Math Models - Alumni Analysis

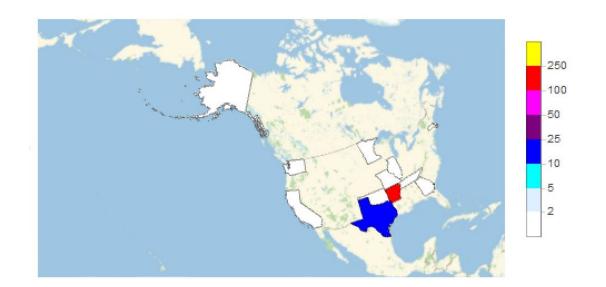
Gray, Shane, Kate, Callahan

Background

Background: Project Focus

- Had very loose ideas initially
- Wanted to do something related to events
- Eventually narrowed it down to
 - Looking at trends of alumni movement
 - Looking at what age group donates the most
 - Looking at where events are currently held

Where we have events

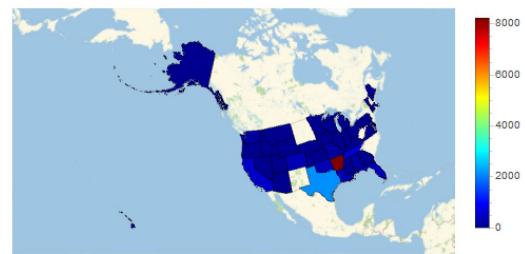


| State | Number of Events |
|-------|---------------------|
| | |
| TX | 27 |
| TN | 15 |
| DC | 6 |
| MO | 4 |
| NY | 3 |
| GA | 2 |
| CA | 2 |
| AK | 1 |
| IL | 1 |
| MA | 1 |
| OK | 1 |
| WA | 1 |
| MN | 1 |

