Homework 4

Research Methods, Spring 2025

Ryan Scholte

You can access the Repository

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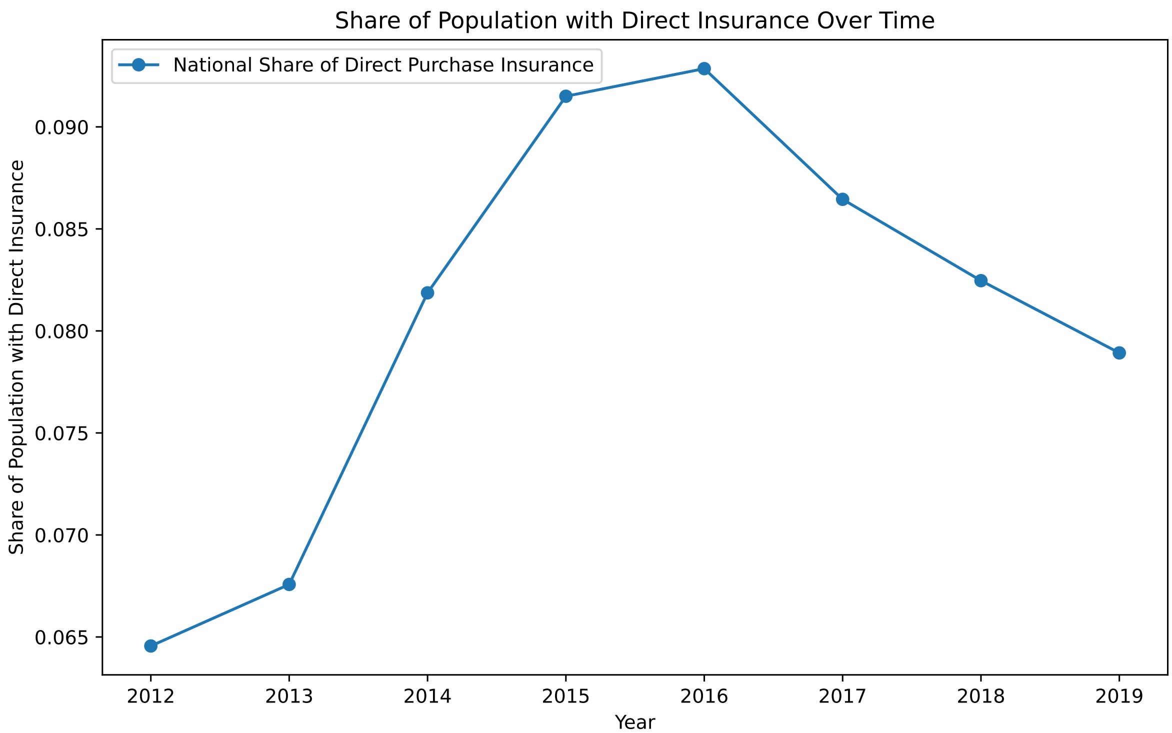
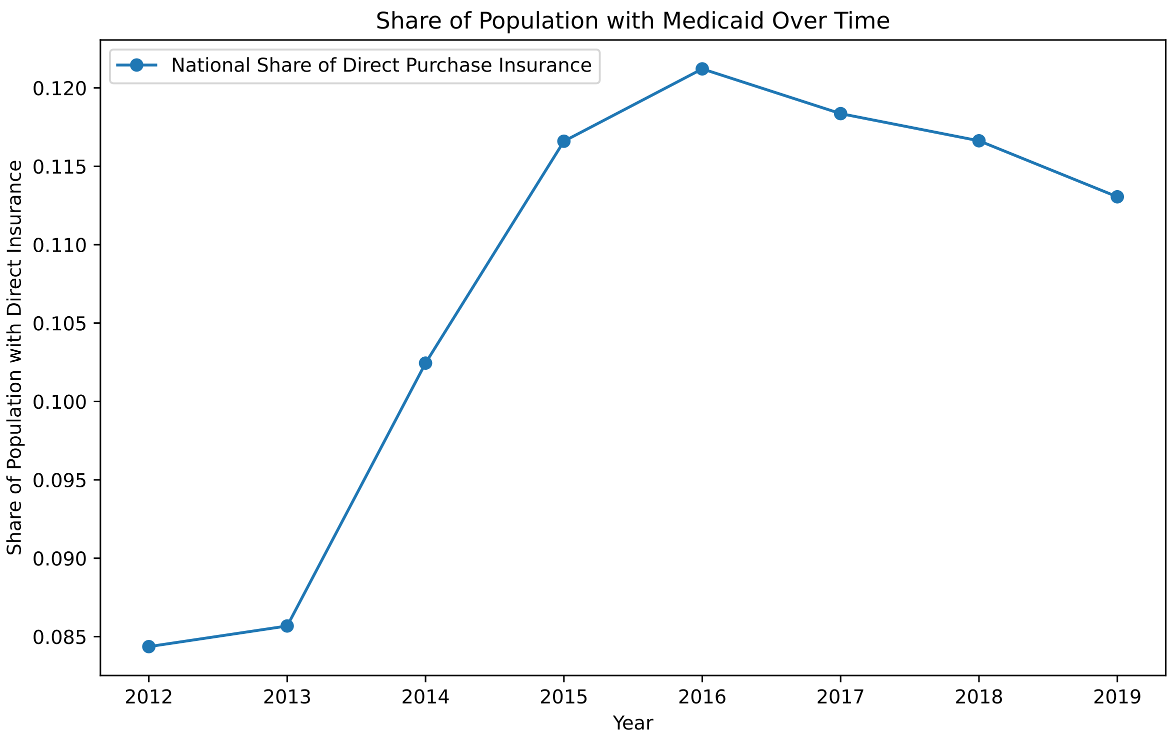
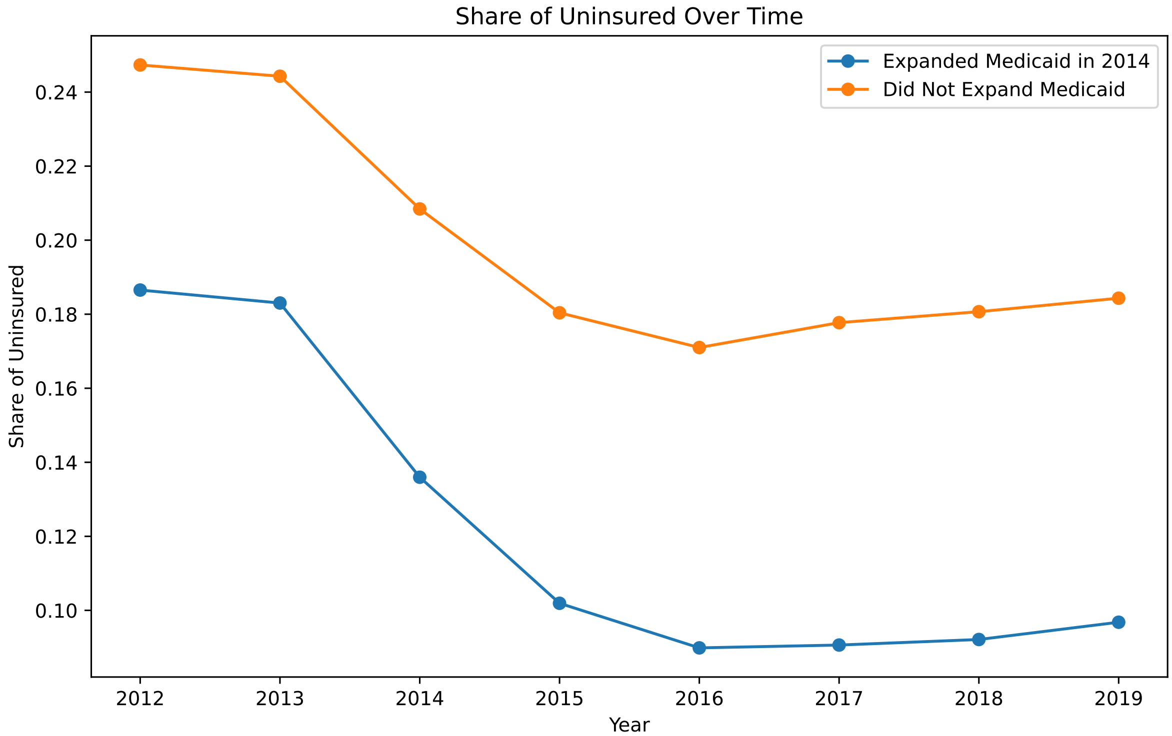


