

# Homework 2 - Submission 3

ECON 470

Baran Pasa

## Homework 2 Analysis

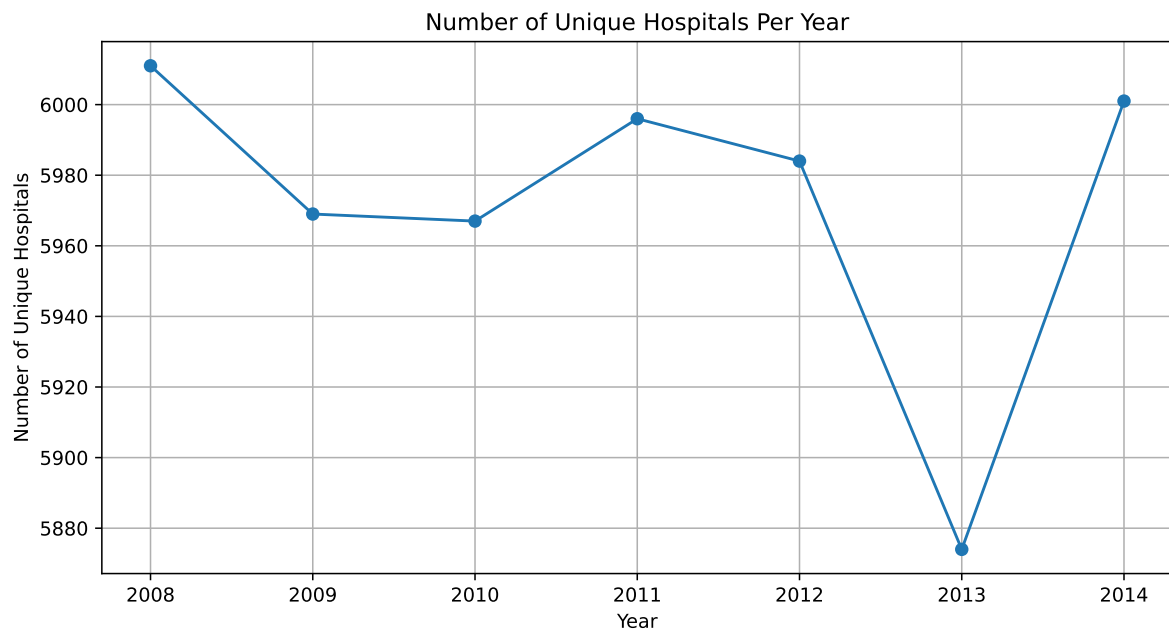
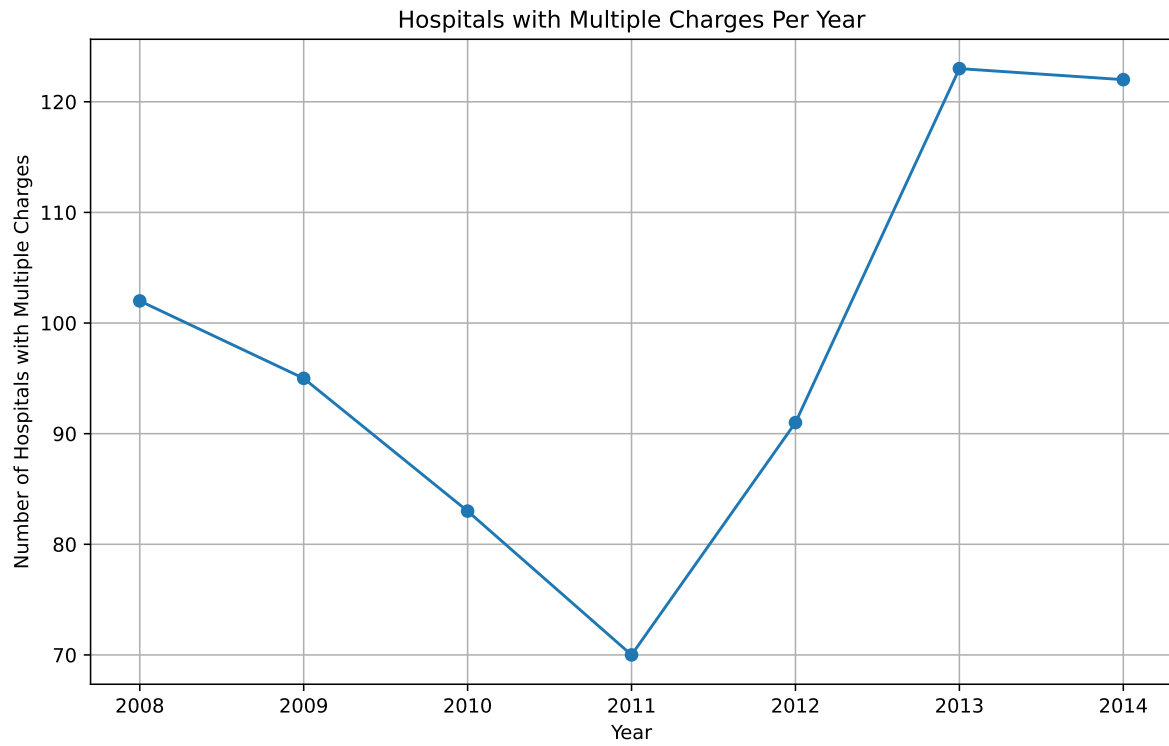
[Link to Github](#)

