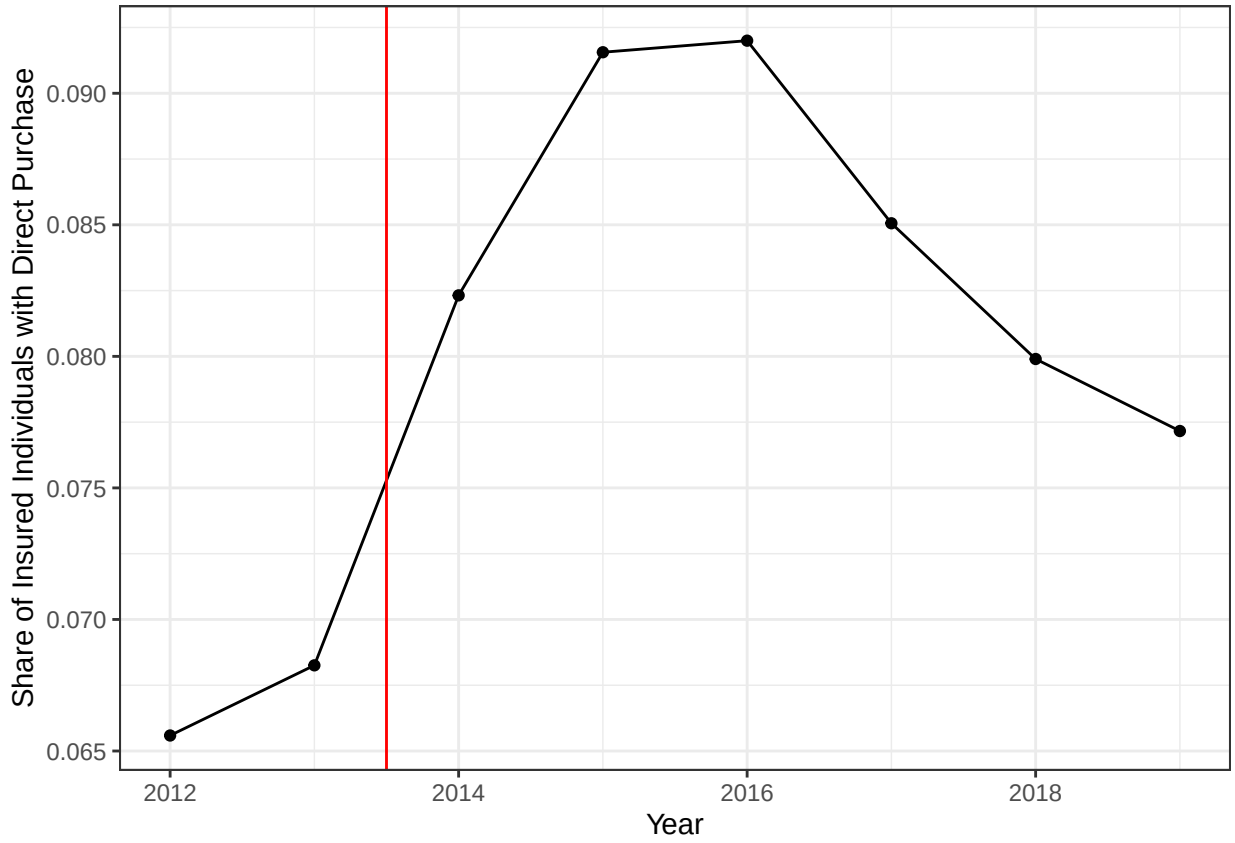
Homework 5

Virginia Sanson

17 April 2023

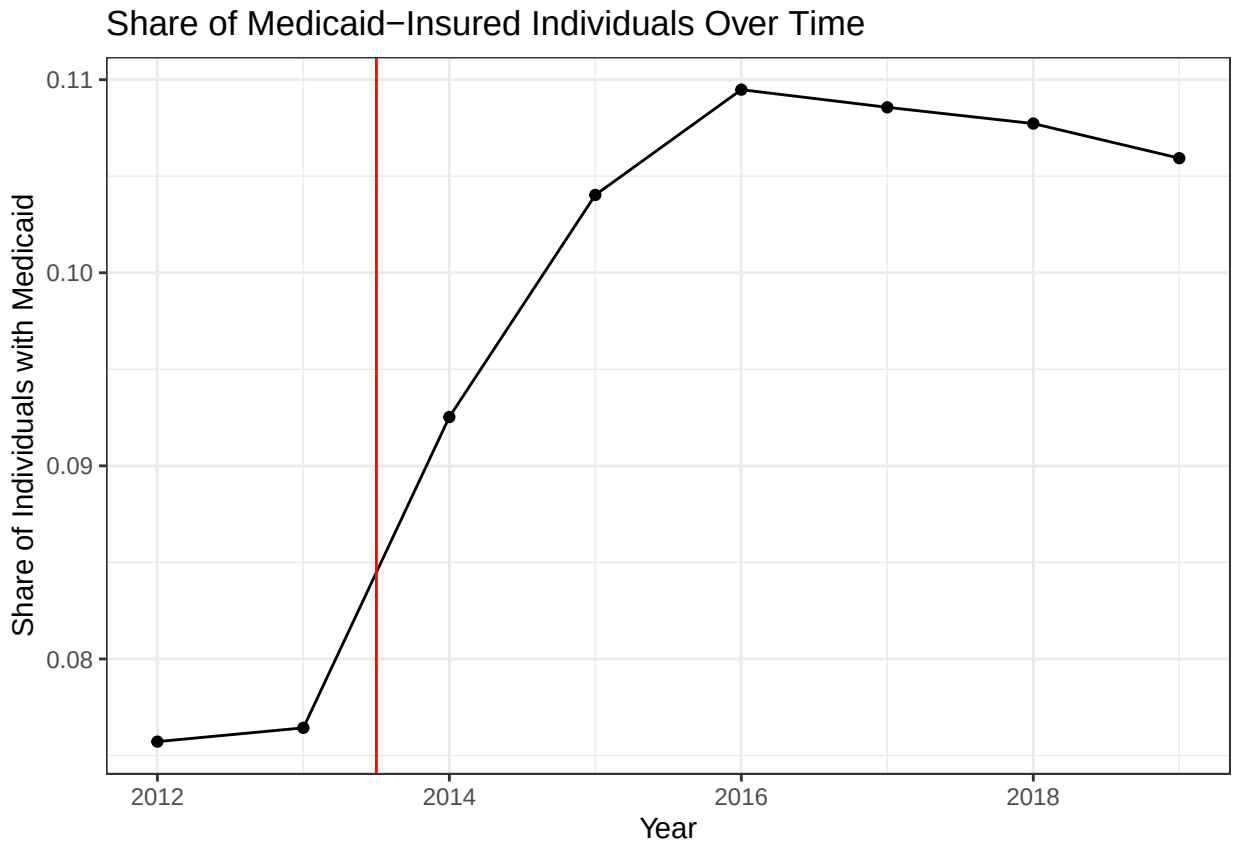
Question 1


Share of Insured Individuals with Direct Purchase
0.090
0.085
0.080
0.075
0.070
0.065
2012
2014
2016
2018
Year

