

ECON7103HW9

Sedat Ors

April 2024

1 Stata

1. See Figure 1
2. The average treatment effect is $-.0619874$ and its robust standard error is $.0036695$
3. See Figure 2
4. See Figure 3
5.
 - a) See Figure 4
 - b) See Figure 5 and 6
 - c) See Figure 7
 - d) See Figure 8

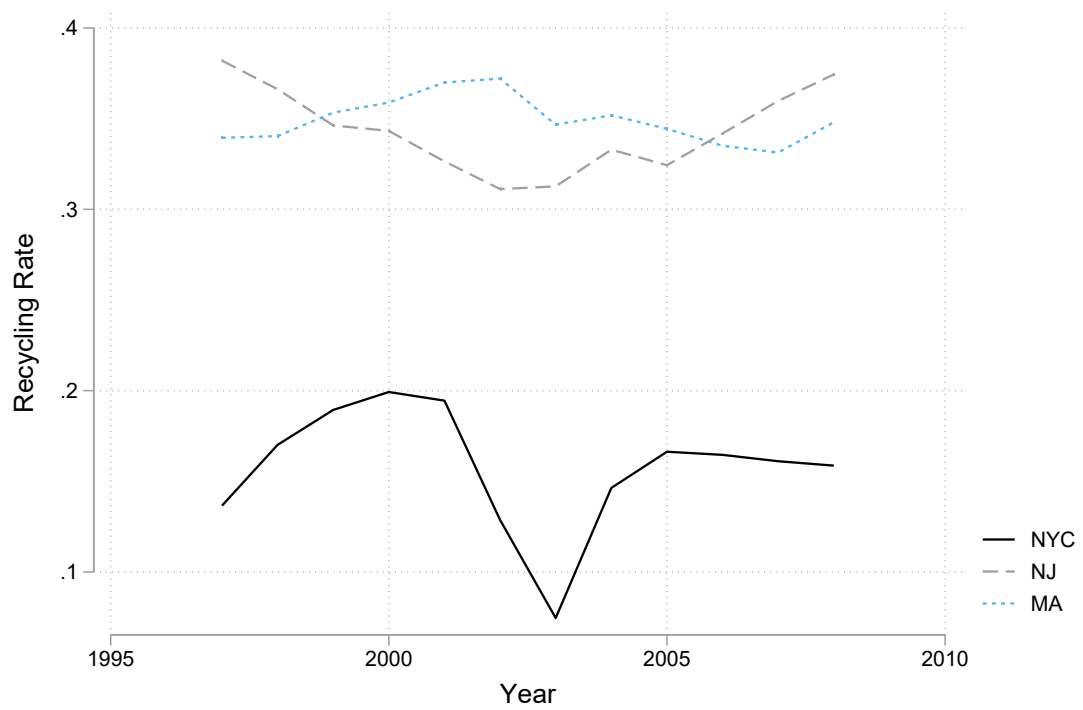


Figure 1: A yearly plot of the recycling