

# School Reopening Decisions Research

Led By Bentley University Students

# Basic Information About Research

This Research trying to find factors may related to the university reopening decisions in the fall.

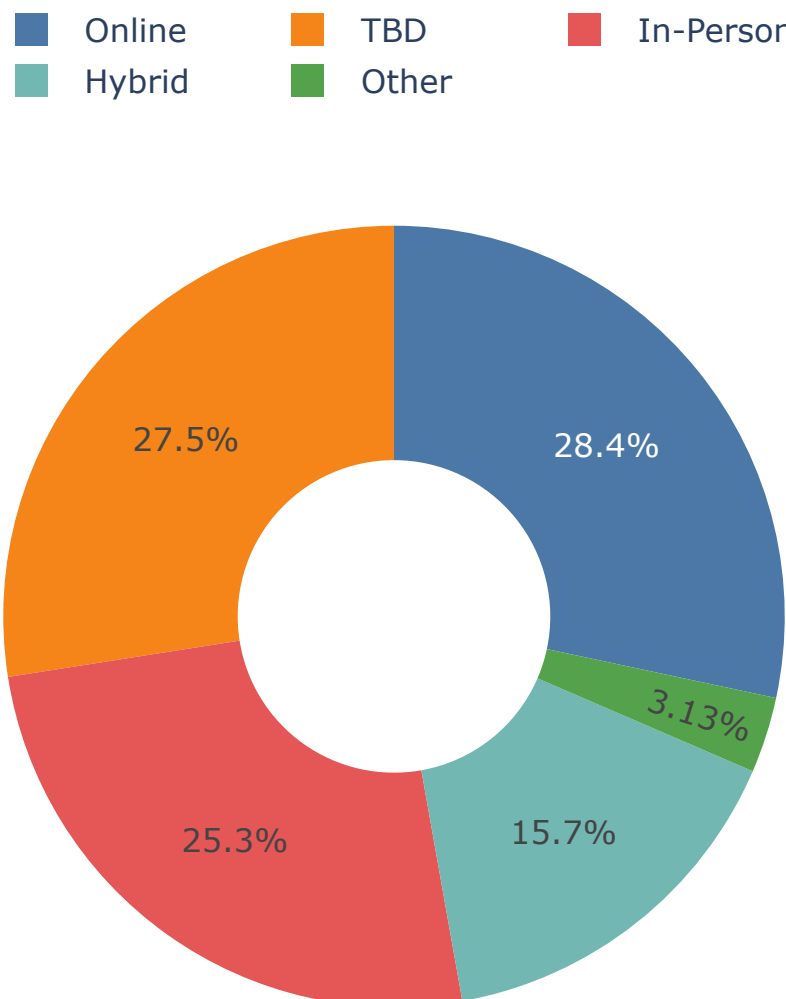
From research, we think they gonna be five main factors related to the decisions:

university information, covid situtaion,economic situation  
and politic situation

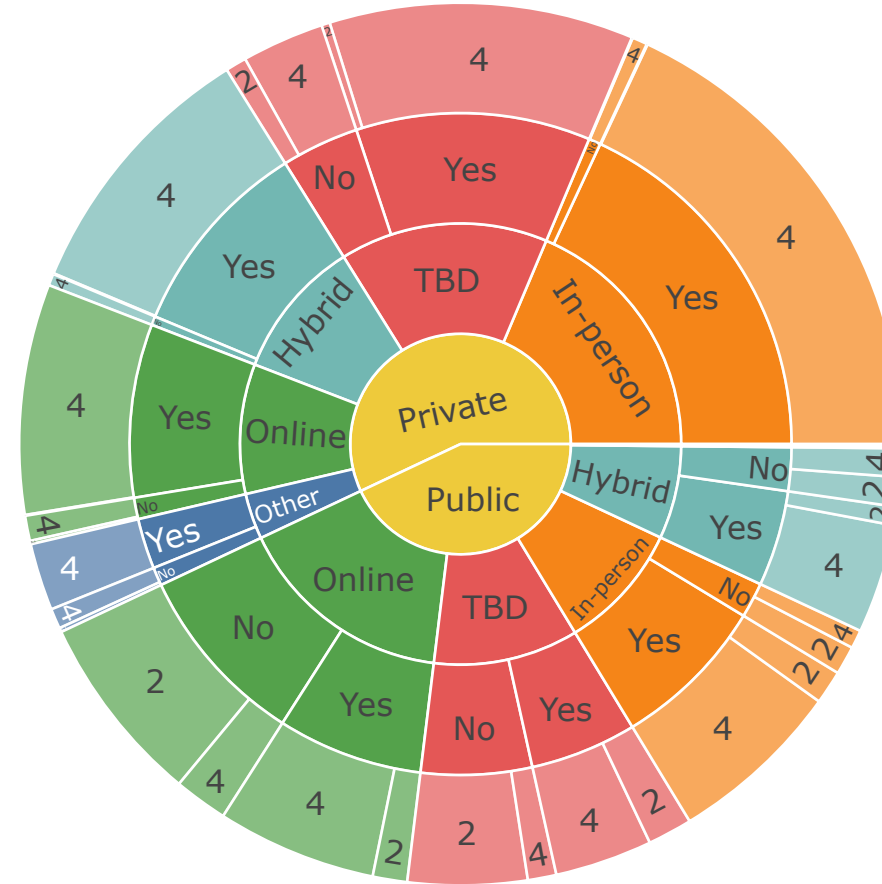
We trying to keep all our variables in county level to keep all the data indicates in the same level

