

HOW PROXIMITY TO A UNIVERSITY AFFECTS HOUSING AFFORDABILITY FOR STUDENTS IN NEW YORK

J O Y C E L I N



Introduction

Subject: the need for more affordable housing is a top priority among students, yet more and more students are finding it increasingly difficult to find housing for their studies.

Objective: assess the impact of the vicinity of a university in New York state on housing affordability

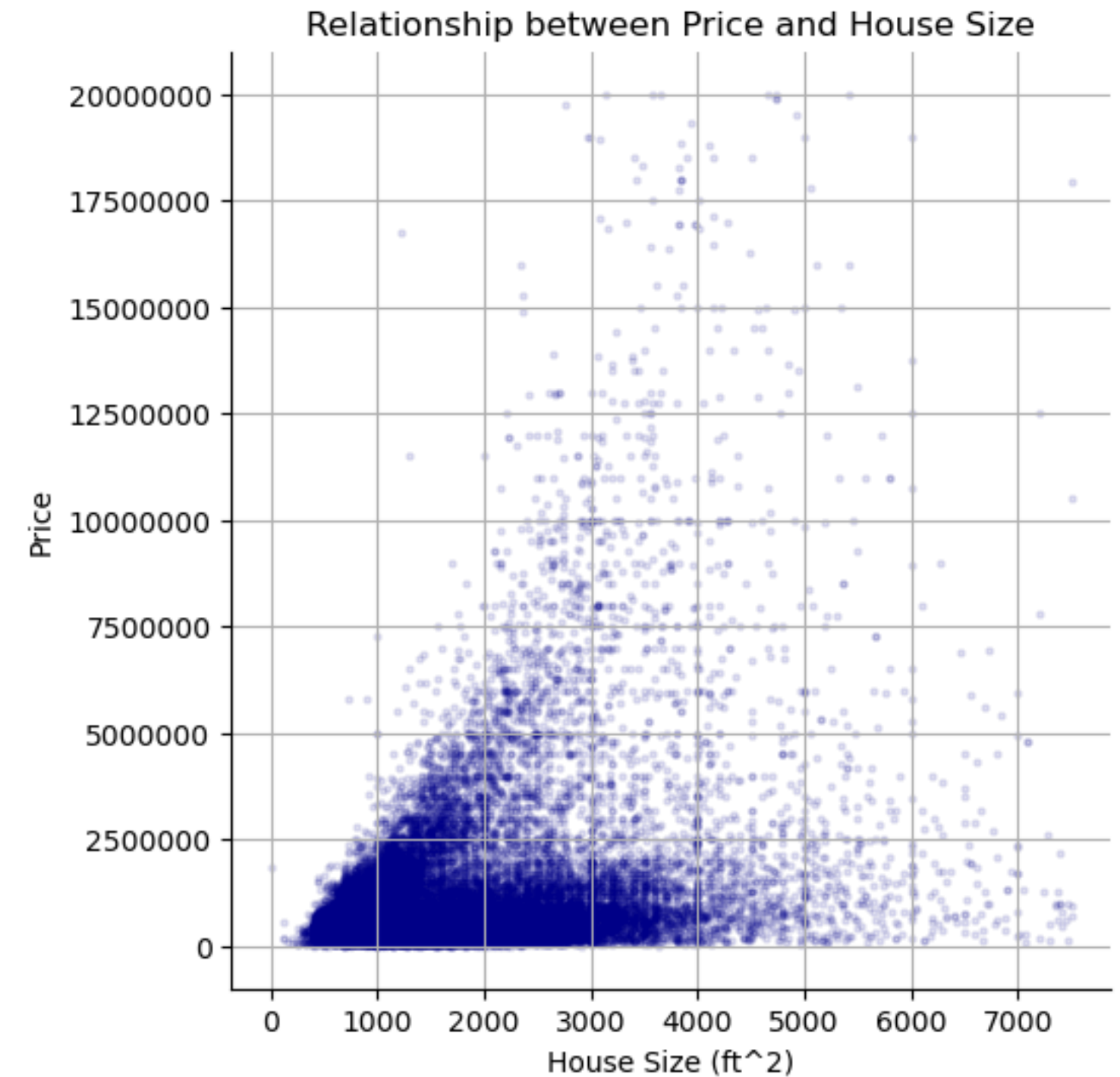
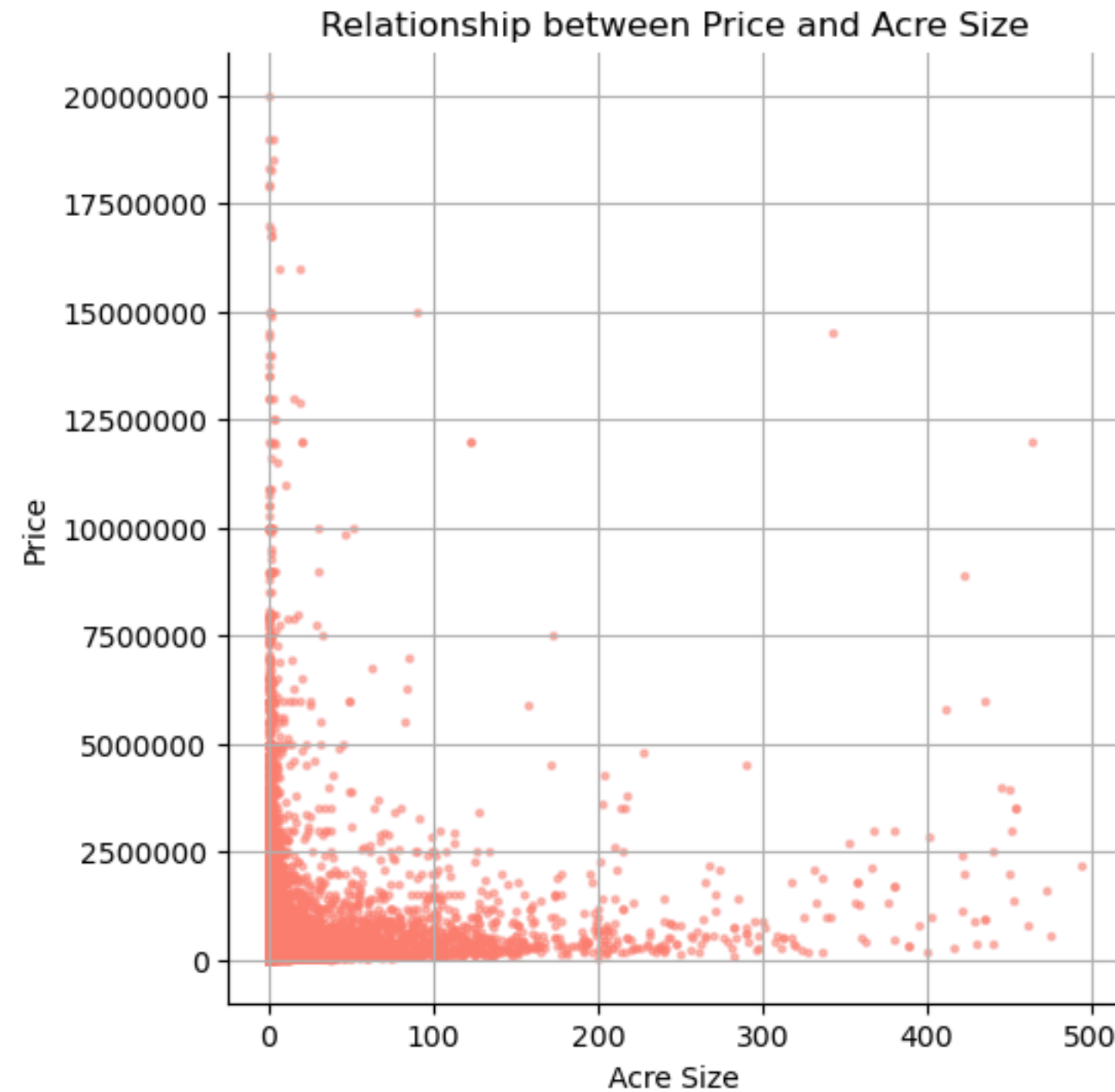
- **Why New York?** New York houses the largest city in the US and numerous prominent universities