rate for NYC and the controls

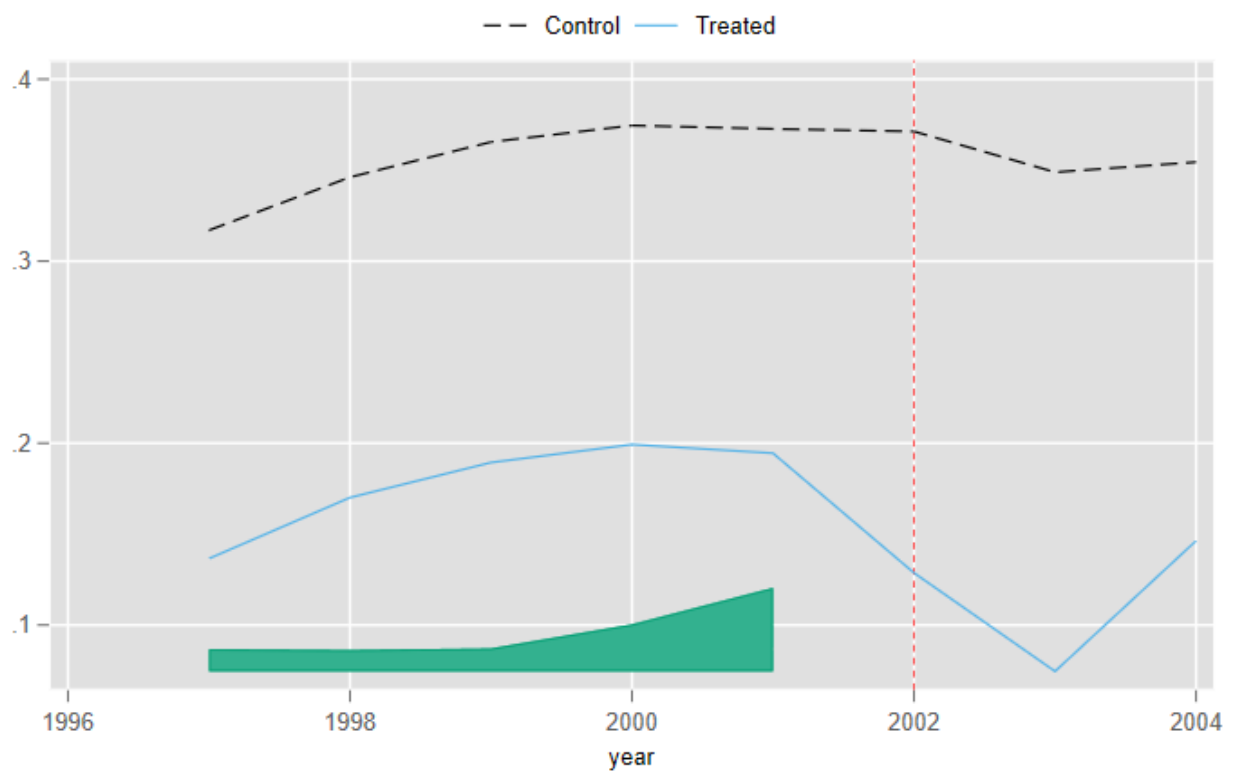


Figure 2: Synthetic DID

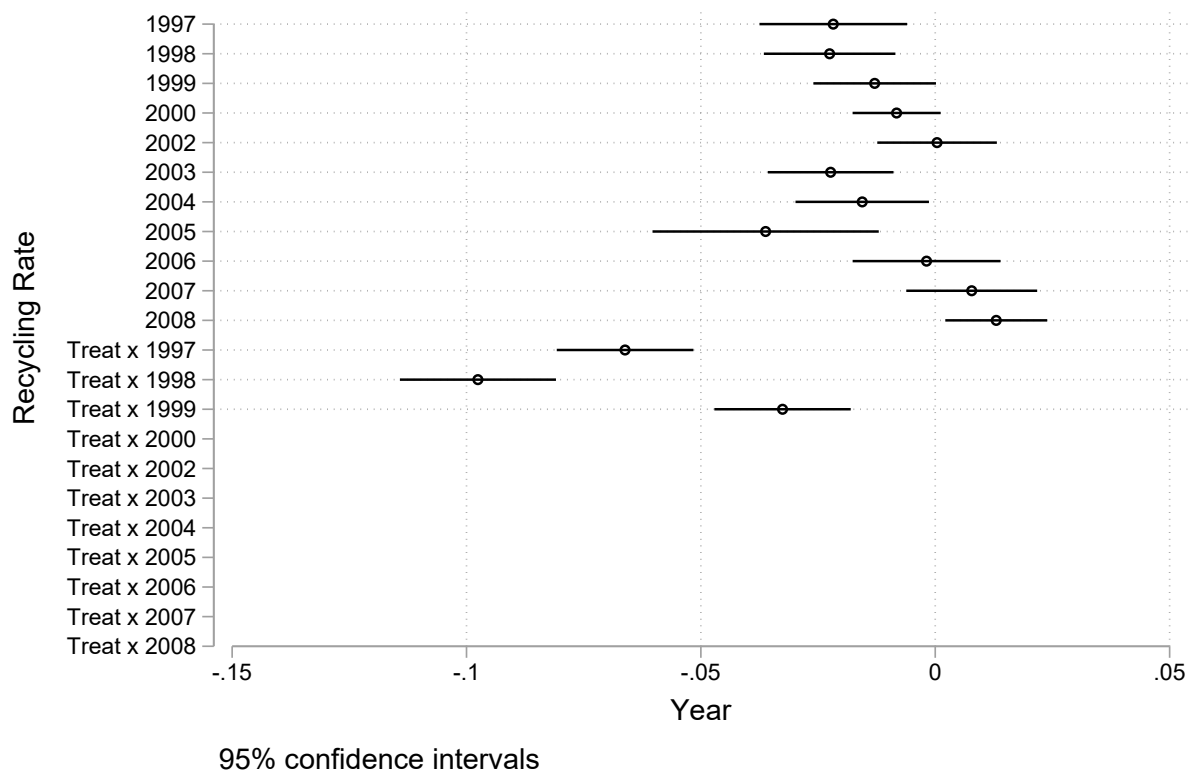


Figure 3: Event Study

