#### Confirmed Covid19 Cases per Capita in the US (11/09/2020)

The New York Times

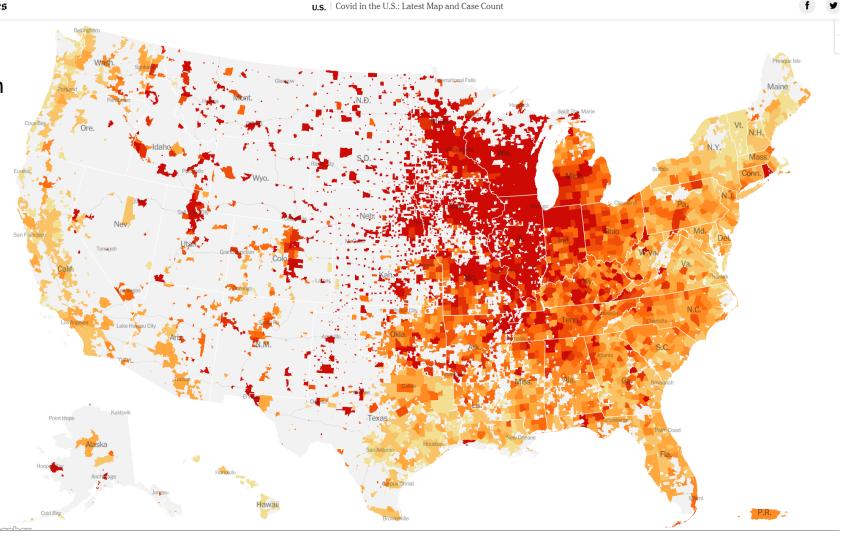
Today, 11/09/2020

The US overpassed 10 million Covid19 confirmed cases!!

3% of the total population

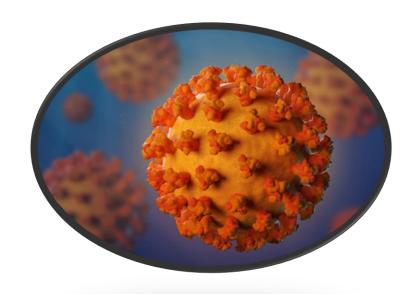
#### **Team Members:**

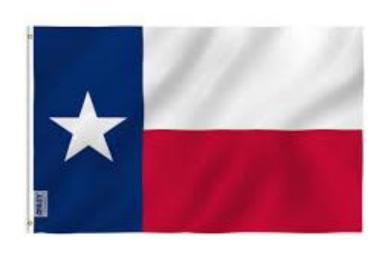
- Anna Rischitelli
- Priya Arunachalam
- Nataliia Sokolova
- Vincent Durcan
- Shadia Duery



