

Final Project

Matti Harrison

10/18/2018

Does it matter if you choose a Private or Public University?

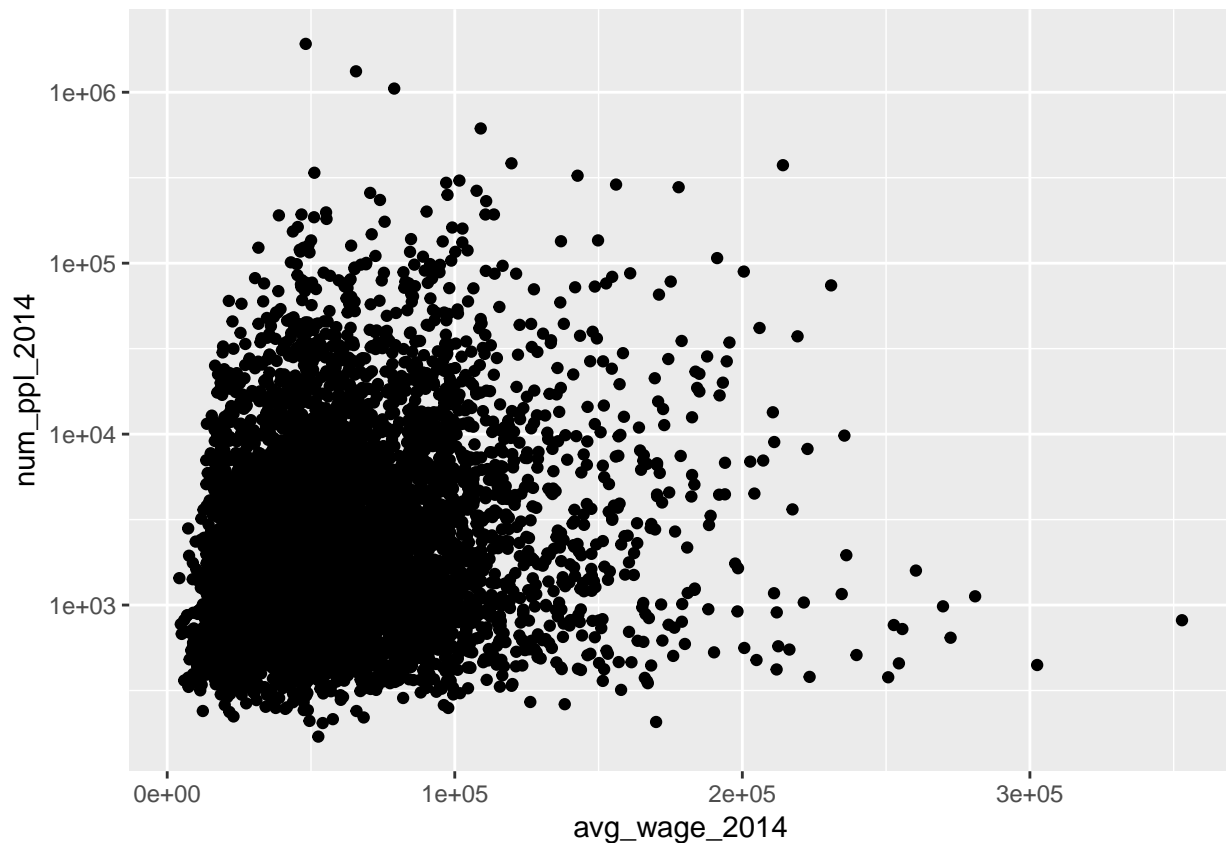
I want to compare the top public and private Universities to see if there is a difference in average earnings after graduation. For my initial comparisons I will see the differences in tuition vs. debt ratio. Then I will continue on to the most common major for each school, this usually predicts the wage. Then I will compare the average earnings between the different schools.

I originally wanted to get the #1 private/public university and then also the #50 school for each to be able to standardize. #1 schools are in the top for overall school so #50 will be able to see a clear difference. I got the original data from Data USA.

