Postsecondary Education Descriptive Statistics

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Over View

Motivation

 Education is vital not only for individuals, but also for the government and society.

Data

2010-2012 American Community Survey for US population records.

http://www2.census.gov/acs2012_3yr/pums/csv_pus.zip

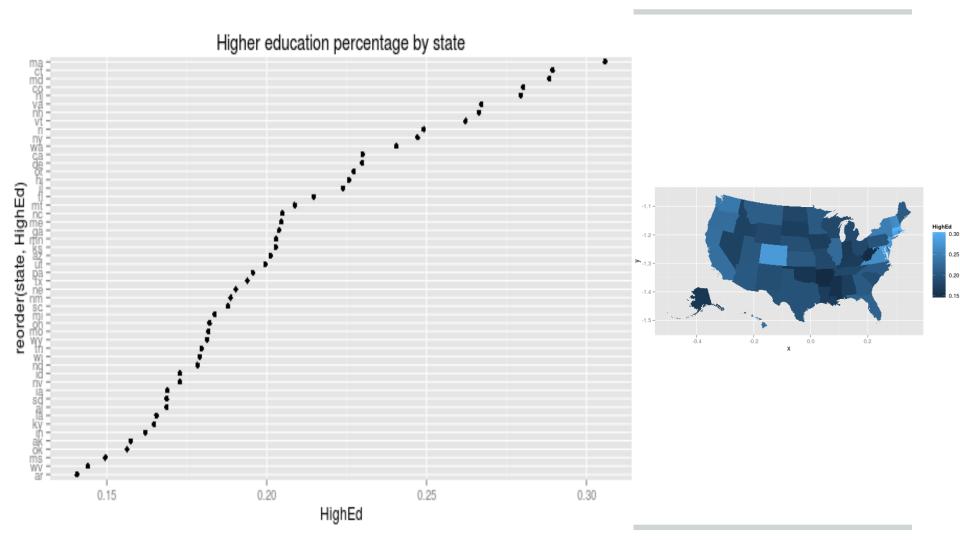
Questions of Interests

- What percentage of people have attained some sort of postsecondary education in each of the fifty states?
- For each race, what is the proportion of people who attained some sort of postsecondary educational degree in each state?
- Which of these educational degrees has the highest average salary for each state?

Findings

Question 1

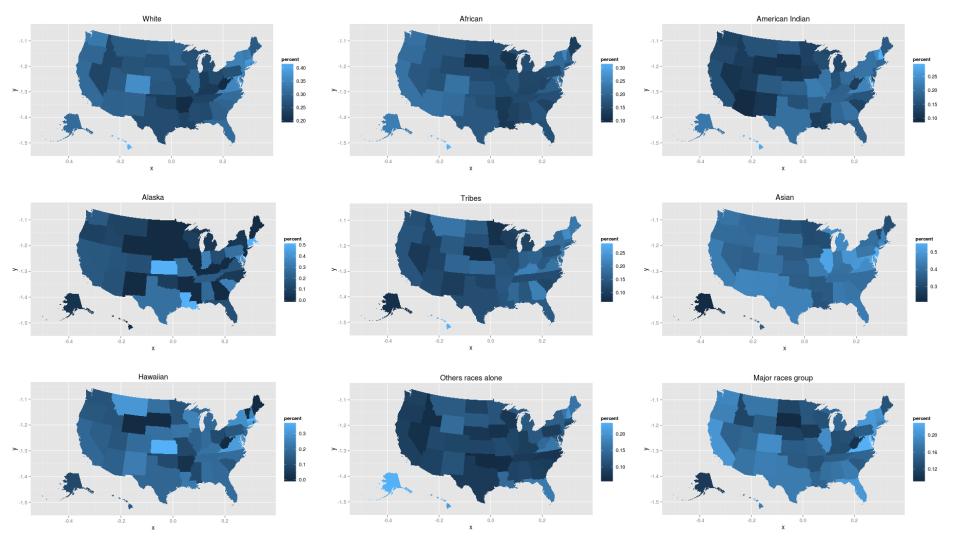
- The Northeastern US contains the highest proportions of people receiving the post secondary degrees.
- Massachusetts has the biggest proportion of highly educated people across the US.
- The proportion of highly educated people may be related with the range of educational facilities.



Findings

Question 2

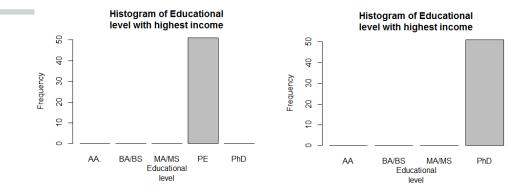
- The highest percentage of population with Associate's degree or above is Asian.
- White and Hawaiian have the second and third highest percentage respectively.
- Alaska has the lowest percentage of higher education attainment.
- Geographic location may have effects on the level of education across different races.



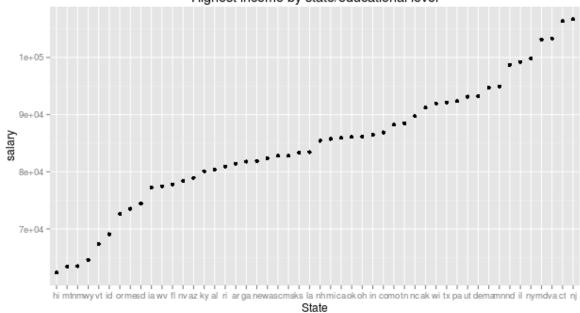
Findings

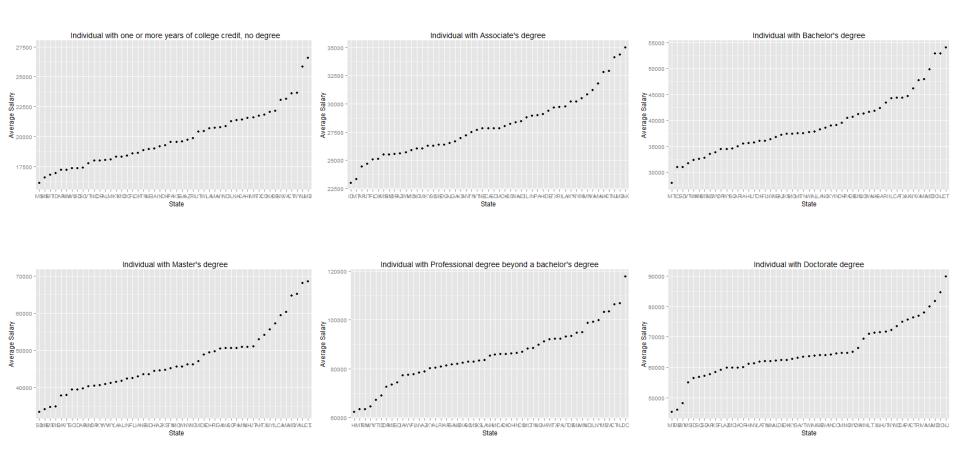
Question 3

- The educational degree with highest average salary is "Professional degree beyond Bachelor's degree" in all fifty states.
- Location is related with the average income of people holding the same educational degrees.
- People having higher educational degrees would be more likely to have higher average income.



Highest income by state/educational level





Obstacles

- Filter useful information and combine data sets.
- Process data in R by using dplyr and display the findings graphically.

Future Questions/Work

- Explore more characteristics of those who continue their education past secondary school.
- Experiments to find causal relationships between the characteristics and levels of educational attainment.