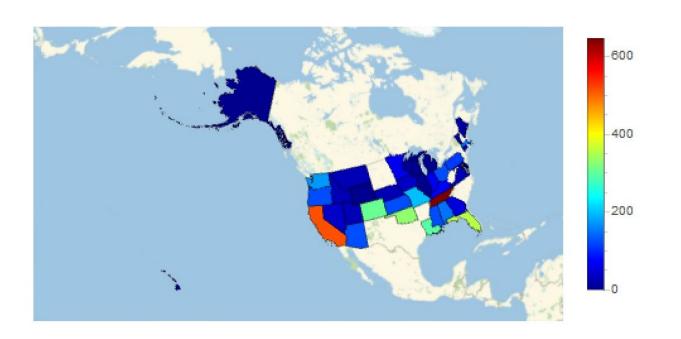
Plotting Each Zip Code

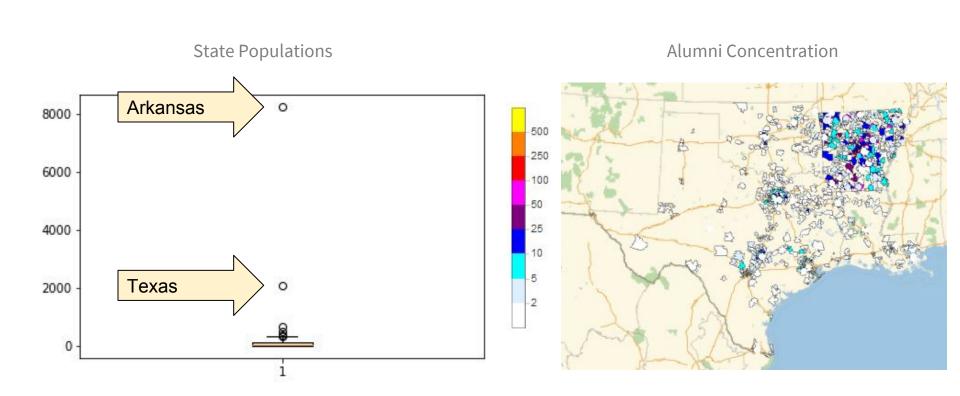


Plotting by State



States by Population Excluding AR & TX



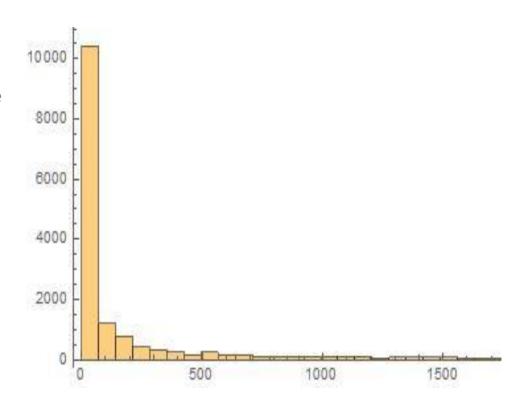


Donations

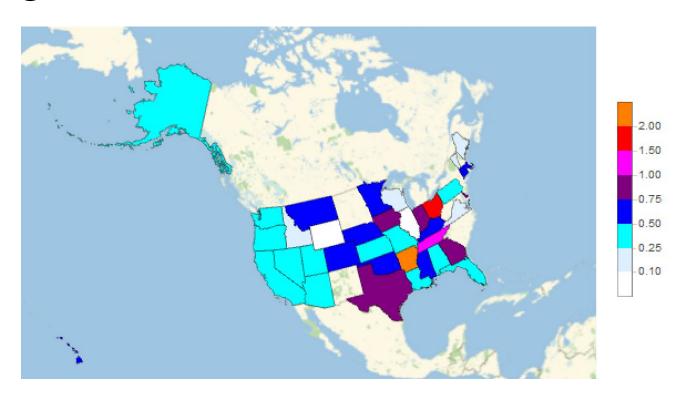
Histogram of all donations in dataset.

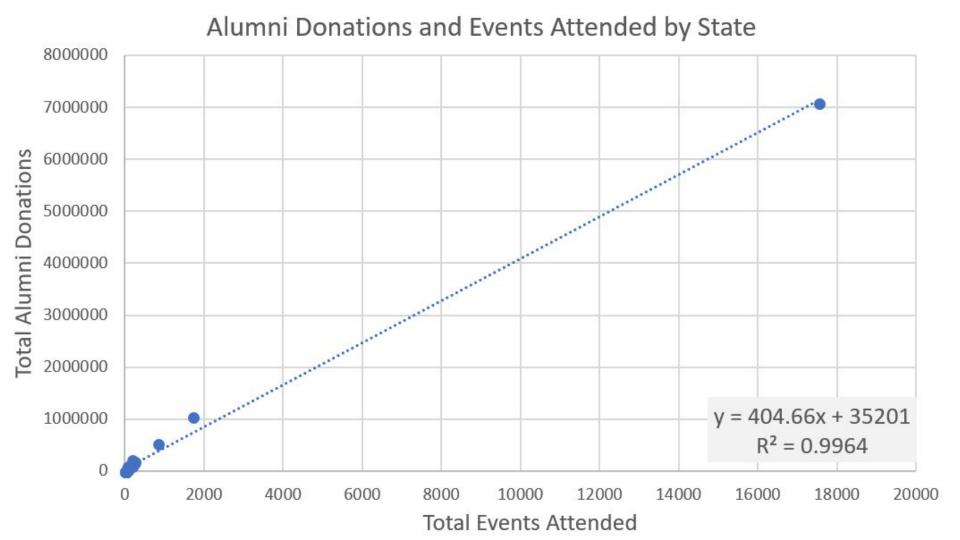
Large donations make up a very small percentage of total donations.

The vast majority of people do not donate to the college.