# Do rates of Covid19 differ based on State policies implemented?

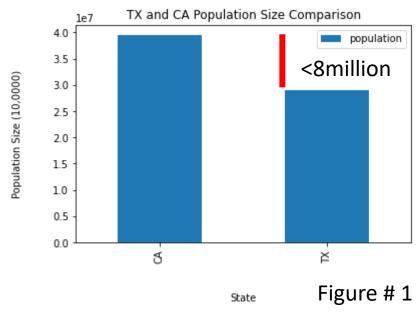


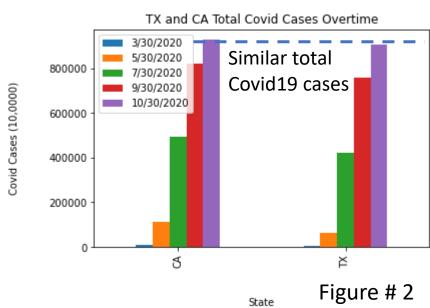


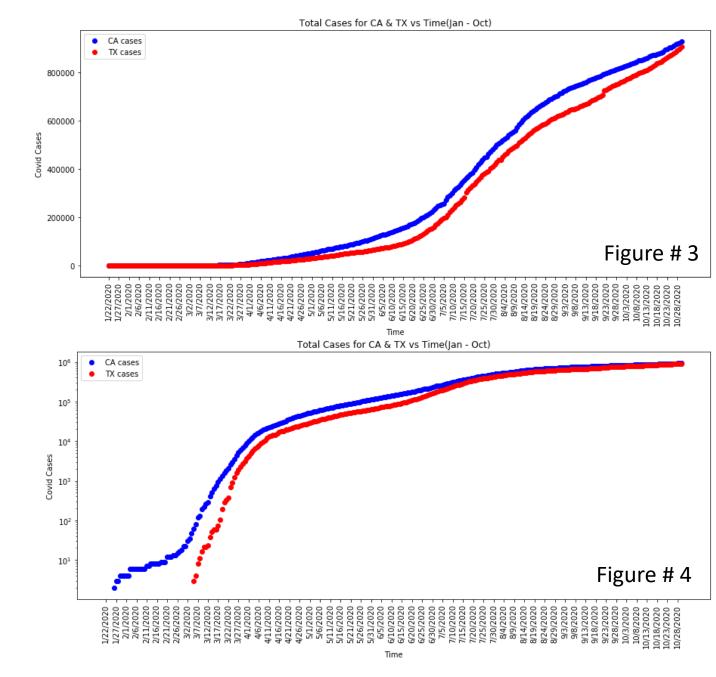


Comparison between California and Texas

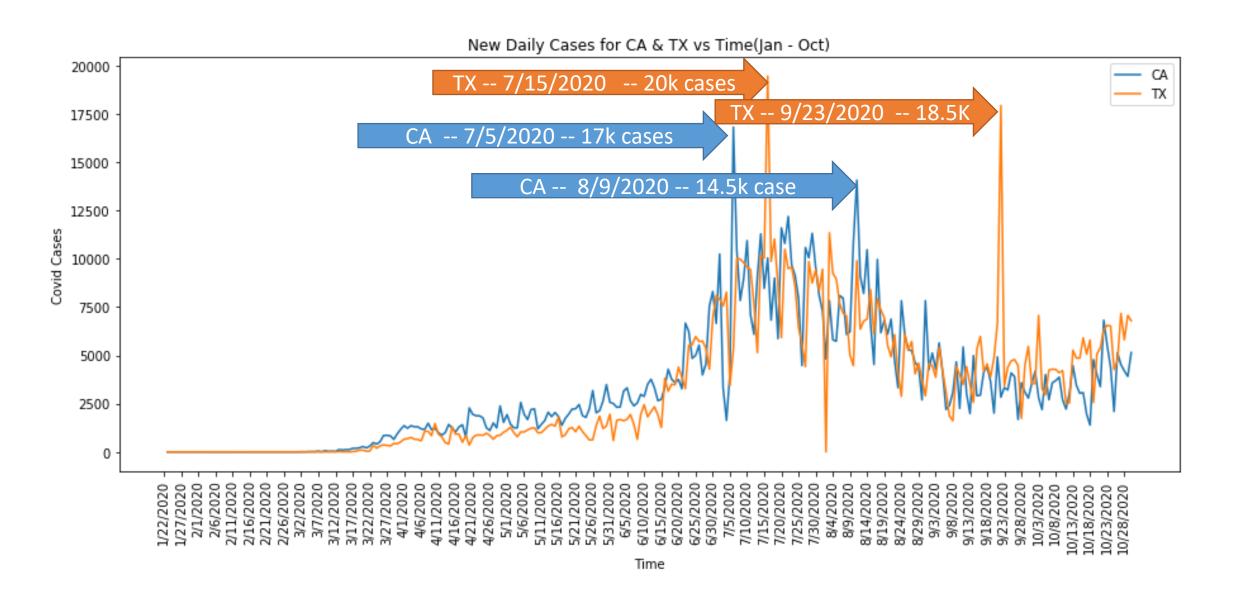
#### Number of total confirmed Covid19 cases in CA and TX from Jan-Oct 2020