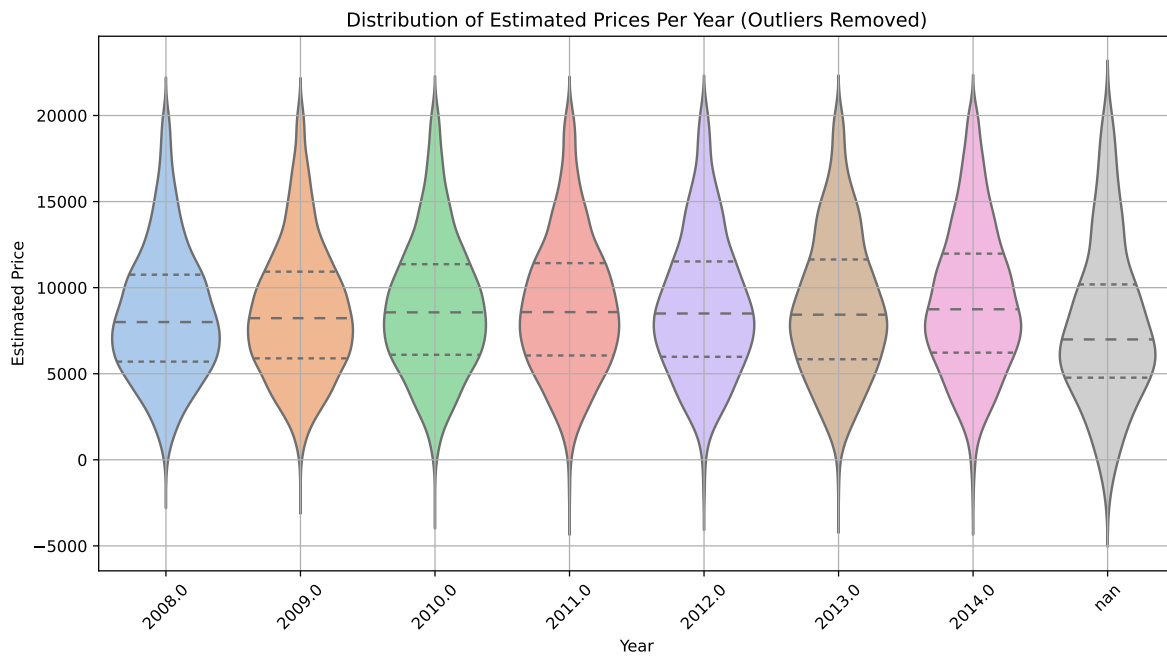
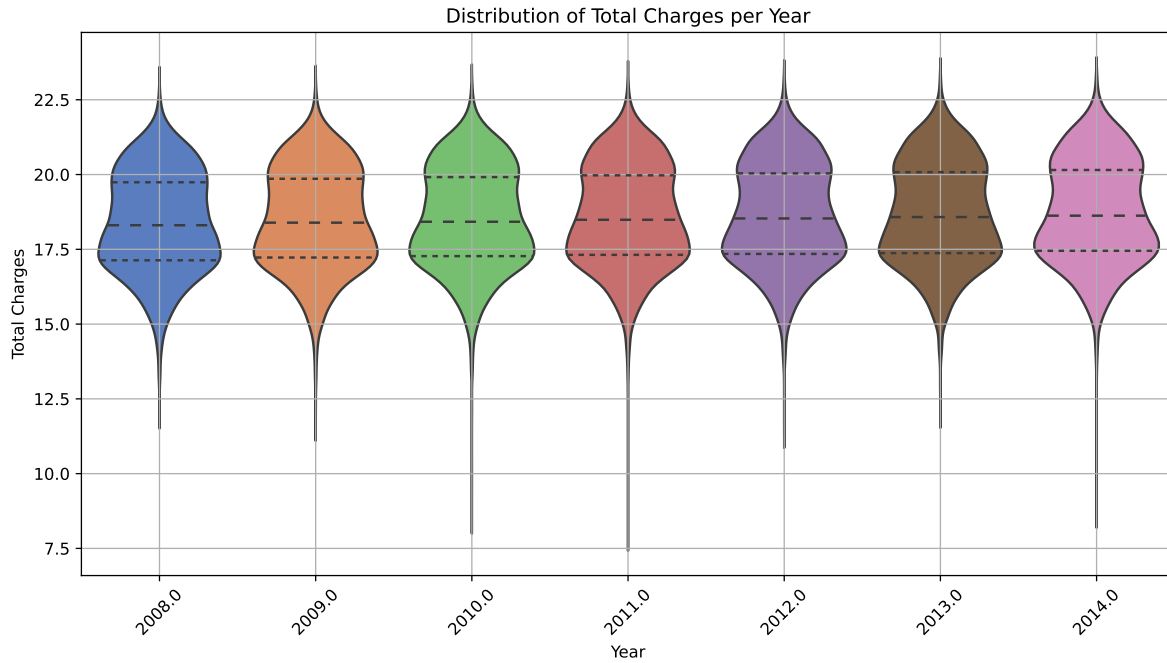
### Part 0: Importing and cleaning the data