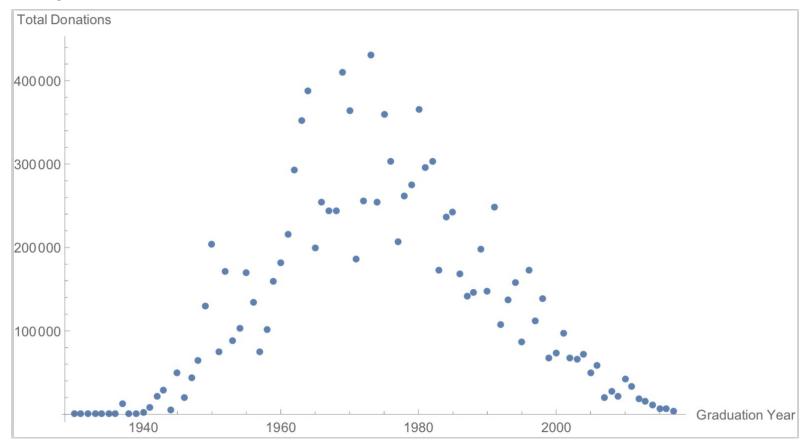
Average Events Attended Per Alum





Analysis

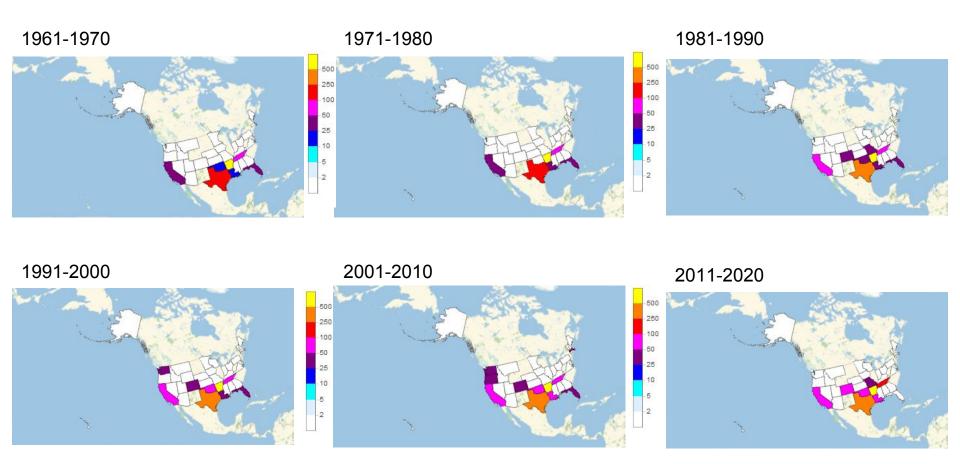
Analysis: Graduation Year and Alumni Giving



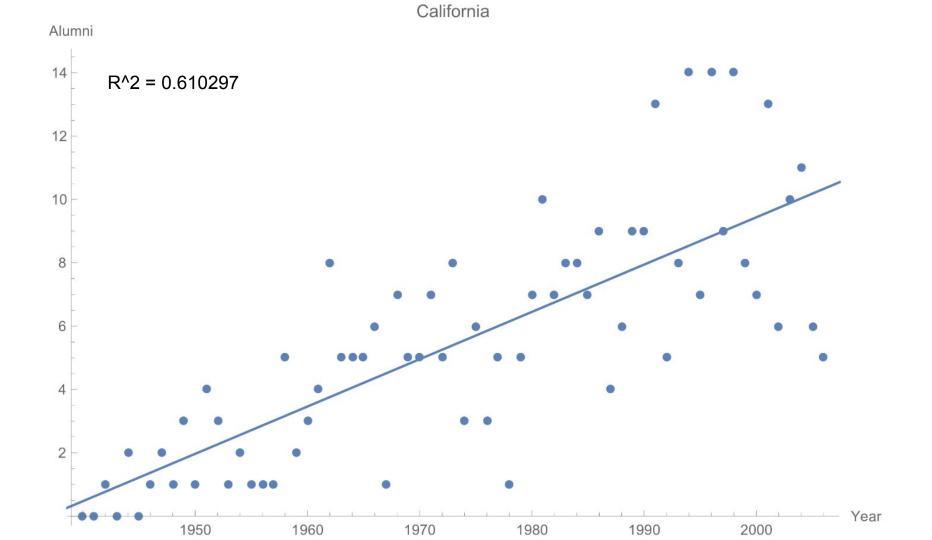
Analysis: Graduation Year and Alumni Giving

