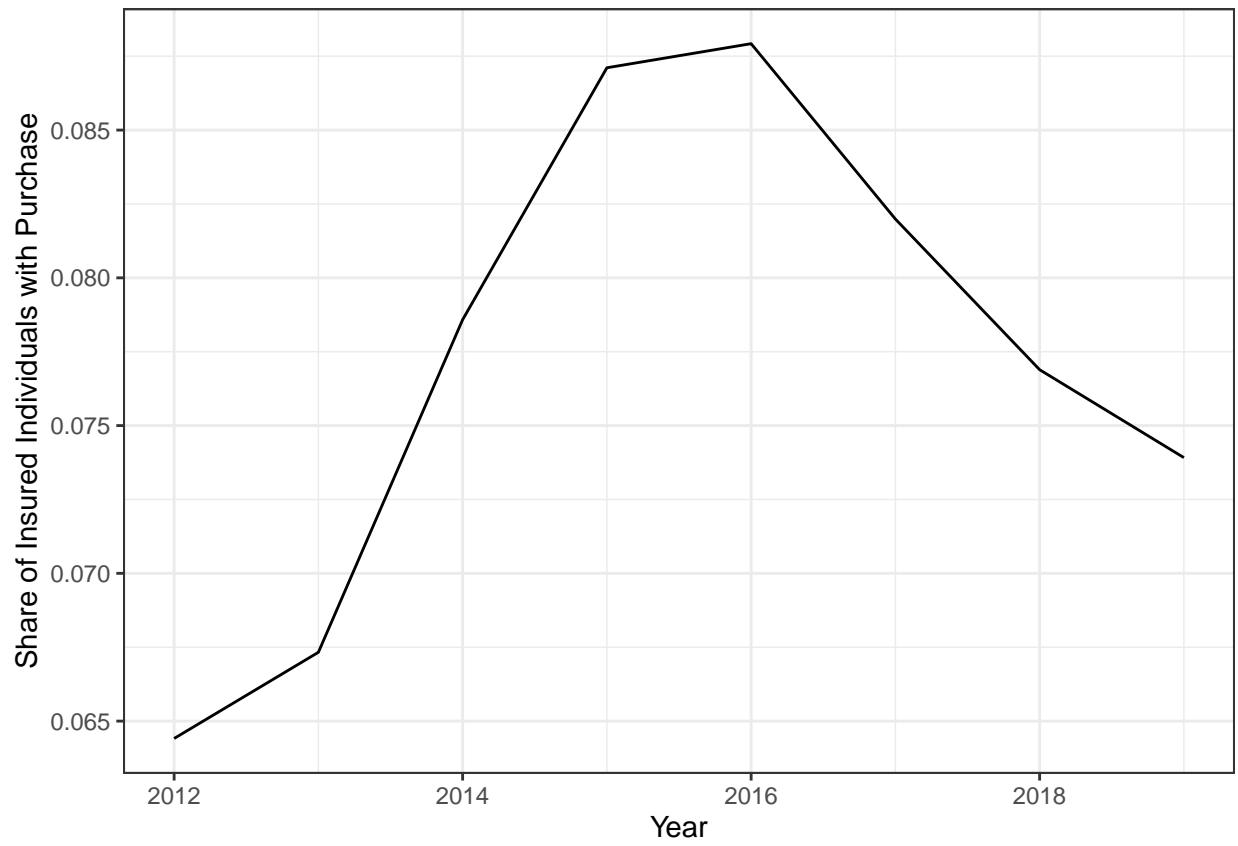# Homework 5

Virginia Sanson

16 April 2023
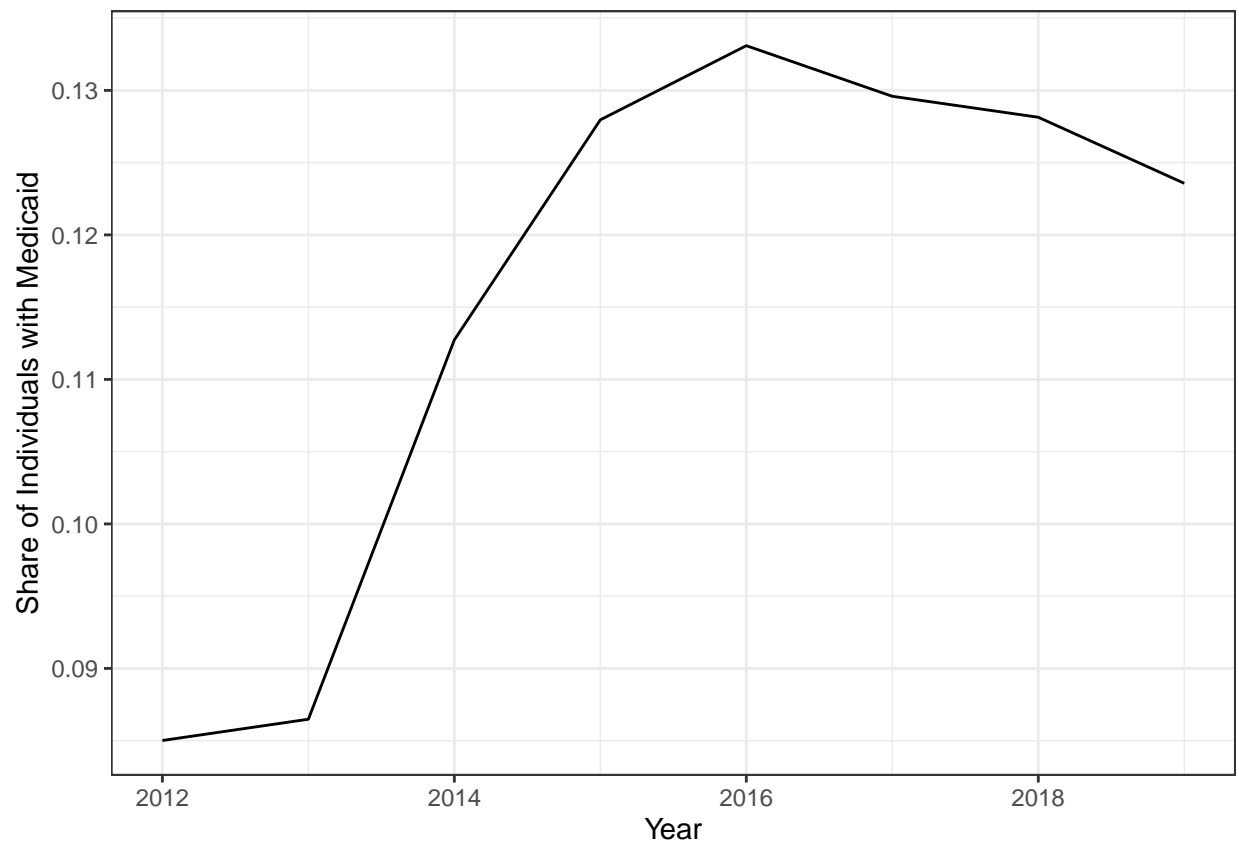
Question 1
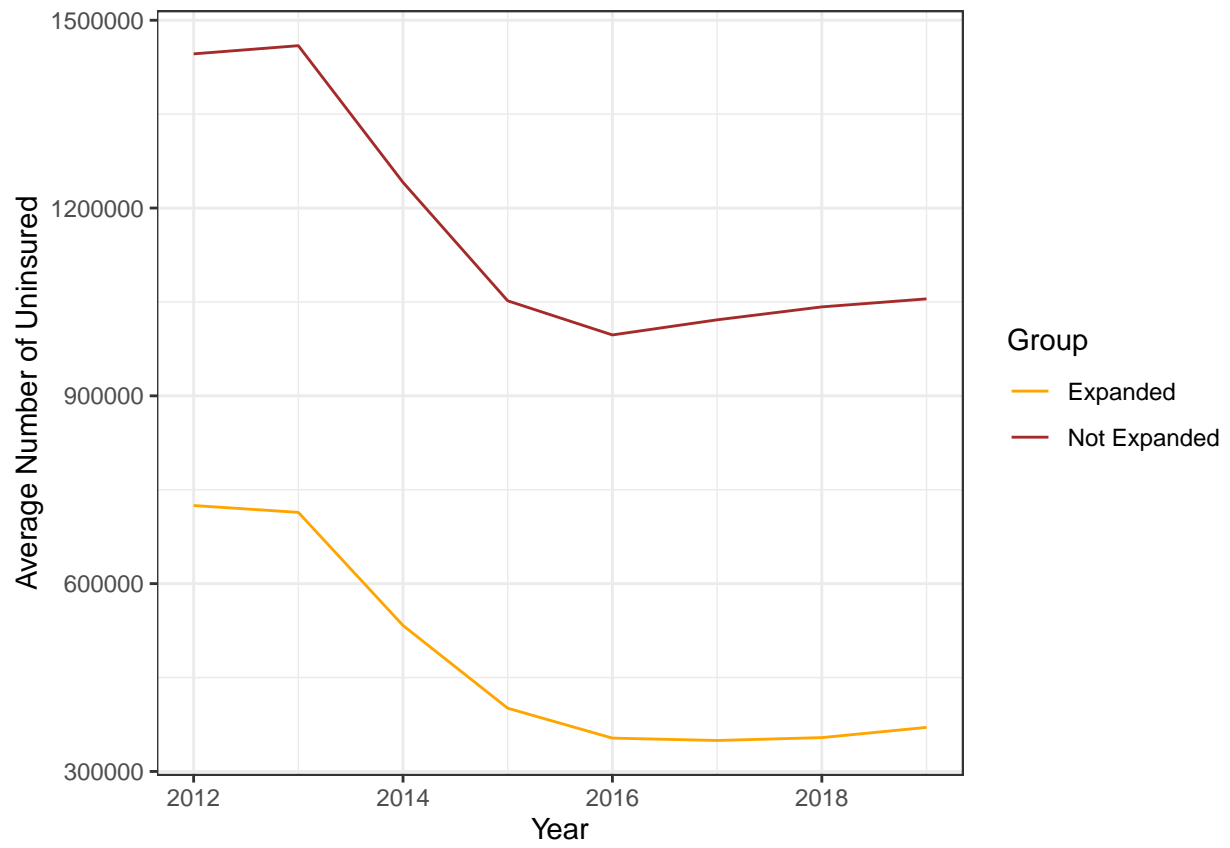
Question 2

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

Question 4

Estimate ATEs Question 1

expand_ever	2012	2015
Not Expanded	6.771735	10.146206
Expanded	6.415987	8.435992

	(1)
(Intercept)	6.938
	(0.280)
treatment	−0.404
	(0.353)
time	2.423
	(0.323)
treatment × time	−1.085
	(0.408)
Num.Obs.	344
R2	0.280
R2 Adj.	0.274
AIC	1298.8
BIC	1318.0
Log.Lik.	−644.414
F	44.171
RMSE	1.58