2

3


Share of Population with Medicaid Over Time
National Share of Direct Purchase Insurance
Share of Population with Direct Insurance
0.120
0.115
0.110
0.105
0.100
0.095
0.090
0.085
2012
2013
2014
2015
2016
2017
2018
2019
Year

4



5

```
      Expansion States  Non-Expansion States
Year
2012          0.186524              0.247324
2015          0.101914              0.180381
```

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```
                            OLS Regression Results
==============================================================================
Dep. Variable:         uninsured_share   R-squared:                       0.944
Model:                             OLS   Adj. R-squared:                  0.930
Method:                  Least Squares   F-statistic:                     67.02
Date:                 Wed, 23 Apr 2025   Prob (F-statistic):           9.13e-08
Time:                         09:19:30   Log-Likelihood:                 47.766
```

```
No. Observations:                  16   AIC:                            -87.53
Df Residuals:                      12   BIC:                            -84.44
Df Model:                           3
Covariance Type:            nonrobust
================================================================================
                  coef    std err          t      P>|t|      [0.025      0.975]
--------------------------------------------------------------------------------
Intercept       0.2458      0.010     24.626      0.000       0.224       0.268
group          -0.0610      0.014     -4.324      0.001      -0.092      -0.030
post           -0.0620      0.012     -5.384      0.000      -0.087      -0.037
interaction    -0.0215      0.016     -1.320      0.212      -0.057       0.014
==============================================================================
Omnibus:                       14.816   Durbin-Watson:                   1.818
Prob(Omnibus):                  0.001   Jarque-Bera (JB):               11.683
Skew:                           1.749   Prob(JB):                      0.00290
Kurtosis:                       5.298   Cond. No.                         9.89
==============================================================================

Notes:
[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.
```

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```
OMP: Info #276: omp_set_nested routine deprecated, please use omp_set_max_active_levels inste

###

Estimation:  OLS
Dep. var.: perc_unins, Fixed effects: State+year
Inference:  CRV1
Observations:  360

| Coefficient   |   Estimate |   Std. Error |   t value |   Pr(>|t|) |   2.5% |   97.5% |
|:--------------|-----------:|-------------:|----------:|-----------:|-------:|--------:|
| interaction   |     -0.022 |        0.008 |    -2.909 |      0.006 | -0.037 |  -0.007 |
---
RMSE: 0.013 R2: 0.947 R2 Within: 0.109
None
```

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```
###

Estimation:  OLS
Dep. var.: perc_unins, Fixed effects: State+year
Inference:  CRV1
Observations:  416

| Coefficient   |   Estimate |   Std. Error |   t value |   Pr(>|t|) |   2.5% |   97.5% |
|:--------------|-----------:|-------------:|----------:|-----------:|-------:|--------:|
| interaction   |     -0.018 |        0.007 |    -2.398 |      0.020 | -0.032 |  -0.003 |
---
RMSE: 0.014 R2: 0.941 R2 Within: 0.072
None
```

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