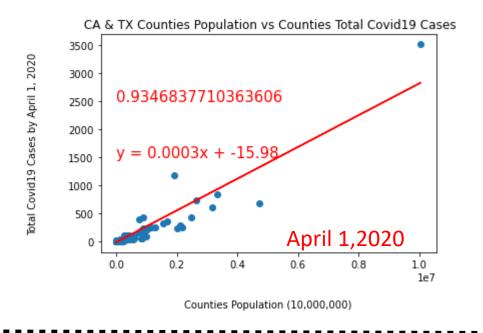


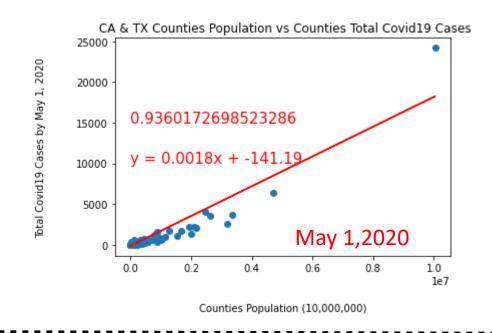


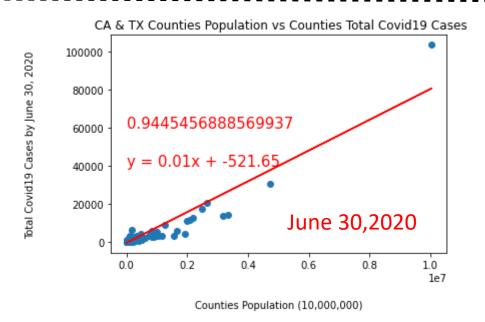
## Number of new daily confirmed Covid19 cases in CA and TX from Jan-Oct 2020

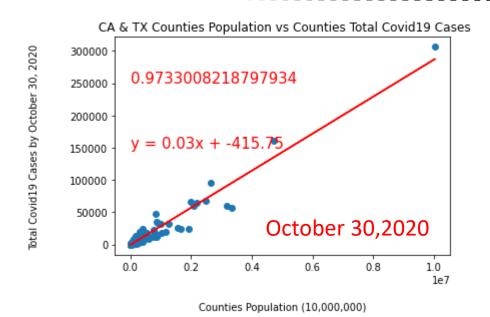


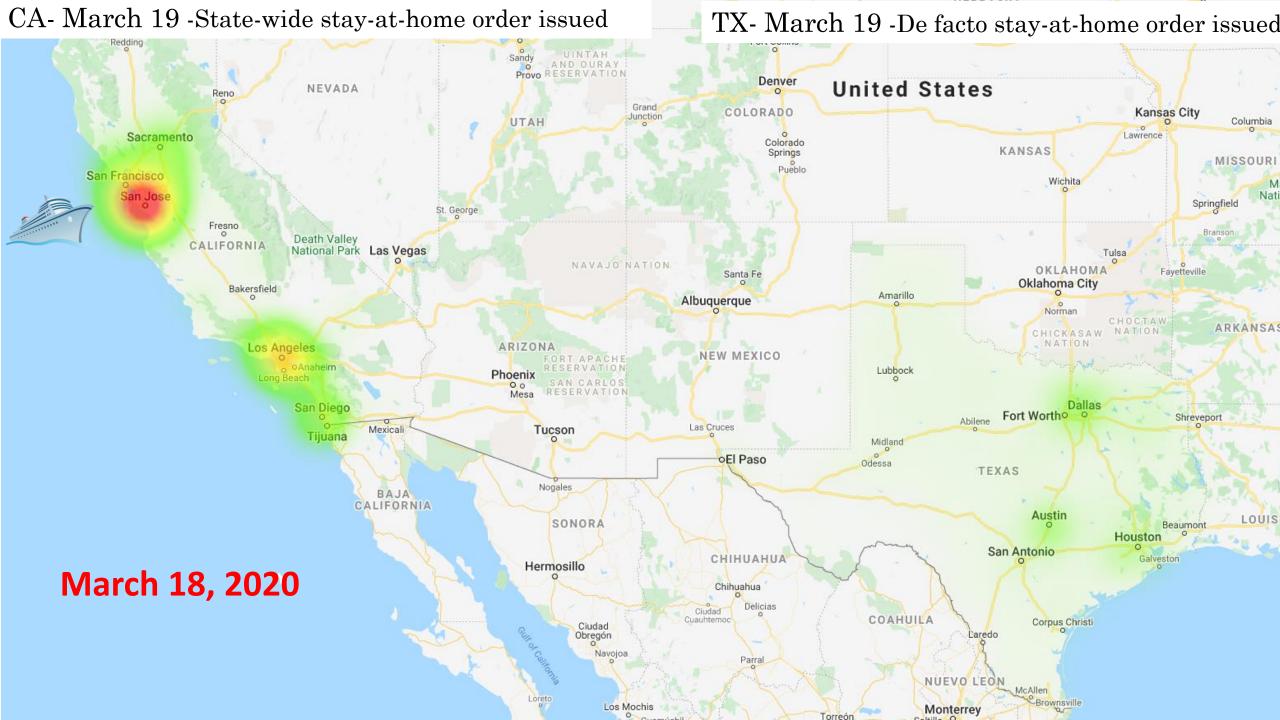
### Exploratory Data Analysis: Total Confirmed Cases Related to Population Size