Primary Dataset: 67,157 housing prices in USA collected from realtor.com

- **Variables:** housing prices (dependent variable); distance to nearest university (primary independent variable)

Summary Tables

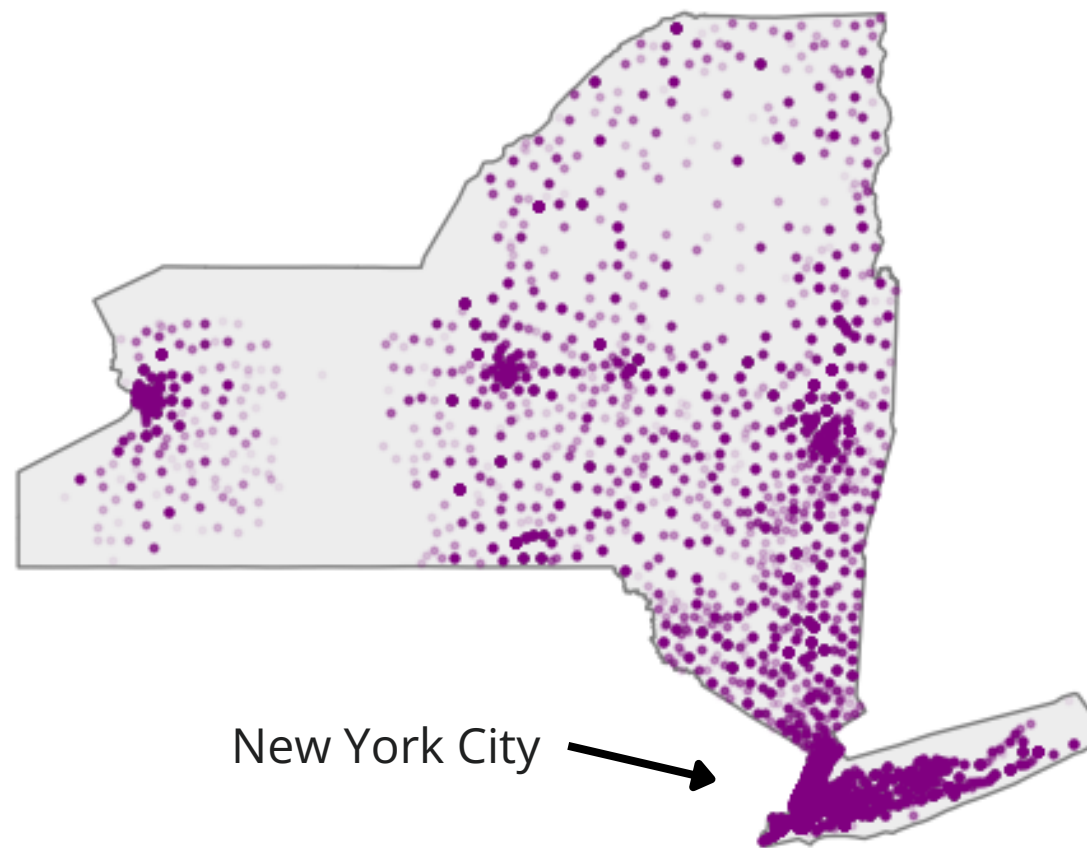
- A total of 60,847 houses are in New York state
- More variation in price with smaller acre size and larger house size
- Direct relationship with house eize; inverse relationship with acre size