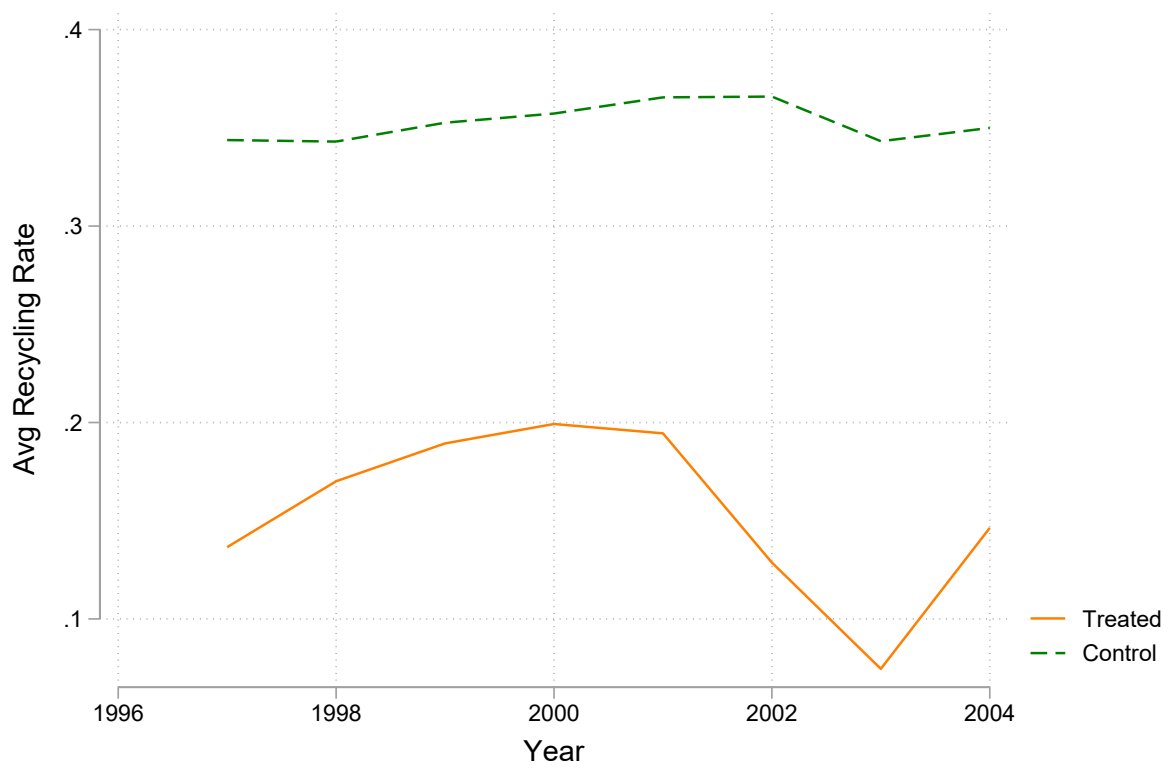


Figure 4: Raw outcomes for treated and control groups over time

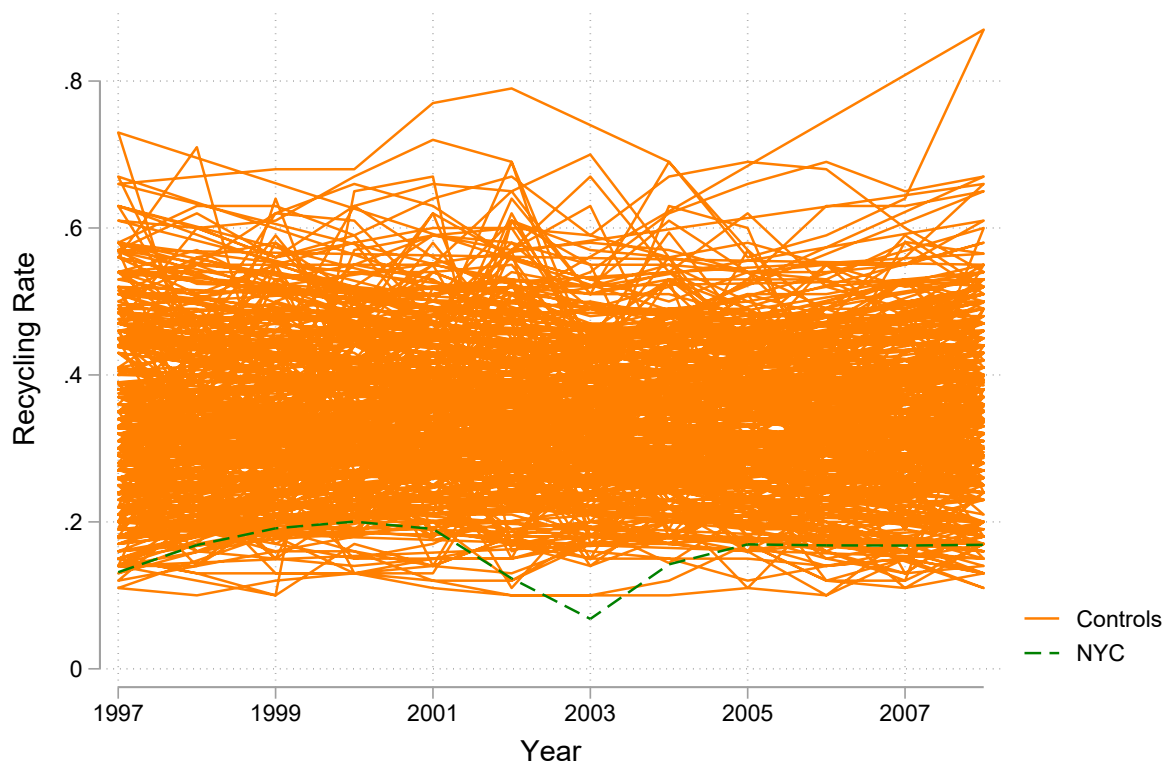


Figure 5: Raw outcomes for treated