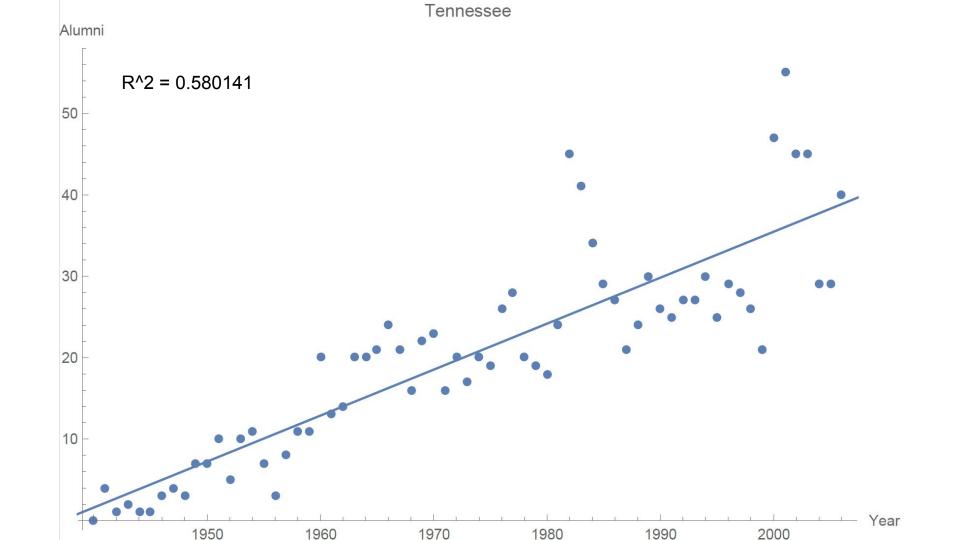
- Total donations by alumni every year from 1940-2017
- Alumni who graduated in the 70s donated more
- Probably due to being out of college for 20-25 years

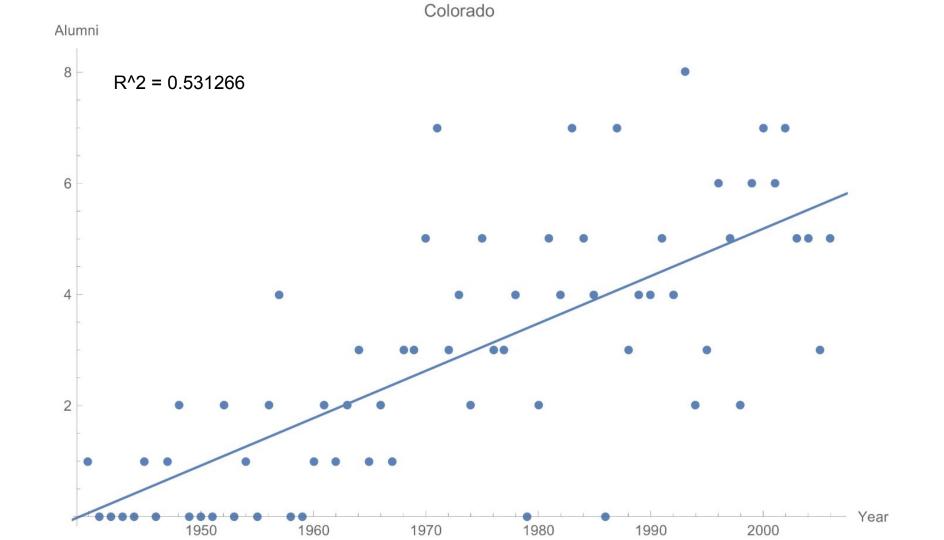
Alumni Distribution by Graduation Decade