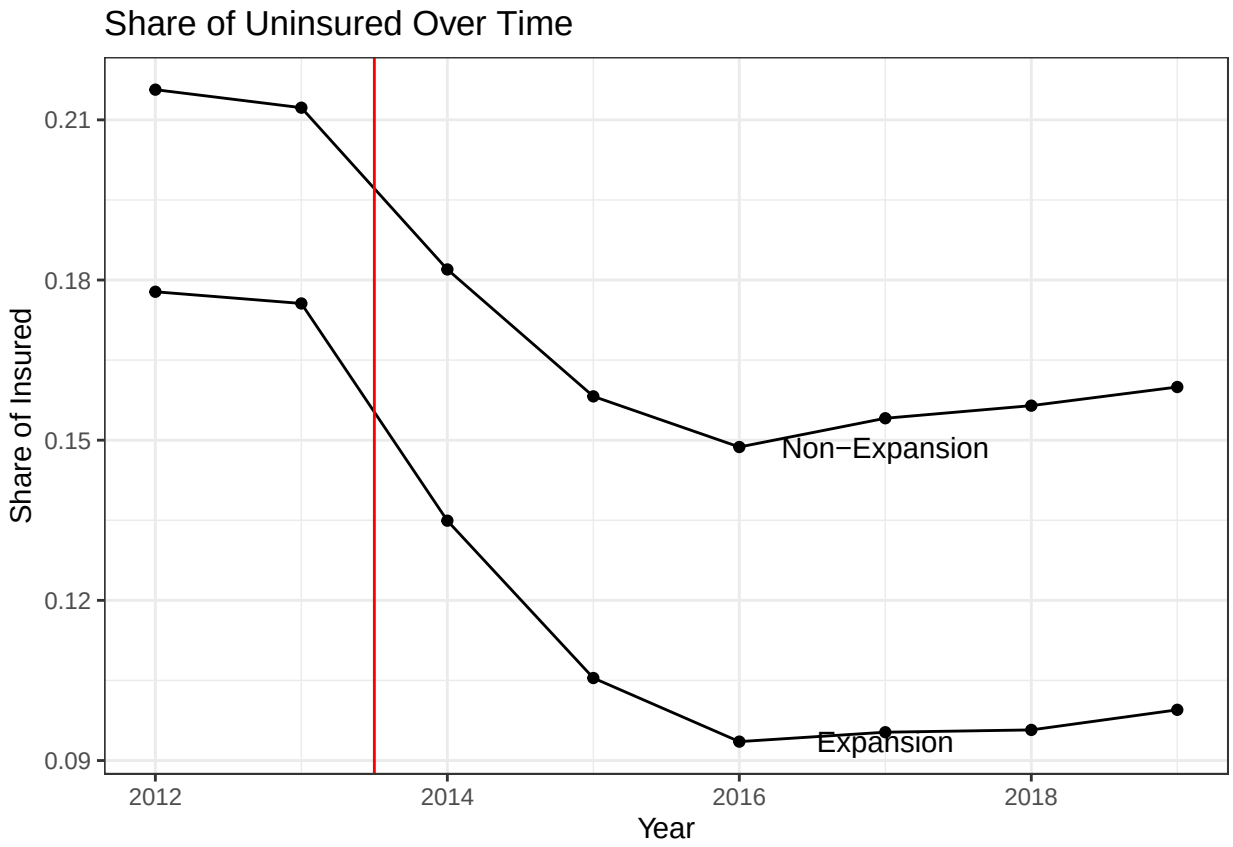
Question 2

The plot shows a reduction in the share of insured individuals with direct purchase insurance over time. This reduction could be due to the implementation of the Affordable Care Act, which allowed individuals to purchase insurance through state and federal exchanges. Additionally, the expansion of Medicaid, as individuals who were previously uninsured and eligible for Medicaid coverage may have transitioned to that program instead of purchasing private insurance.

Question 3


Share of Medicaid−Insured Individuals Over Time
Share of Individuals with Medicaid
0.11
0.10
0.09
0.08
2012
2014
2016
2018
Year

Question 4


Share of Uninsured Over Time
Share of Insured
0.21
0.18
0.15
0.12
0.09
2012
2014
2016
2018
Year
Non−Expansion
Expansion

Estimate ATEs Question 1

Group	2012	2015
Non-Expansion	0.2156531	0.1582075
Expansion	0.1777979	0.1054541

	(1)
(Intercept)	0.218
	(0.008)
postTRUE	−0.055
	(0.010)
groupTreatment	−0.048
	(0.010)
postTRUE × groupTreatment	−0.019
	(0.012)
Num.Obs.	304
R2	0.510
R2 Adj.	0.505
AIC	−1073.4
BIC	−1054.9
Log.Lik.	541.722
F	103.885
RMSE	0.04

Question 2

	(1)
treat	−0.019
	(0.008)
Num.Obs.	304
R2	0.949
R2 Adj.	0.940
R2 Within	0.081
R2 Within Adj.	0.078
AIC	−1679.8
BIC	−1508.8
RMSE	0.01
Std.Errors	by: State
FE: State	X
FE: year	X