and synthetic control groups over time

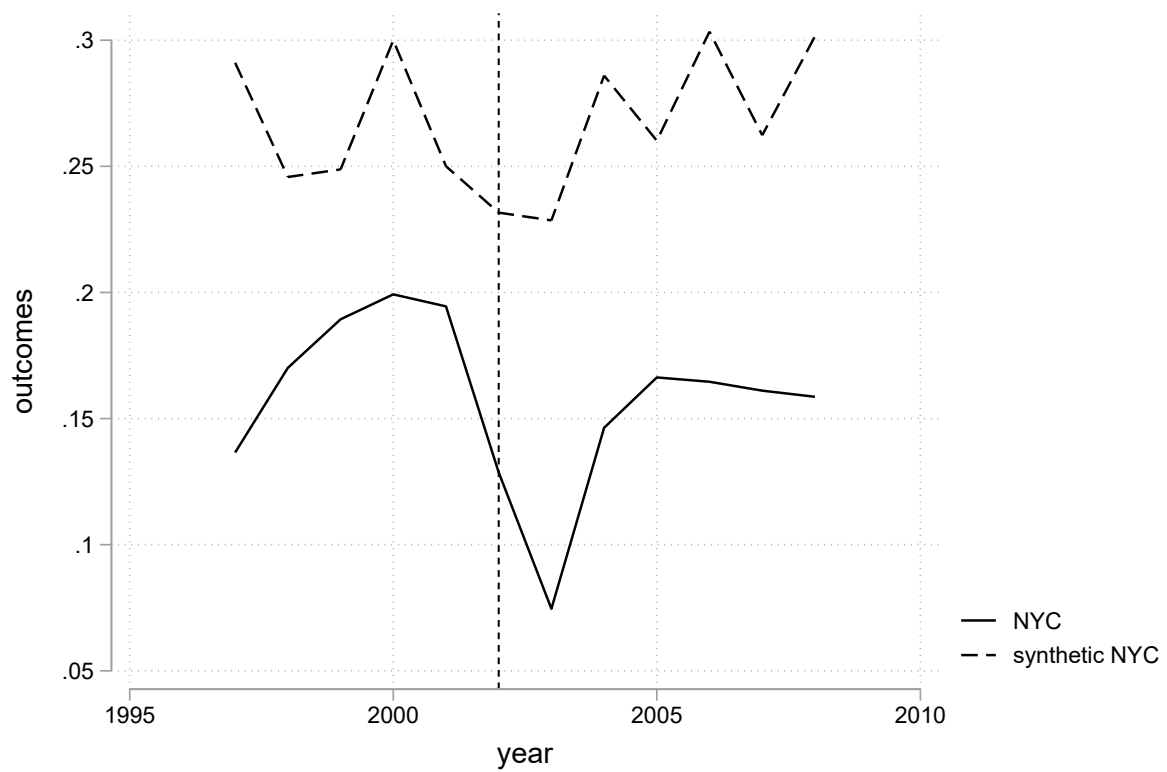


Figure 6: Estimated Synthetic controls effects over time

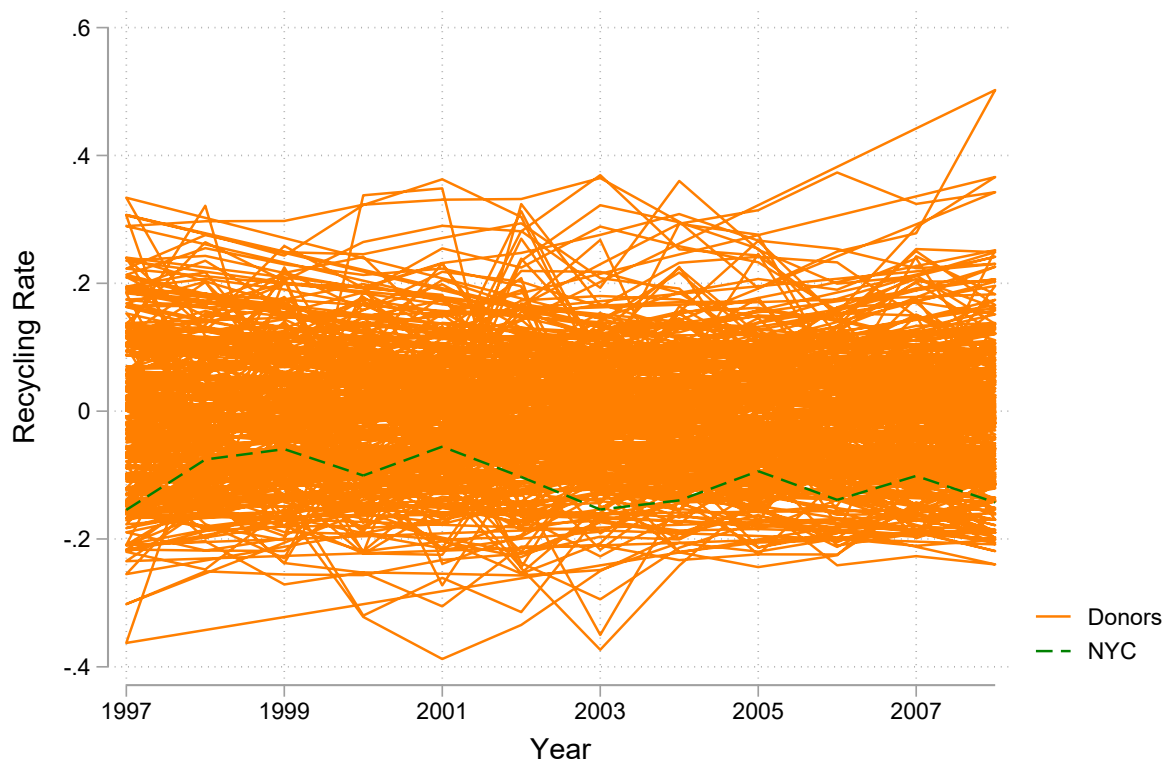