The data was cleaned in order to make summarizing and analysis easier. My cleaning process relied heavily on the code kindly provided to us by our TA Pablo. Additionally, data was only used from 2008 to 2015 due to my computer's lack of power.

### Part 1 Summarizing the Data

The graphs below provide a small summary of the data.





As you can see, only the years 2008 through 2014 are visible. You can also see that there is distribution of NaN on the final graph. This is an issue that needs to be further addressed, and is most likely occurring due to faulty code.

## Part 2: Estimating ATE

/Users/baranpasa/Library/Mobile Documents/com~apple~CloudDocs/Desktop/Emory/Junior Year/Juni

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: [https://pandas.pydata.org/pandas-docs/stable/user\\_guid](https://pandas.pydata.org/pandas-docs/stable/user_guid)

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Average price for penalized hospitals in 2012: 10721.38

Average price for non-penalized hospitals in 2012: 9423.59

Quartile	Penalized_Mean_Price	Non_penalized_Mean_Price
1	8008.29	7456.69
2	10186.61	8522.48
3	11260.07	9470.05
4	13518.17	12254.50

/opt/anaconda3/lib/python3.11/site-packages/causalinferenc/estimators/matching.py:100: Futur

`rcond` parameter will change to the default of machine precision times ``max(M, N)`` where M is the number of rows and N is the number of columns of the matrix.  
 To use the future default and silence this warning we advise to pass `rcond=None`, to keep us

	INV	MAH	IPW	OLS
ATE	1313.77	1313.77	1313.77	1313.77
SE	280.21	280.21	280.11	279.96

	INV	MAH	IPW	OLS
ATE	1313.77	1313.77	1313.77	1313.77
SE	280.21	280.21	280.11	279.96

/opt/anaconda3/lib/python3.11/site-packages/causal inference/estimators/weighting.py:23: FutureWarn

`rcond` parameter will change to the default of machine precision times ``max(M, N)`` where M is the number of rows and N is the number of columns of the matrix.  
 To use the future default and silence this warning we advise to pass `rcond=None`, to keep us

/opt/anaconda3/lib/python3.11/site-packages/causal inference/estimators/ols.py:21: FutureWarn

`rcond` parameter will change to the default of machine precision times ``max(M, N)`` where M is the number of rows and N is the number of columns of the matrix.  
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display(Markdown(results.to\_markdown()))