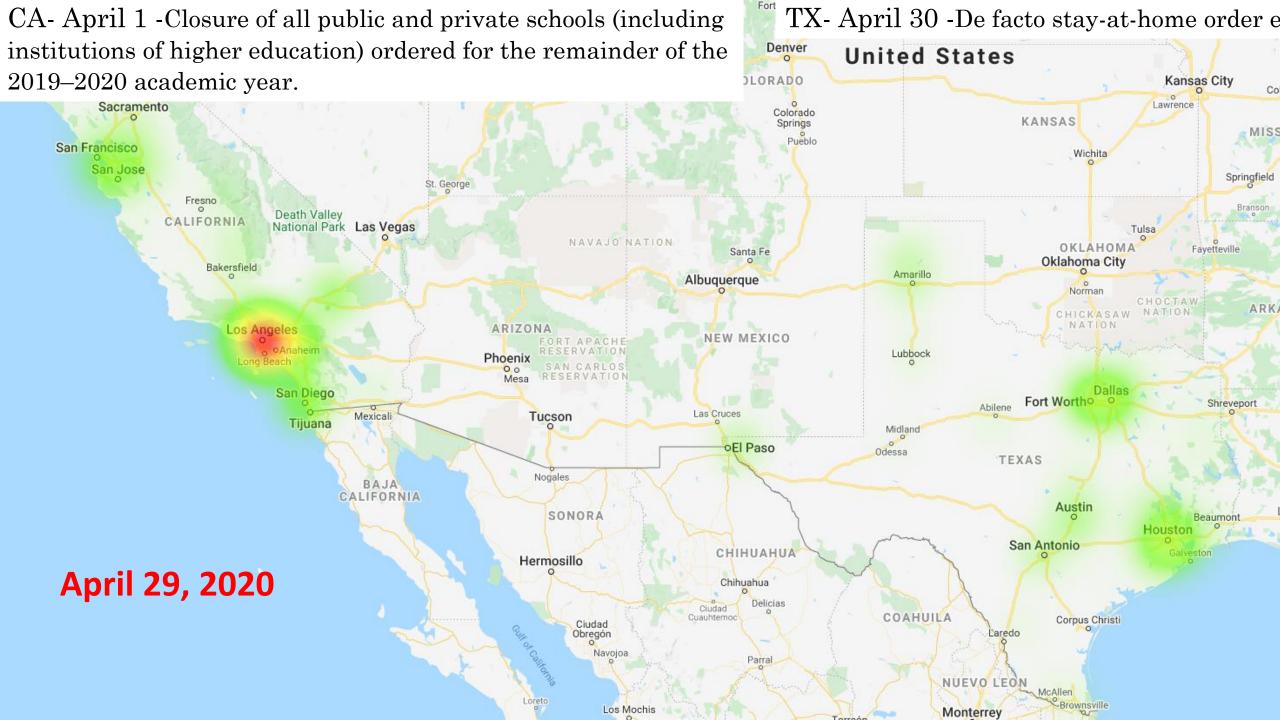




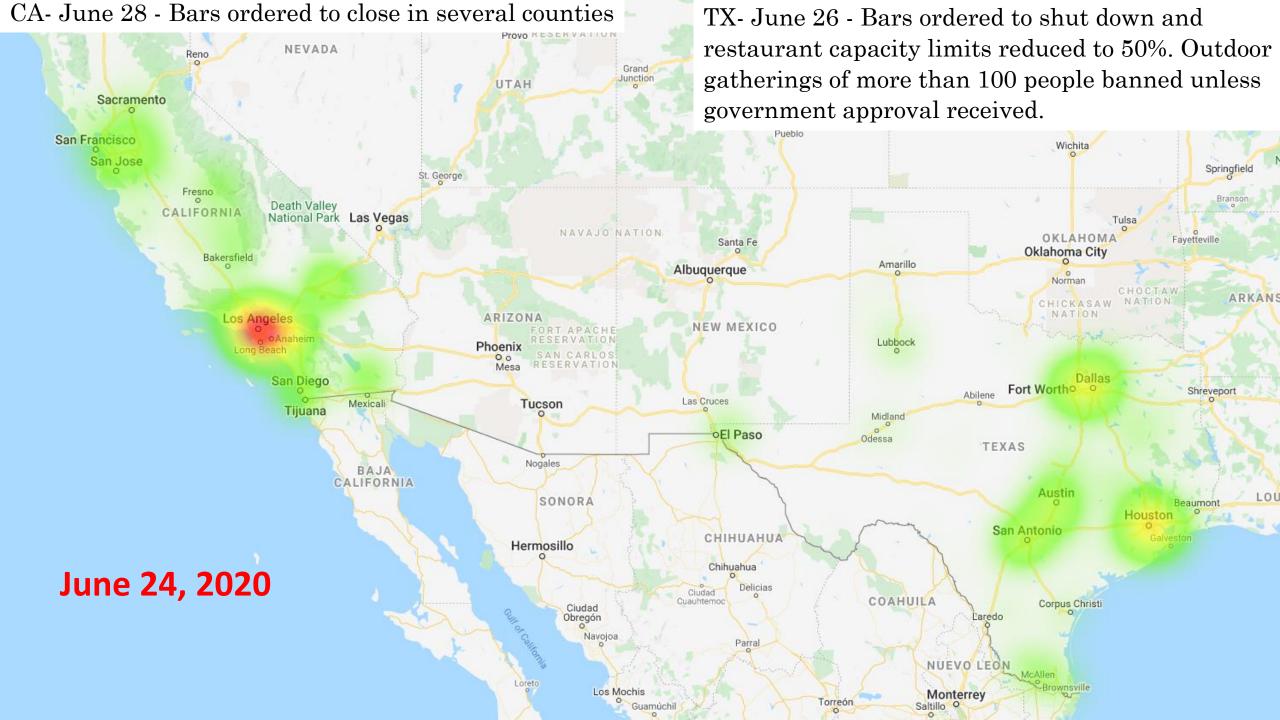


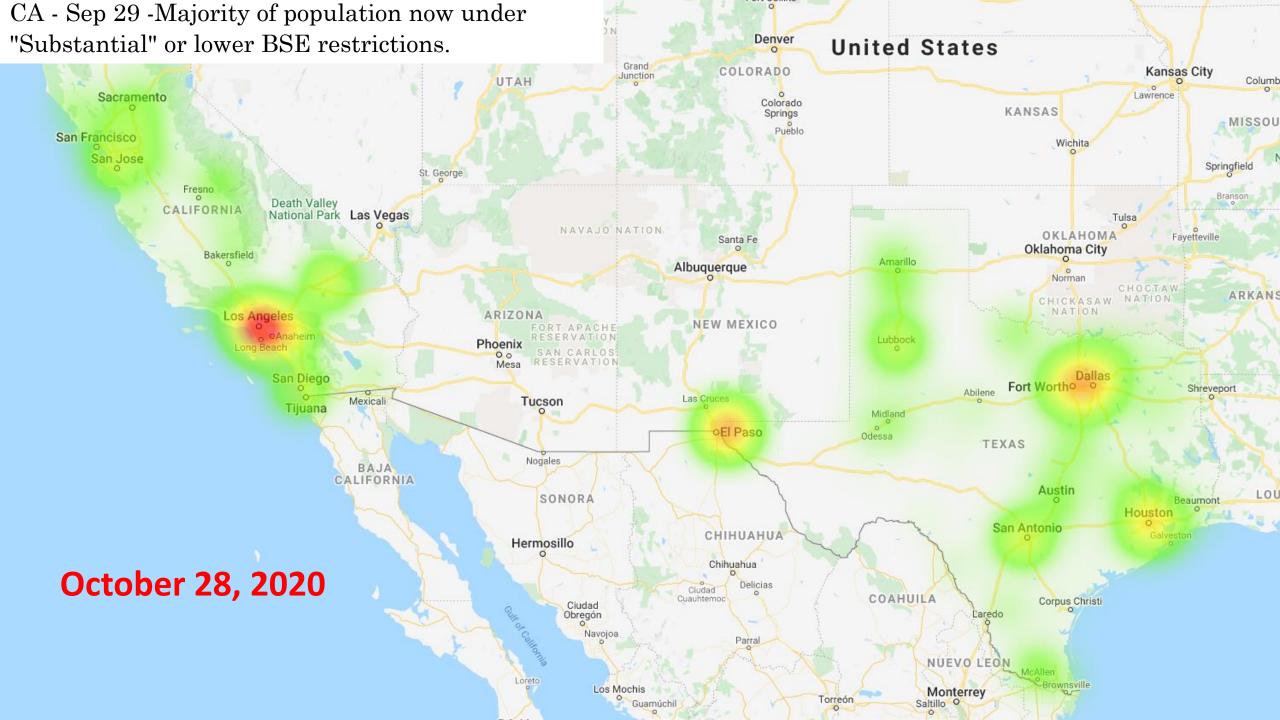






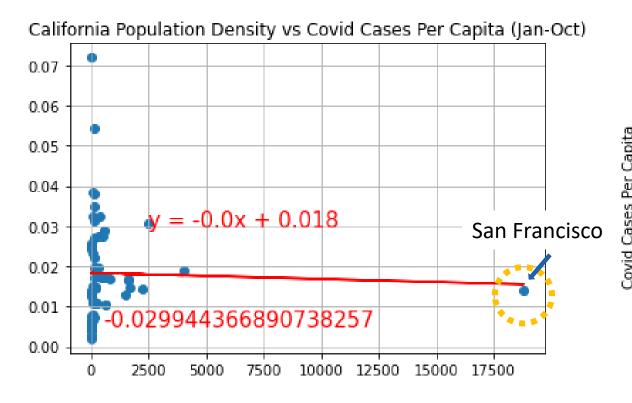
TX- May 1 - Start of Phase I: Retail CA-May 7 - State entered Stage 2 of its 4-stage reopening roadmap establishments, restaurants, movie theaters CA-May 18 - Businesses that were part of Stage 3 allowed to reopen shopping malls, libraries and museums per to operate at 25% occupancy. Sacramento Colorado Pueblo TX-May 18 -Start of Phase II: Reopenin San Francisco San Jose different types of businesses. Most business St. George allowed to operate at 25% occupancy. Resta Fresno Death Valley CALIFORNIA National Park Las Vegas occupancy limit increased to 50%. NAVAJO NATION Santa Fe Oklahoma City Bakersfield Amarillo Albuquerque ARK Los Angeles ARIZONA **NEW MEXICO** Lubbock Phoenix San Diego Fort Wortho Las Cruces Mexicali Tucson Tijuana Midland oEl Paso TEXAS Nogales BAJA CALIFORNIA Austin SONORA San Antonio CHIHUAHUA Hermosillo May 27, 2020 Chihuahua Ciudad COAHUILA Corpus Christi Ciudad Obregón Navojoa Parral NUEVO LEON Los Mochis Monterrey