Figure 7: Estimated Synthetic controls effects and placebo effects over time

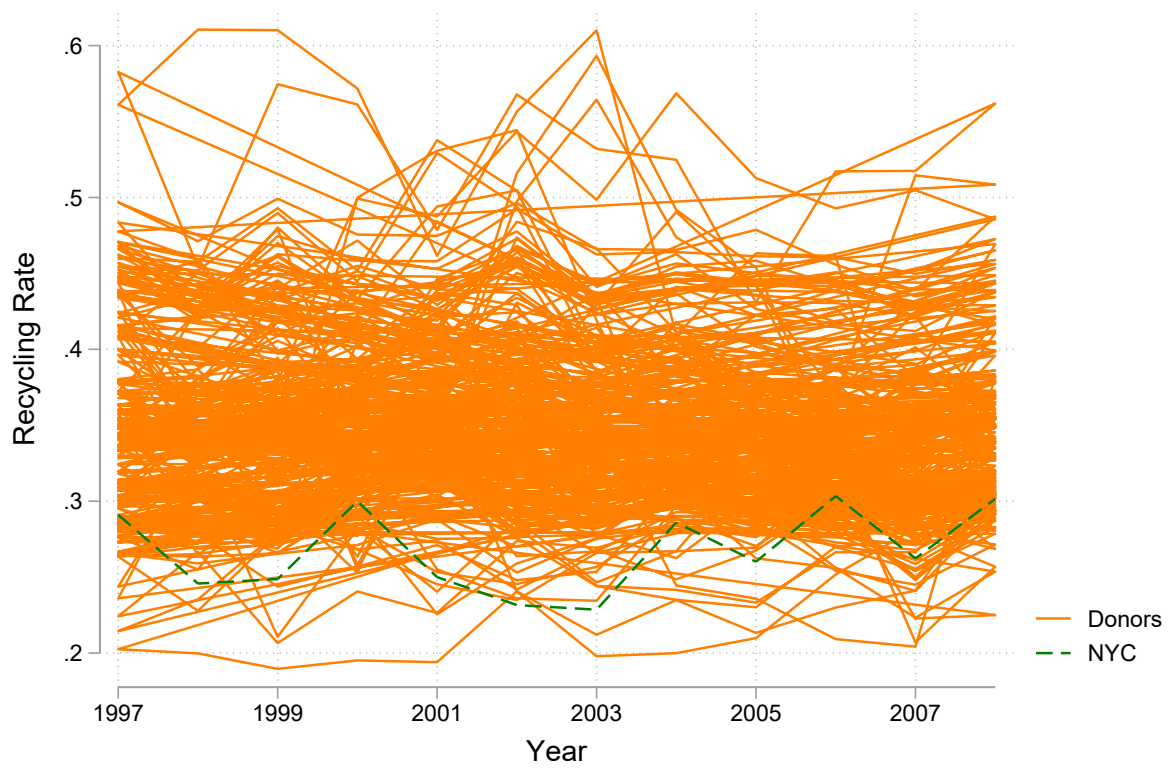


Figure 8: Final Synthetic controls estimates