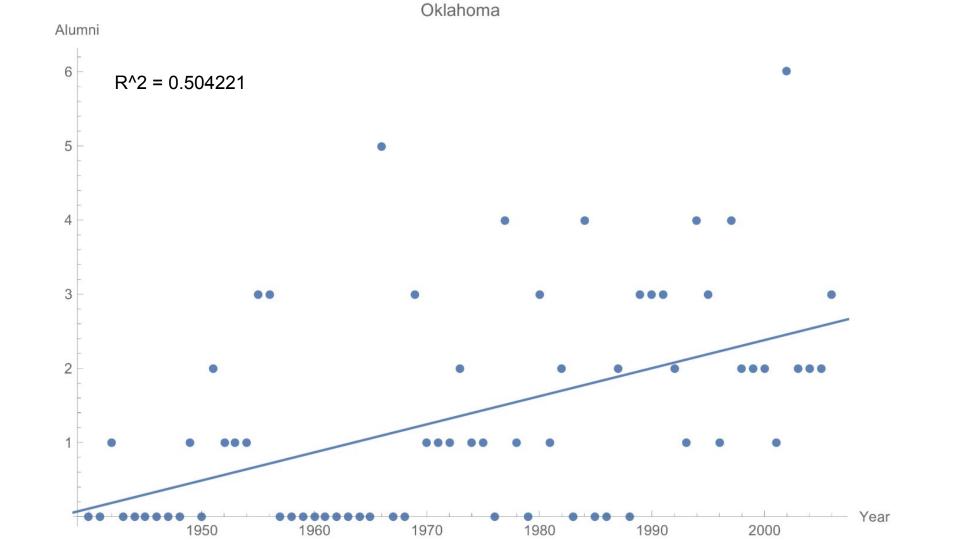


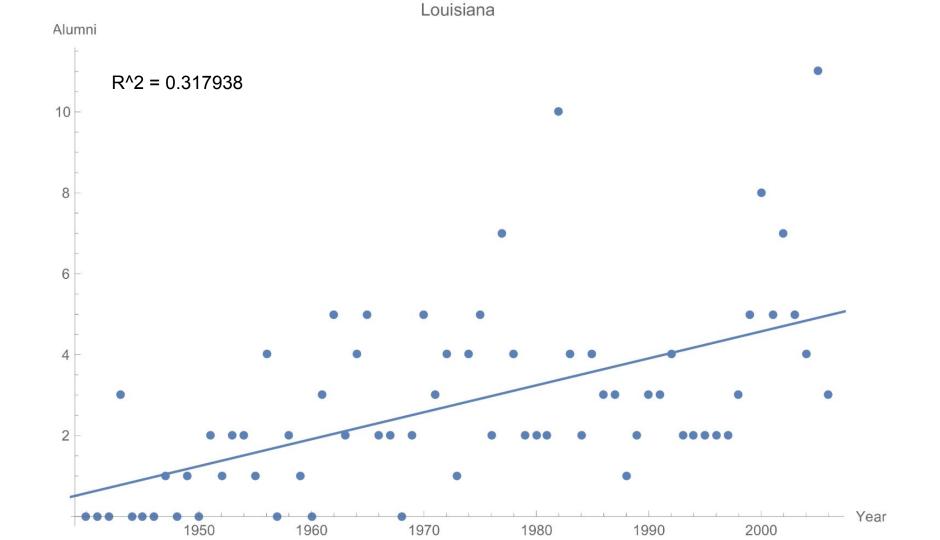
Alumni Growth









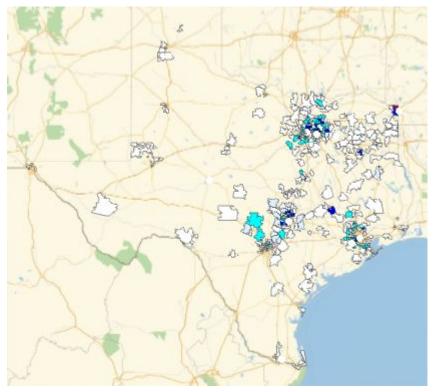


Alumni Concentrations

Arkansas Alumni

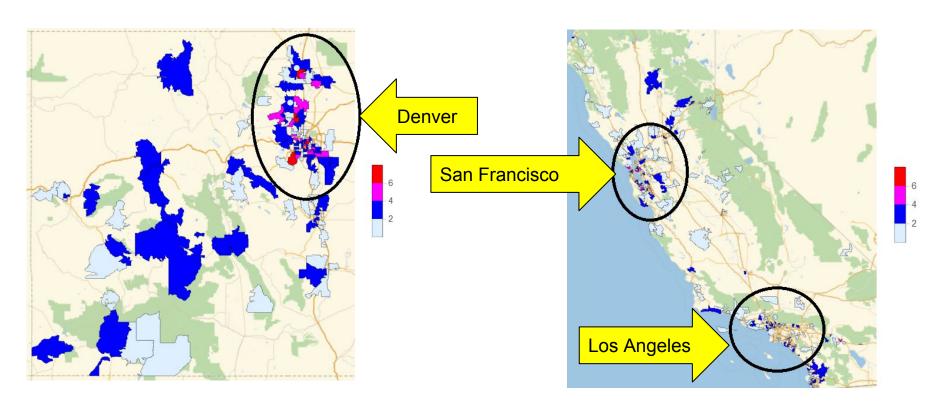
500 250 100 50 -25

Texas Alumni

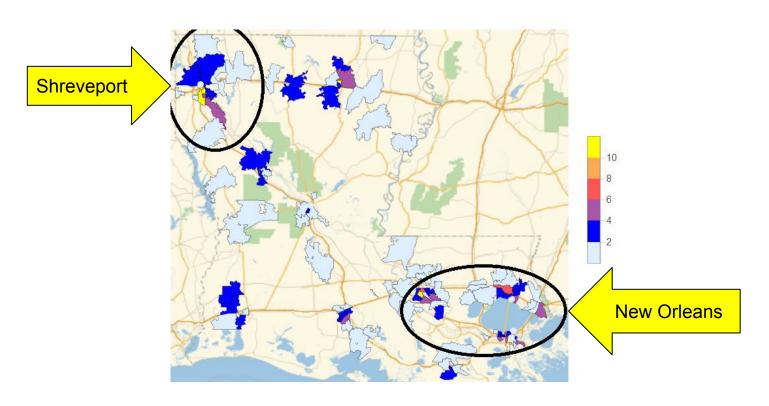


Colorado

California