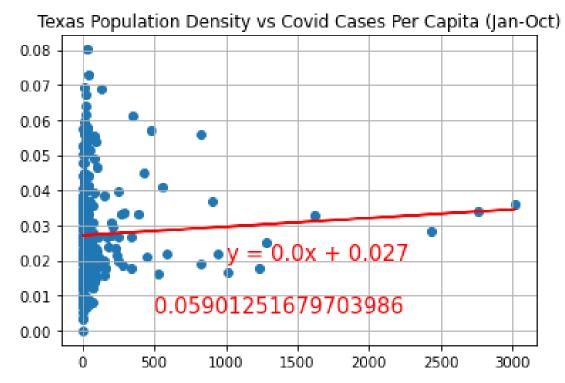




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State	Population (million)	Difference in Population	Land Area (Sq. Mi.)	Difference in Land Area	People per Sq. Mi.
CA	37	CA 8 million more	155,779	TX 105K Sq. Mi. more	254
TX	29		261,267		105





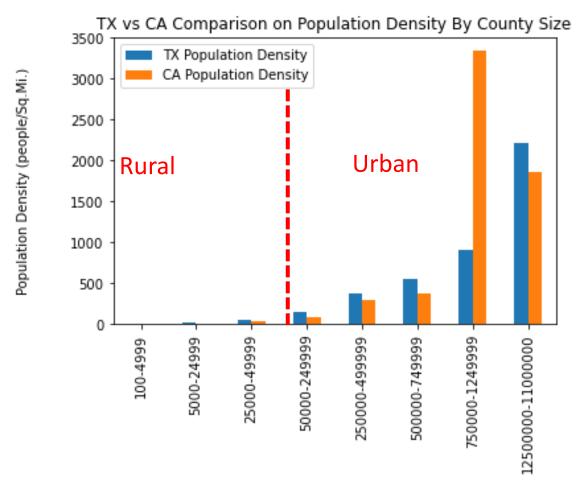


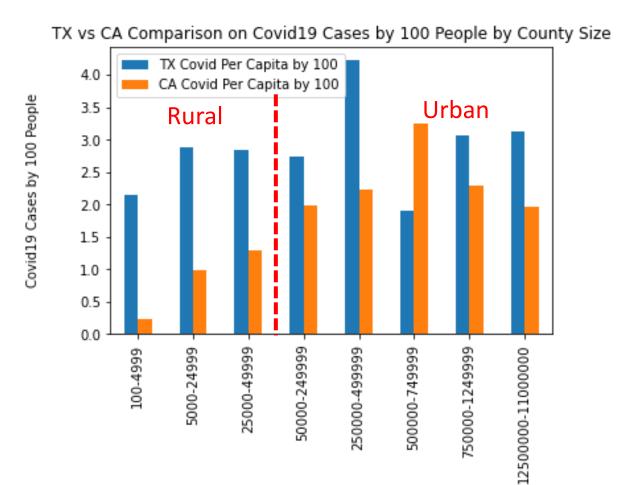
Population Density

Population Density



## Population Density and Covid19 per 100 people







County by Population Size

County by Population Size

## Revisit Question Study Question

Do rates of Covid19 differ based on State policies implemented?



# Study Findings

- Regardless of the policies implemented the spread is inevitable
- By implementing precursory measures you can slow down the spread
- How can it be that in lower density populations it is observed the same Covid19 per capita rates than in densely populated areas?



## Limitations

- Covid19 testing
- Policy implementation and execution
- Time constraints



## Things we would do different next time

- Include more states in the comparison
- Compare to other country policies