So we can analysis without any considers to location level

## University Plan Percentage



# Sunburst Graph of University Features

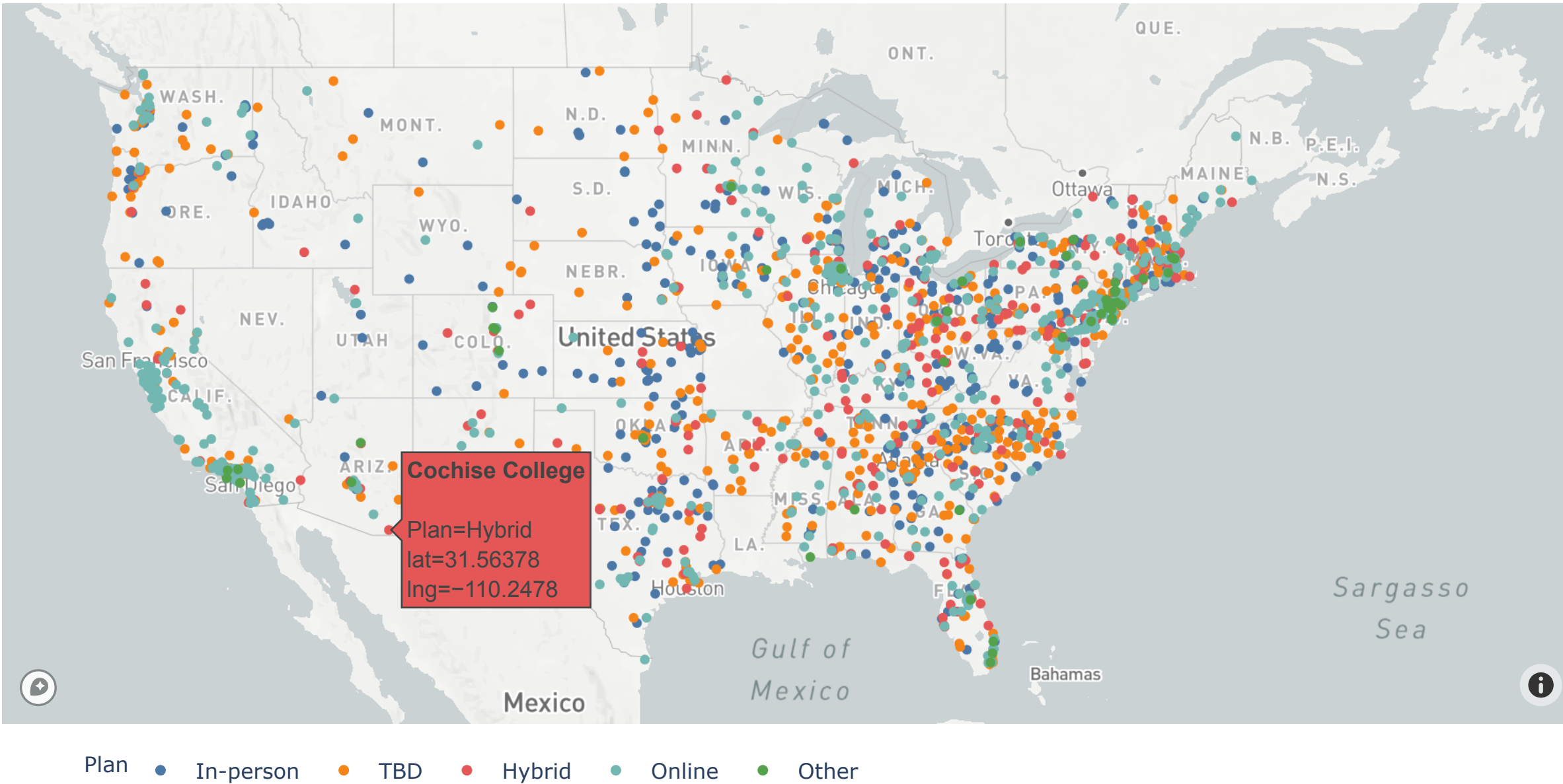


## Data Source

Data Comes from different source:

- University Information is from Chronicle Higher Education
- Covid data is mainly from CDC and NY Times Tracker
- Economic data is from Bureau
- Political data is from

## Location Pattern of University Plan



## Variable Inspection

## Using barplot and boxplot to inspect the relationship between Plan and other variables

## Detailed Table of University Plan

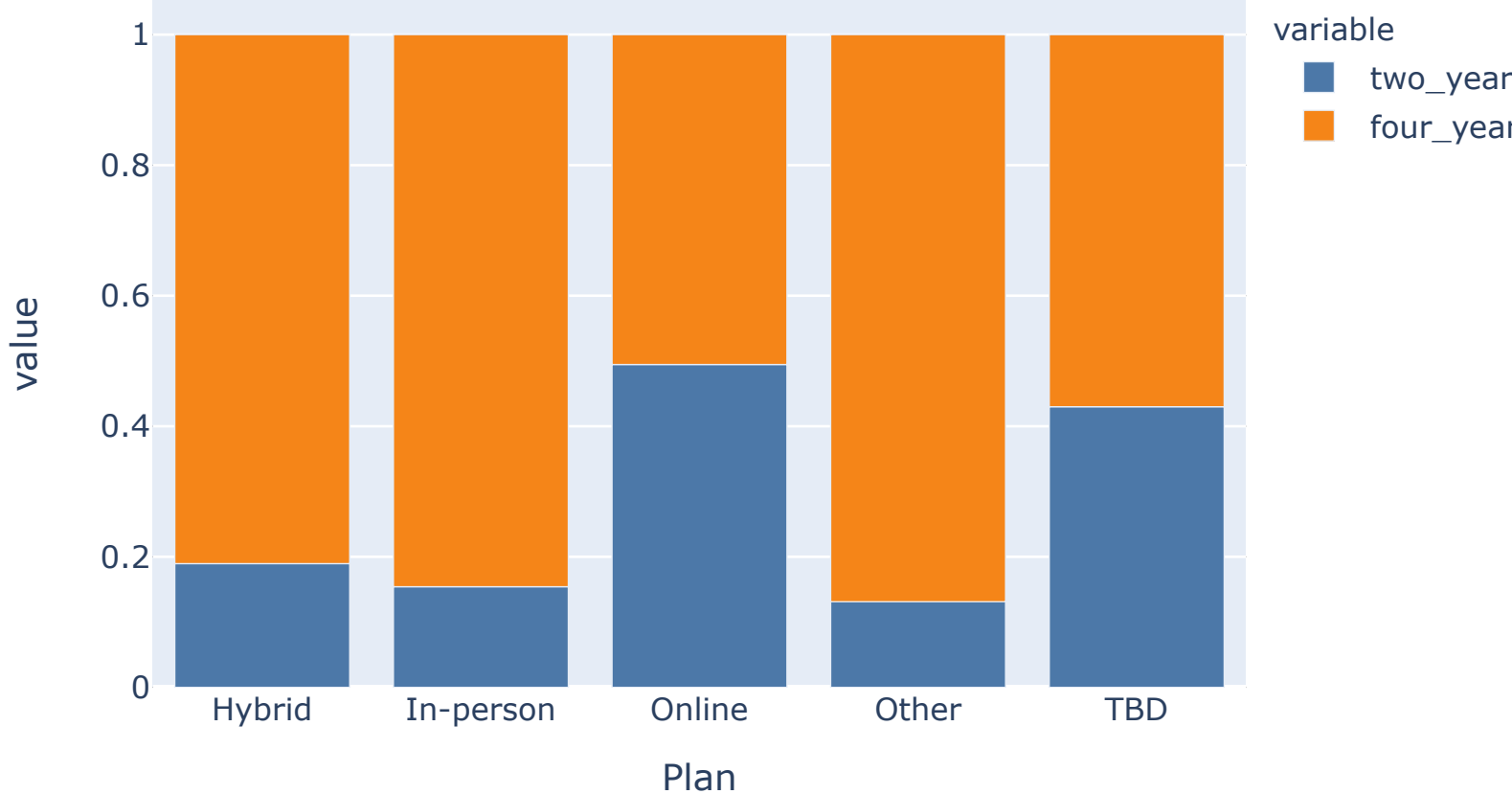
Institution	Plan	State	Control
Abilene Christian University	In-person	TX	Private
Hardin-Simmons University	TBD	TX	Private
McMurry University	Hybrid	TX	Private
Abraham Baldwin Agricultural College	Online	GA	Public
Academy for Nursing and Health Occupations	Other	FL	Private
Florida Atlantic University	Online	FL	Public
Lynn University	In-person	FL	Private
Palm Beach Atlantic University	In-person	FL	Private
Palm Beach State College	Online	FL	Public
Adams State University	In-person	CO	Public
Adelphi University	Online	NY	Private
Hofstra University	In-person	NY	Private
Molloy College	TBD	NY	Private

