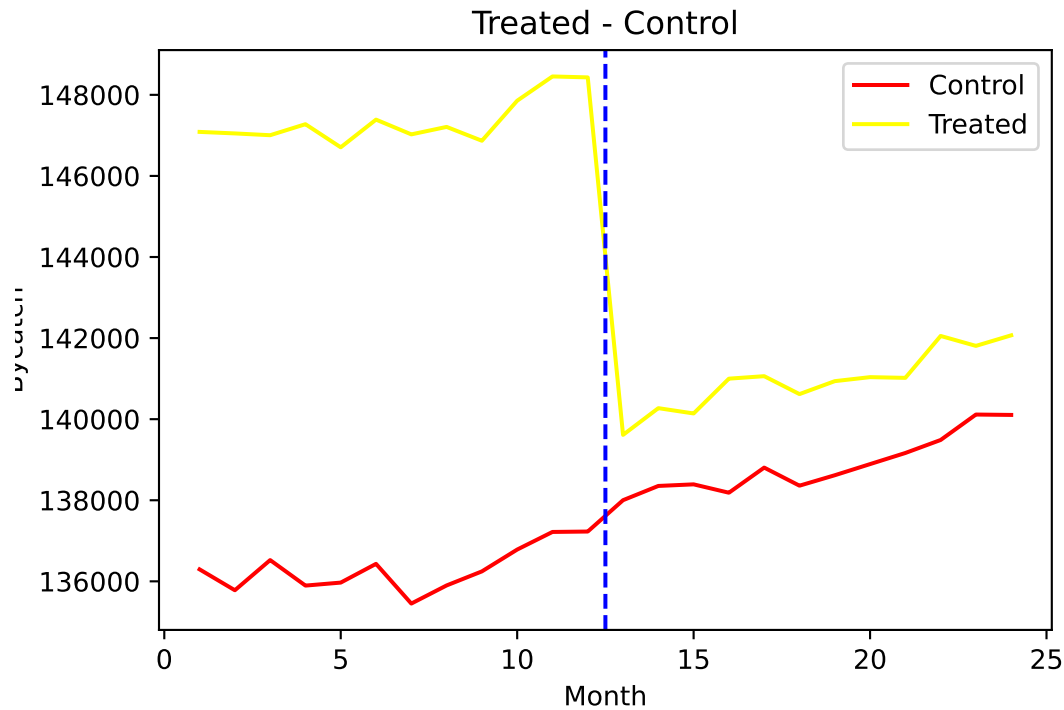


Figure 1: The figure indicates average firm bycatch in pounds for each month in 2017 and 2018

2. The estimation is -9,591 which means that treatment leads decline in treatment group.
3. See Table ?? 1 for results.

2 Stata

1. See Table ?? 2 for results.

	(1)	(2)	(3)
Alpha	138001.81 (100507.57, 175496.06)	NaN	NaN
Pre period	-773.22 (-1976.32, 429.89)	NaN	NaN
Treatment	11202.04 (-36028.81, 58432.89)	NaN	NaN
Time Treated	-9591.35 (-16085.87, -3096.83)	NaN	NaN
After-treatment	100.0	NaN	NaN
Alpha	NaN	132088.04 (96407.7, 167768.38)	NaN
Treatment	NaN	11052.45 (-35515.12, 57620.02)	NaN
Time Treated	NaN	-8956.78	NaN
After-Treatment	NaN	1200.0	NaN
Alpha	NaN	NaN	1547.01 (-675.23, 3769.24)
Treatment	NaN	NaN	-21.9 (-641.34, 597.54)
Time Treated	NaN	NaN	-8436.28 (-14111.27, -2761.3)
shrimp	NaN	NaN	1.06 (0.95, 1.16)
salmon	NaN	NaN	0.6 (0.18, 1.02)
firmsize	NaN	NaN	-2119.71

Table 1: Regression results with heteroskedasticity-robust standard errors.

	(1)	(2)
VARIABLES	model1	model2
shrimp	1.500*** (0.0708)	
salmon	-2.323*** (0.220)	
shrimp_demean		1.540*** (0.0672)
salmon_demean		1.598*** (0.444)
treated_demean		640,873*** (39,088)
Constant	366,278*** (30,113)	-259,368*** (29,480)
Observations	1,200	1,200
R-squared	0.286	0.400
Number of firm	50	50

Standard errors in parentheses

*** p<0.01, ** p<0.05, * p<0.1

Table 2: Stata Results