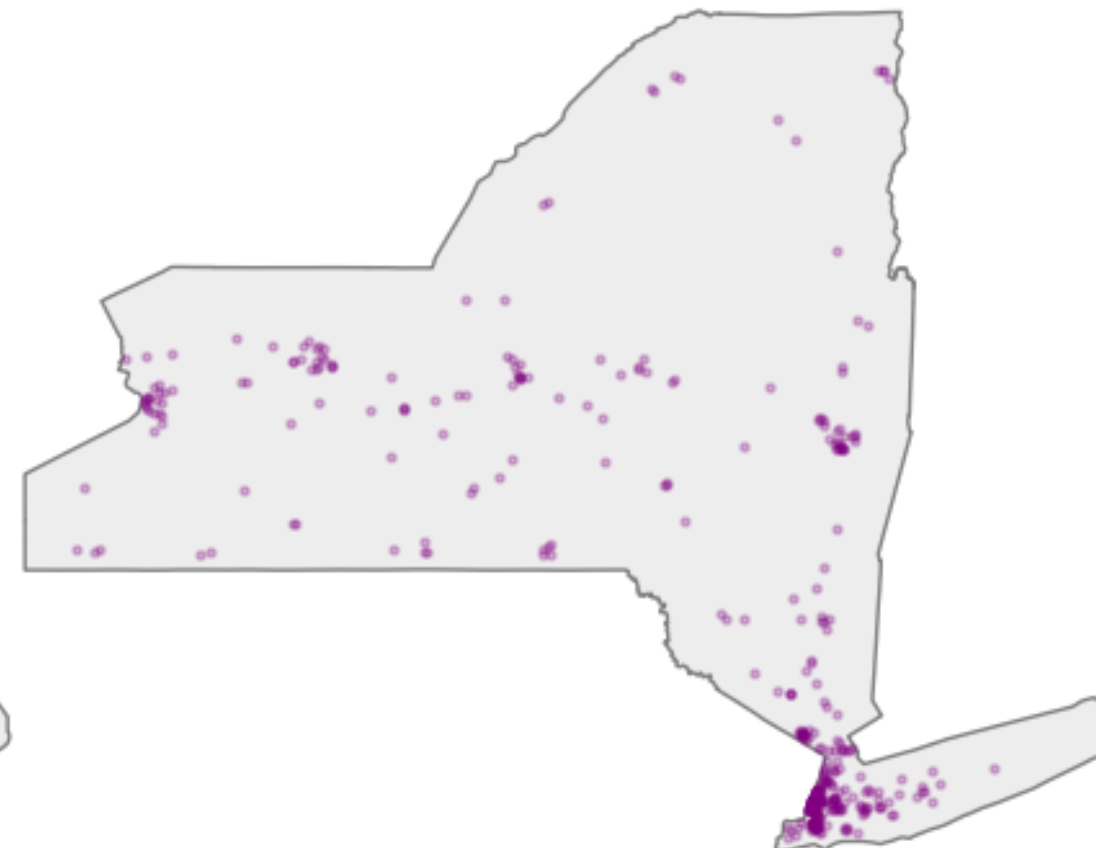
Summary Tables

- Housing location is plotted by zip codes; university location is obtained directly from the National Center for Educational Statistics
- New York City sees highest concentration of houses
- Smaller clusters across mid-New York

