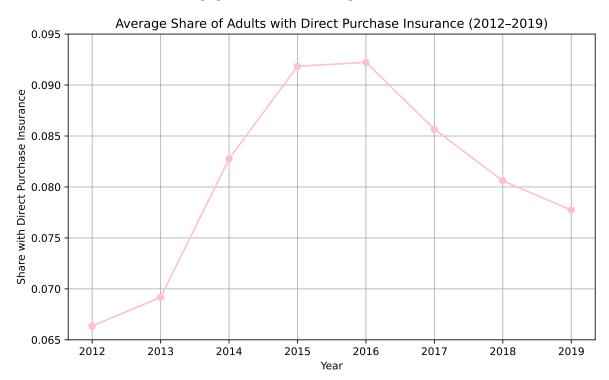
ECON 470 Homework 5-2

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The link to my repository: https://github.com/ellenwu-git/homework5

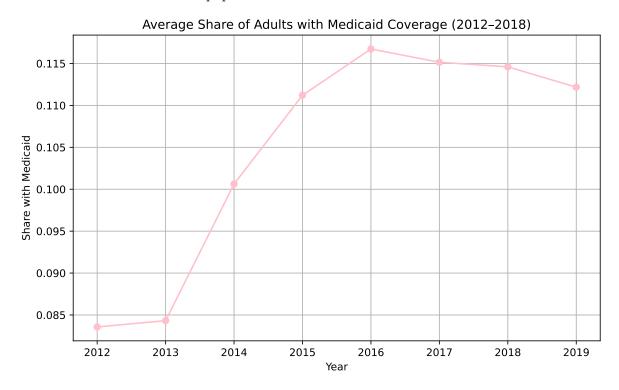
1. Plot the share of the adult population with direct purchase health insurance over time.



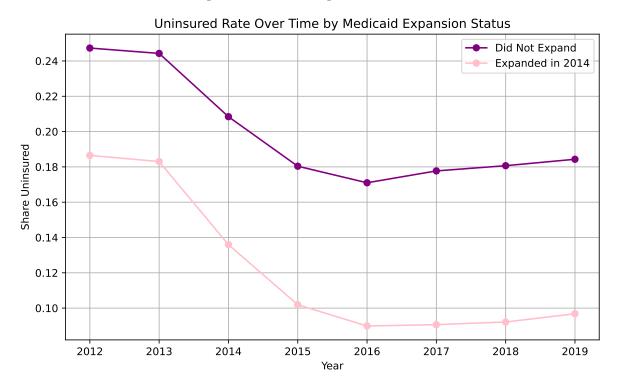
2. Discuss the reduction in direct purchase health insurance in later years. Can you list a couple of policies that might have affected the success of the direct purchase insurance market?

In later years, the share of adults with direct-purchase health insurance declined after peaking during the initial rollout of the ACA exchanges. Two major policy changes likely contributed to this drop. First, the repeal of the individual mandate penalty in 2019 reduced the incentive for healthy individuals to purchase insurance, weakening risk pools. Second, the termination of cost-sharing reduction payments in 2017 led insurers to raise premiums, making plans less affordable for many. These shifts undermined the stability of the individual market and reduced participation.

3. Plot the share of the adult population with Medicaid over time.



4. Plot the share of uninsured over time, separately by states that expanded Medicaid in 2014 versus those that did not. Drop all states that expanded after 2014.



5. Calculate the average percent of uninsured individuals in 2012 and 2015, separately for expansion and non-expansion states. Present your results in a basic 2x2 DD table.

Group	Pre	Post
Non-expansion Expansion	00	$0.158 \\ 0.094$

6. Estimate the effect of Medicaid expansion on the uninsurance rate using a standard DD regression estimator, again focusing only on states that expanded in 2014 versus those that never expanded.

	Standard DD
Post 2014	-0.054*** (0.008)
Expand	-0.046*** (0.009)
Post x Expand	-0.019* (0.010)
Num. Obs.	352
R2	0.506

7. Include state and year fixed effects in your estimates. Try using the lfe or fixest package to estimate this instead of directly including the fixed effects.

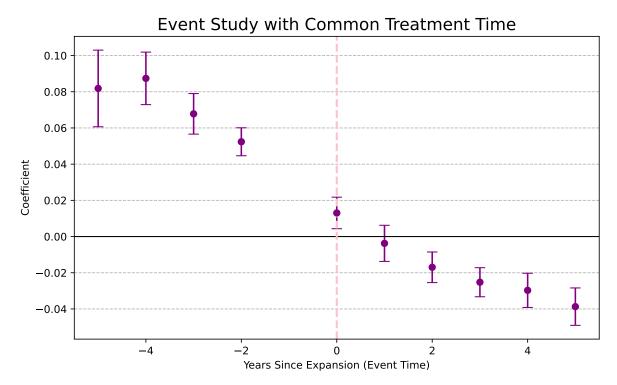
	TWFE
Post 2014	-0.045*** (0.003)
Expand	-0.035*** (0.006)
Post x Expand	-0.022*** (0.004)
Num. Obs.	360
R2	0.947

8. Repeat the analysis in question 7 but include all states (even those that expanded after 2014). Are your results different? If so, why?

		Time-varying Treatment
Time-varying Treat -0.024*** (0.003) Num. Obs. 416 R2 0.946	Num. Obs.	416

Yes, the results changed slightly in Question 8 due to the inclusion of all states, including those that expanded Medicaid after 2014. While the ATE in Question 7 was -0.0188, it increased in magnitude to -0.0204 in Question 8. This shift reflects the added post-treatment variation from late-expanding states like Virginia and Louisiana, which were initially untreated but later contributed to the treated group. Including these states strengthened the estimated effect by capturing more within-state changes over time.

9. Provide an "event study" graph showing the effects of Medicaid expansion in each year. Use the specification that includes state and year fixed effects, limited to states that expanded in 2014 or never expanded.



10. Repeat part 9 but again include states that expanded after 2014. Note: this is tricky...you need to put all states onto "event time" to create this graph.