I am not sure if there is a way to get data from all public/private universities into 1 dataset.

private- (1) Harvard (50) Wake Forest University

public- (1) UC Berkeley (50) University of Oregon



```
##      soc_name      soc_sumlevel      soc_id      cip_name
## Length:15538      Min.      :3      Length:15538      Length:15538
## Class :character      1st Qu.:3      Class :character      Class :character
## Mode  :character      Median :3      Mode  :character      Mode  :character
##                               Mean  :3
```

```

##          3rd Qu.:3
##          Max.    :3
##          NA's    :8188
##  cip_sumlevel  cip_id  university_name  university_id
## Min.    :0      Length:15538      Length:15538      Length:15538
## 1st Qu.:0      Class :character  Class :character  Class :character
## Median :0      Mode  :character  Mode  :character  Mode  :character
## Mean    :0
## 3rd Qu.:0
## Max.    :0
## NA's    :8188
## avg_wage_2014  avg_wage_2015  num_enrolled_pct_calc_2012
## Min.    : 4224  Min.    : 2080  Length:15538
## 1st Qu.: 36677  1st Qu.: 37431  Class :character
## Median : 54584  Median : 55147  Mode  :character
## Mean    : 61356  Mean    : 62117
## 3rd Qu.: 79269  3rd Qu.: 78958
## Max.    :352894  Max.    :398096
## NA's    :9420   NA's    :9303
## num_enrolled_pct_calc_2013 num_enrolled_pct_calc_2014
## Length:15538              Length:15538
## Class :character          Class :character
## Mode  :character          Mode  :character
##
##
##
## num_enrolled_pct_calc_2015 num_enrolled_pct_calc_2016 avg_wage_2016
## Length:15538              Length:15538              Min.    : 1209
## Class :character          Class :character          1st Qu.: 37743
## Mode  :character          Mode  :character          Median : 56707
##
##                          Mean    : 63619
##                          3rd Qu.: 81601
##                          Max.    :390121
##                          NA's    :9166
## enrollment_status_2012 enrollment_status_2013 enrollment_status_2014
## Length:15538              Length:15538              Length:15538
## Class :character          Class :character          Class :character
## Mode  :character          Mode  :character          Mode  :character
##
##
##
## enrollment_status_2015 enrollment_status_2016 num_enrolled_2012
## Length:15538              Length:15538              Length:15538
## Class :character          Class :character          Class :character
## Mode  :character          Mode  :character          Mode  :character
##
##
##
## num_enrolled_2013  num_enrolled_2014  num_enrolled_2015
## Length:15538      Length:15538      Length:15538
## Class :character  Class :character  Class :character

```

```

## Mode :character Mode :character Mode :character
##
##
##
##
## num_enrolled_2016 num_ppl_2014 num_ppl_2015 num_ppl_2016
## Length:15538 Min. : 170 Min. : 202 Min. : 178
## Class :character 1st Qu.: 854 1st Qu.: 857 1st Qu.: 842
## Mode :character Median : 1746 Median : 1721 Median : 1762
## Mean : 7457 Mean : 7564 Mean : 7656
## 3rd Qu.: 4602 3rd Qu.: 4582 3rd Qu.: 4684
## Max. :1918165 Max. :1898122 Max. :1976183
## NA's :9420 NA's :9303 NA's :9166
## oos_tuition_2013 oos_tuition_2014 oos_tuition_2015
## Length:15538 Length:15538 Length:15538
## Class :character Class :character Class :character
## Mode :character Mode :character Mode :character
##
##
##
##
## oos_tuition_2016 state_tuition_2013 state_tuition_2014
## Length:15538 Length:15538 Length:15538
## Class :character Class :character Class :character
## Mode :character Mode :character Mode :character
##
##
##
##
## state_tuition_2015 state_tuition_2016
## Length:15538 Length:15538
## Class :character Class :character
## Mode :character Mode :character
##
##
##
##

```