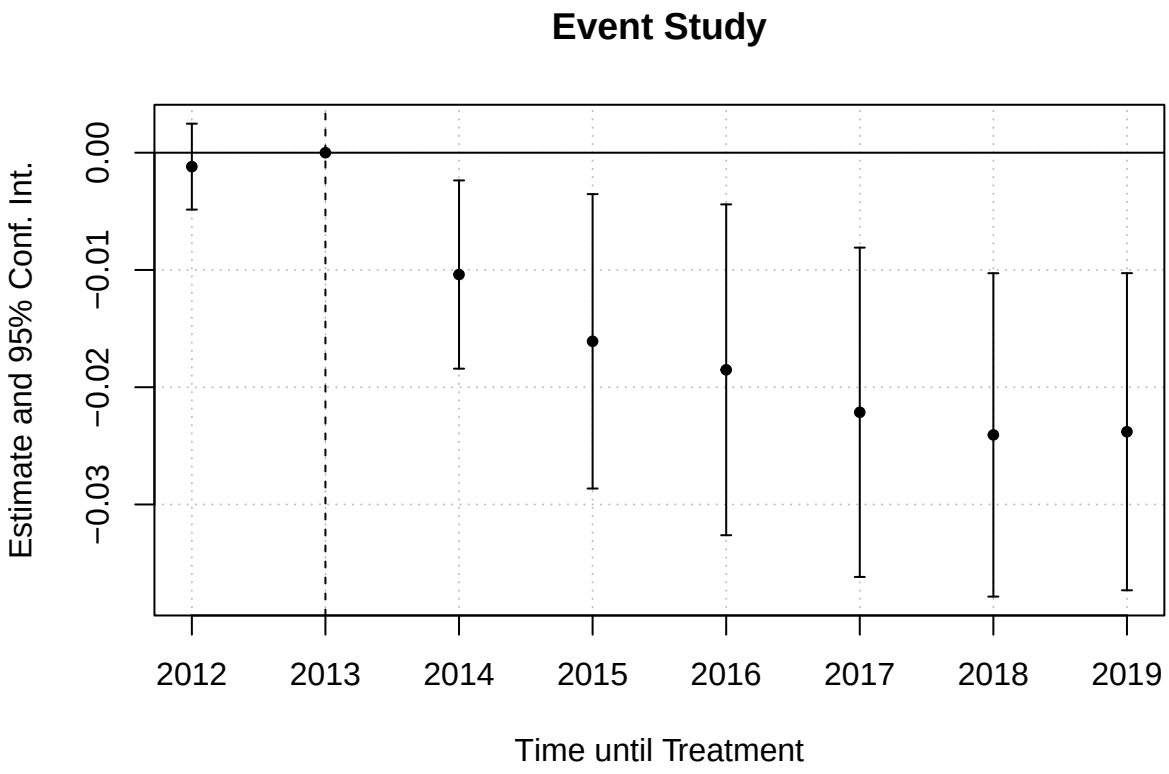
Question 3

	(1)
treat	−0.023
	(0.005)
Num.Obs.	400
R2	0.950
R2 Adj.	0.942
R2 Within	0.155
R2 Within Adj.	0.153
AIC	−2253.6
BIC	−2022.1
RMSE	0.01
Std.Errors	by: State
FE: State	X
FE: year	X

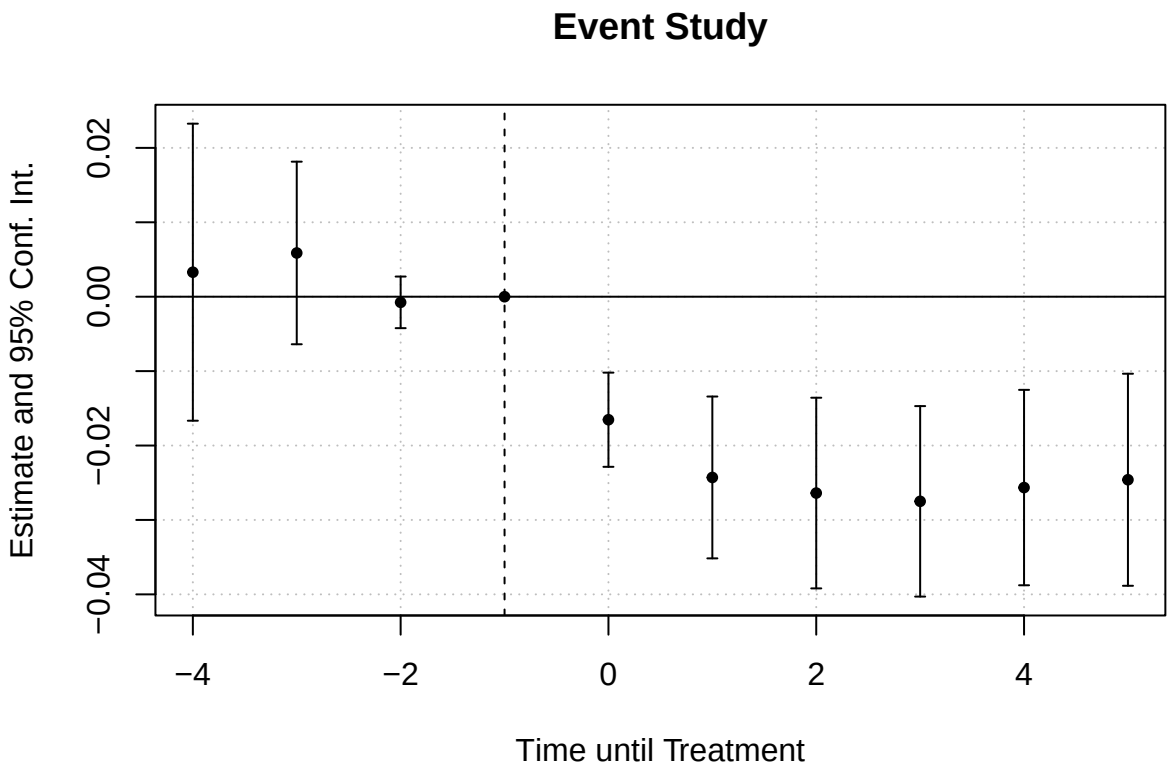
Question 4

The results did not vary widely between questions. When including the states that expanded after 2014, the analysis now includes some states may have expanded Medicaid in response to the ACA, and states that may have implemented the expansion more slowly than others.

Question 5


Event Study
Estimate and 95% Conf. Int.
0.00
−0.01
−0.02
−0.03
2012
2013
2014
2015
2016
2017
2018
2019
Time until Treatment

Question 6


Event Study
Estimate and 95% Conf. Int.
0.02
0.00
−0.02
−0.04
−4
−2
0
2
4
Time until Treatment