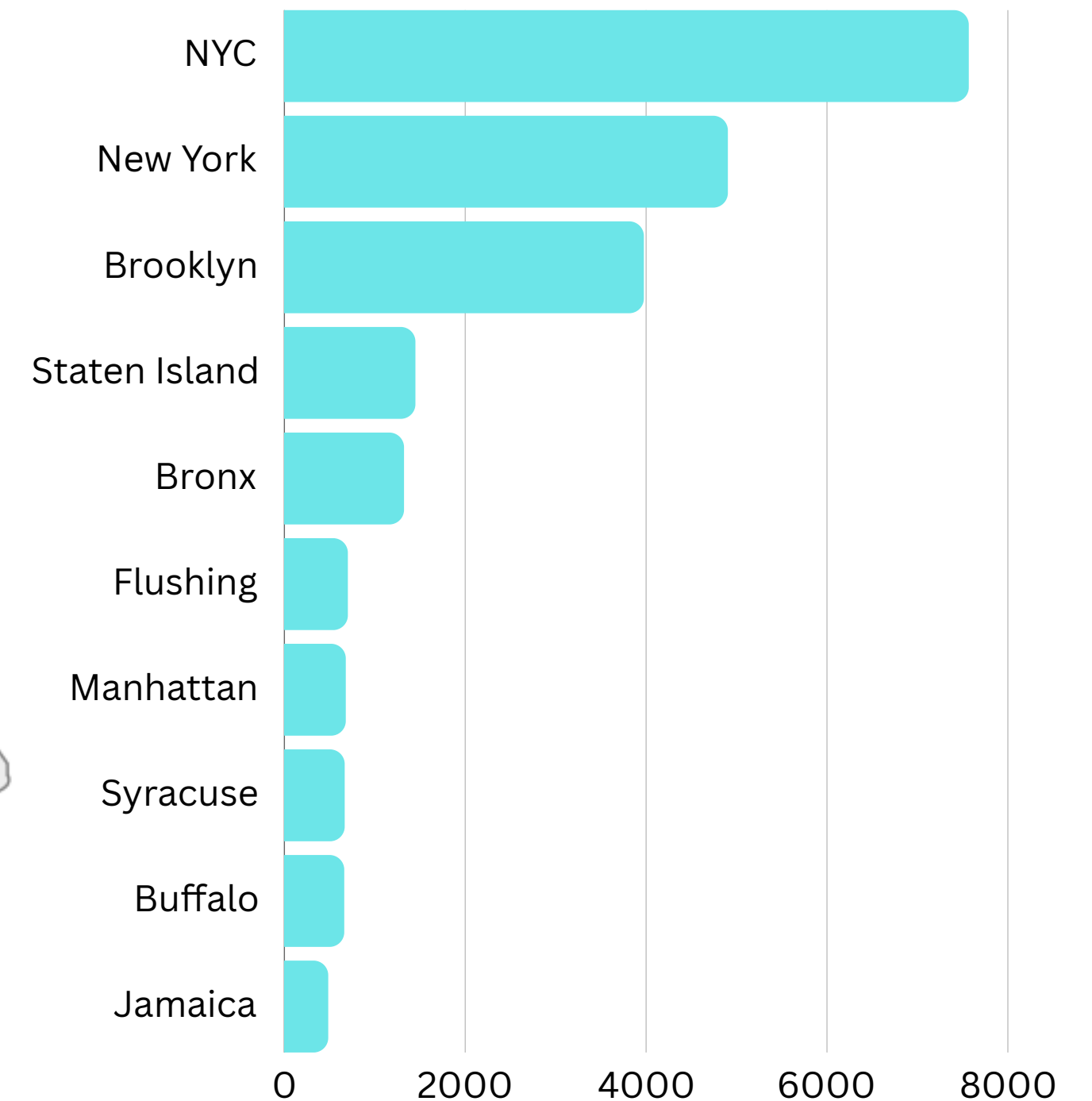
Housing Location Distribution in New York