## Data Download

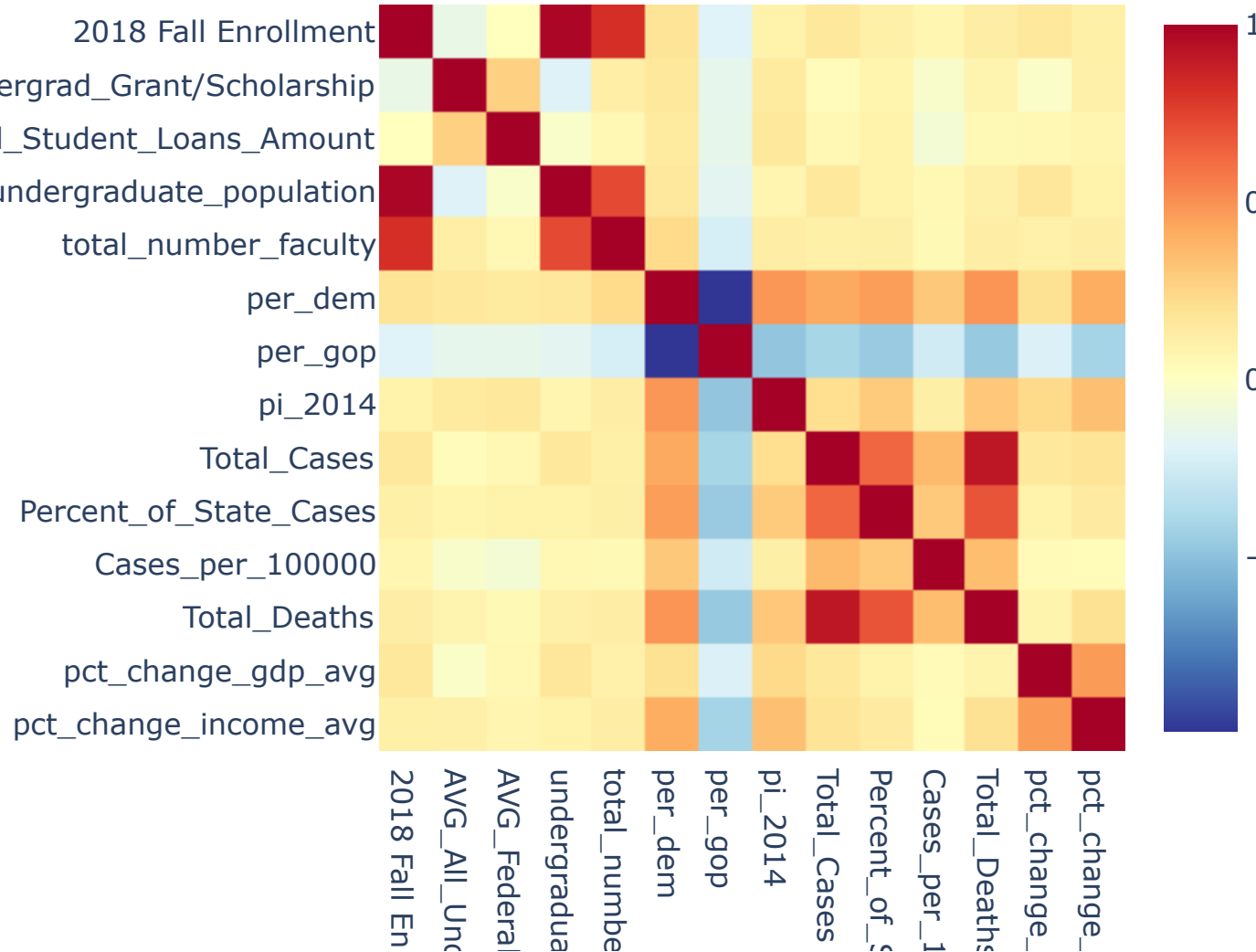
## Numerical Variables Choose

## Categorical Variables Choose

$\times$  two\_year  $\times$  four\_year  $\times$  



## Correlation among variables



## Model Performance and Interpretation

## Actual model performance and interpretation