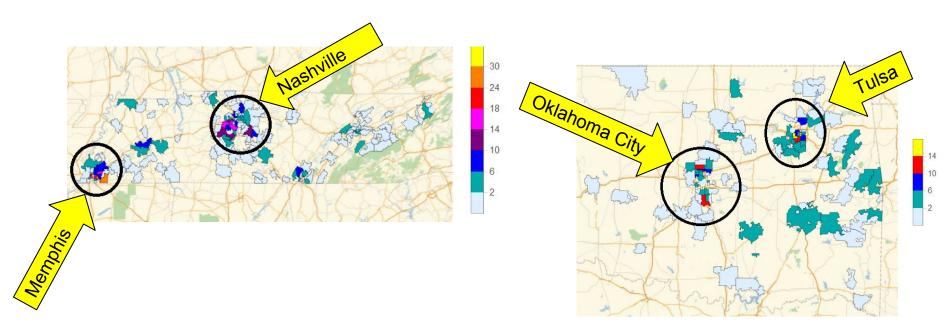


Louisiana



Tennessee

Oklahoma



Policy Suggestions

Where we should hold future events

- California
 - San Francisco
 - Los Angeles
- Colorado
 - Denver
- Louisiana
 - Shreveport
 - New Orleans

- Tennessee
 - Memphis
 - Nashville
- Oklahoma
 - Tulsa
 - Oklahoma City

Thank You

Questions

Comments

Critiques