Universities in New York

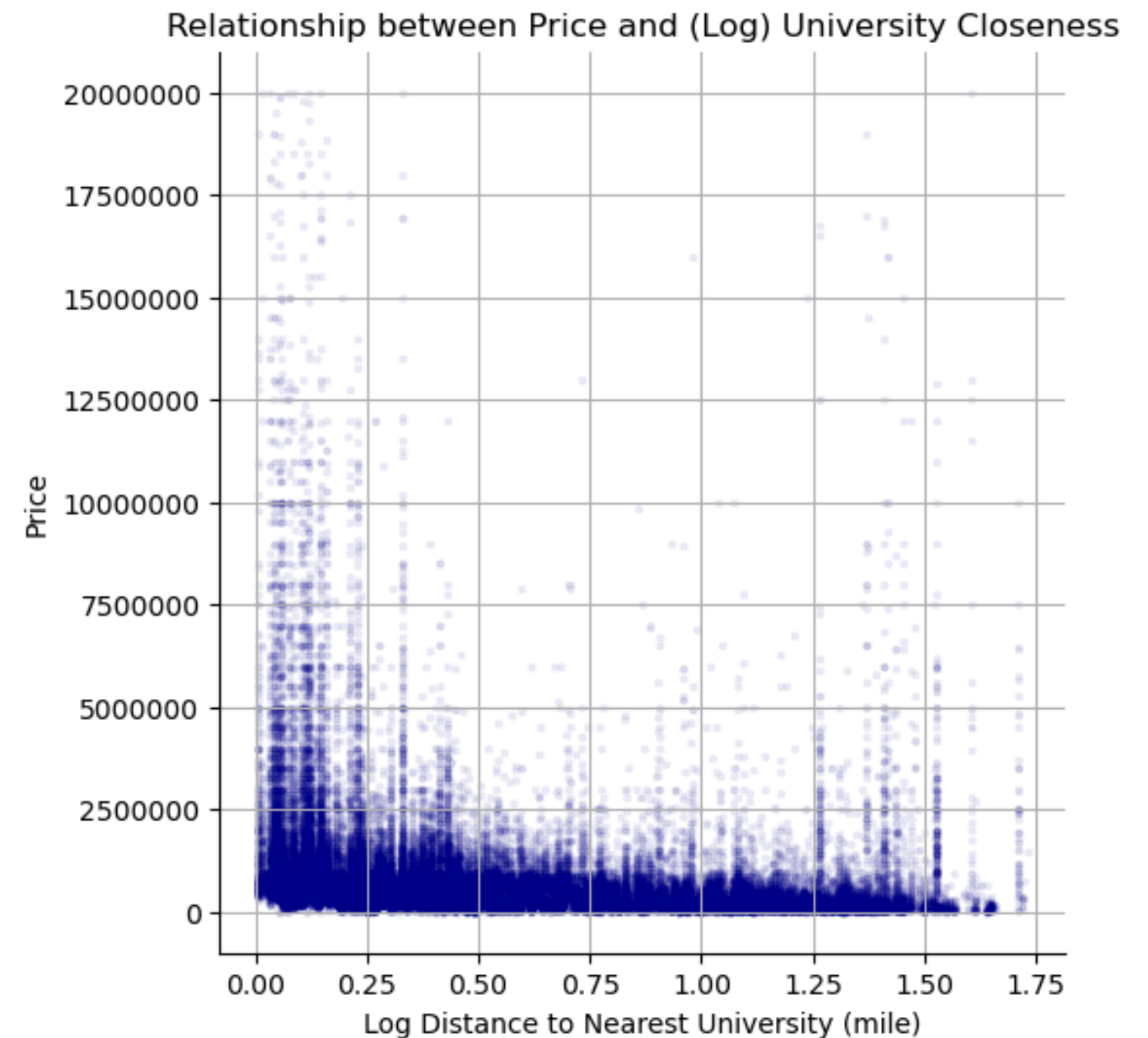
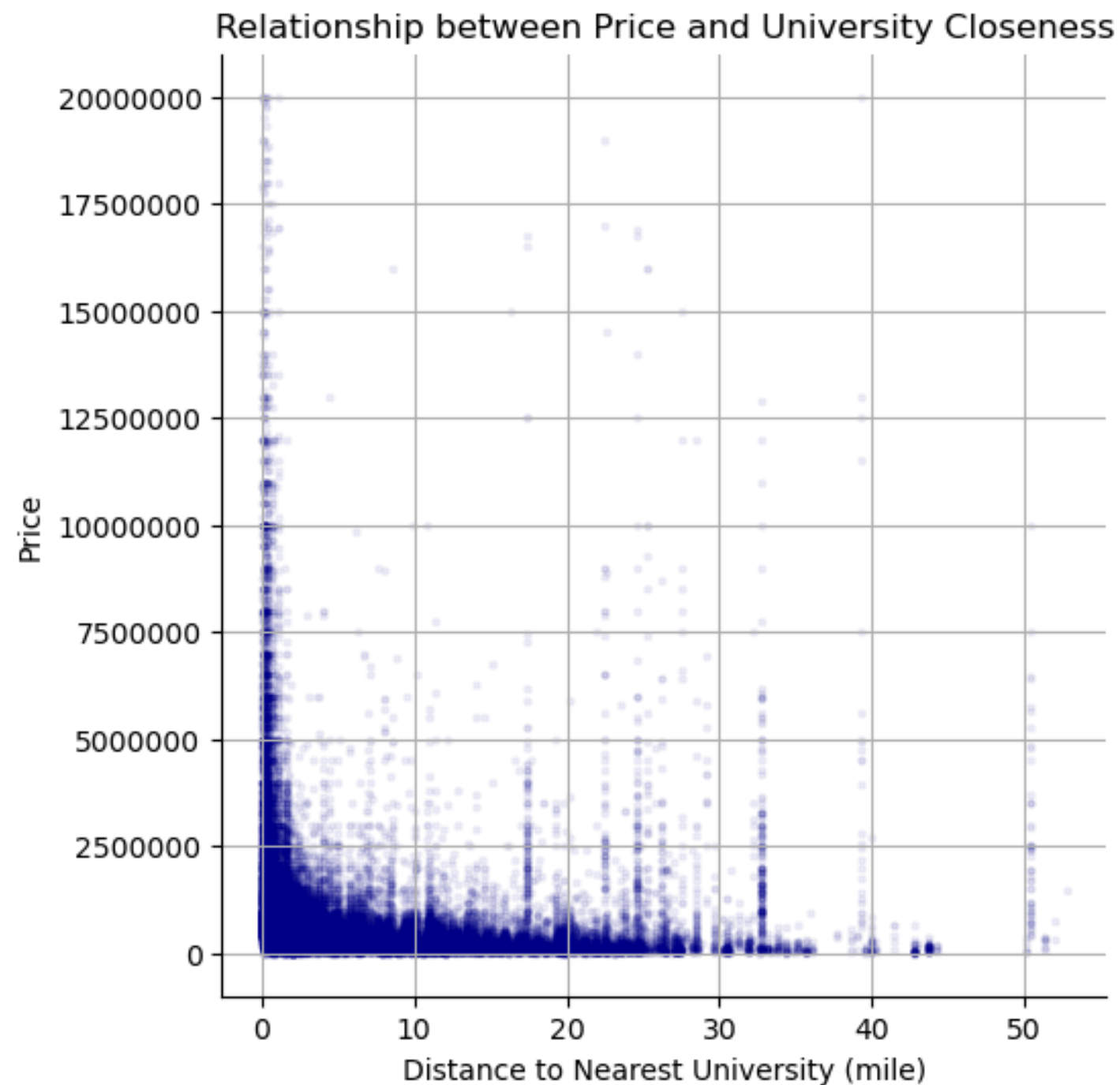


Top 10 Cities in New York by
Housing Count



Results

- Distance to nearest university is calculated with numpy
- Inversely logarithmic relationship between price and university distance
- Higher price variation when closer to university



Conclusion

Findings:

- Significant correlation between housing prices and university distance
- Skewed distribution in scatter plots as well as in geography
 - i.e. high concentration of observations in New York City

Significance:

- Cannot extrapolate definite causal effect; skewed distribution implies other factors influencing housing prices

Future Steps:

- Explore other factors, e.g. account for university rating & rankings, city demographics