Question 2

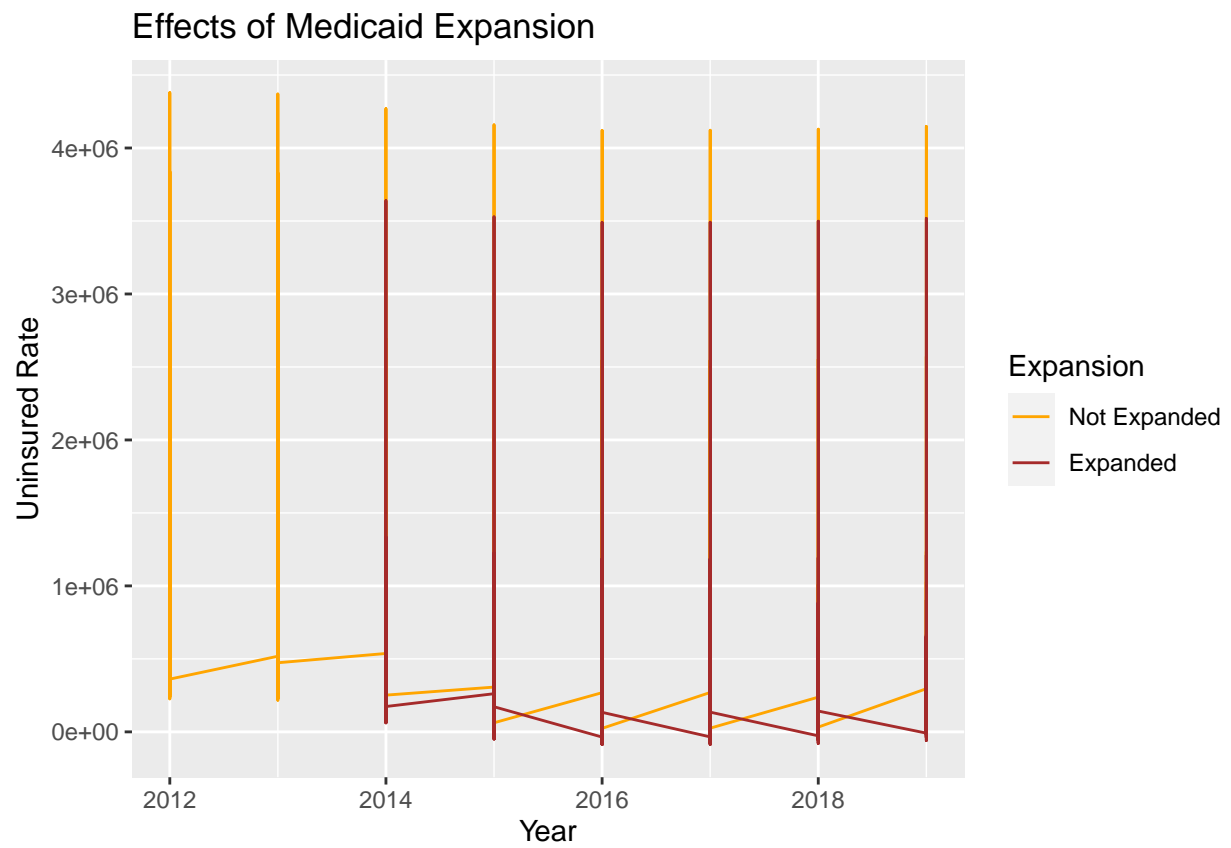|	(1)
year = 2012 × expand_ever	0.096
	(0.146)
year = 2014 × expand_ever	−0.737
	(0.182)
year = 2015 × expand_ever	−1.258
	(0.304)
year = 2016 × expand_ever	−1.306
	(0.299)
year = 2017 × expand_ever	−0.952
	(0.337)
year = 2018 × expand_ever	−0.928
	(0.387)
year = 2019 × expand_ever	−1.043
	(0.406)
Num.Obs.	344
R2	0.921
R2 Adj.	0.905
R2 Within	0.176
R2 Within Adj.	0.156
AIC	643.9
BIC	862.8
RMSE	0.52
Std.Errors	by: State
FE: State	X
FE: year	X

Question 3

	(1)
time_to_treat = -3 × expand_ever	−0.398
	(0.356)
time_to_treat = -2 × expand_ever	0.017
	(0.099)
time_to_treat = 0 × expand_ever	−0.680
	(0.135)
time_to_treat = 1 × expand_ever	−1.209
	(0.218)
time_to_treat = 2 × expand_ever	−1.333
	(0.238)
time_to_treat = 3 × expand_ever	−1.071
	(0.275)
time_to_treat = 4 × expand_ever	−0.988
	(0.328)
time_to_treat = 5 × expand_ever	−1.051
	(0.382)
Num.Obs.	400
R2	0.930
R2 Adj.	0.917
R2 Within	0.214
R2 Within Adj.	0.195
AIC	724.2
BIC	983.7
RMSE	0.51
Std.Errors	by: State
FE: State	X
FE: year	X

Question 4

The results varied 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.

Effects of Medicaid Expansion

Effects of Medicaid Expansion