

simpsons

April 16, 2020

0.1 Exercise: Gender bias in graduate admissions

In this exercise, you will revisit an example of striking EDA-V that appeared in Science one of the most prestigious scientific publications in the world. The problem concerns gender bias in graduate admissions at the University of California at Berkeley. The following table shows admission by gender:

Sex	Accepted	Rejected
Female	557	1278
Male	1198	1498

This simple table of summary statistics appears to be troubling for UC Berkeley. It can be seen that about 30% of female applicants were admitted whereas nearly 45% of male applicants were admitted.

Question 1: If you were presented with this table what would next steps be? Without looking ahead, brainstorm next steps and potential explanations for the imbalance across sexes. (5 mts)

Answer: Eric Please write this

The original investigators (the authors of the Science paper referenced above) sought to gain further insights into admission by gender through the following visualization:

Question 2: What do you see? Any new insights or conclusions? Discuss with your partner. (10 mts)

Answer: Eric answer this

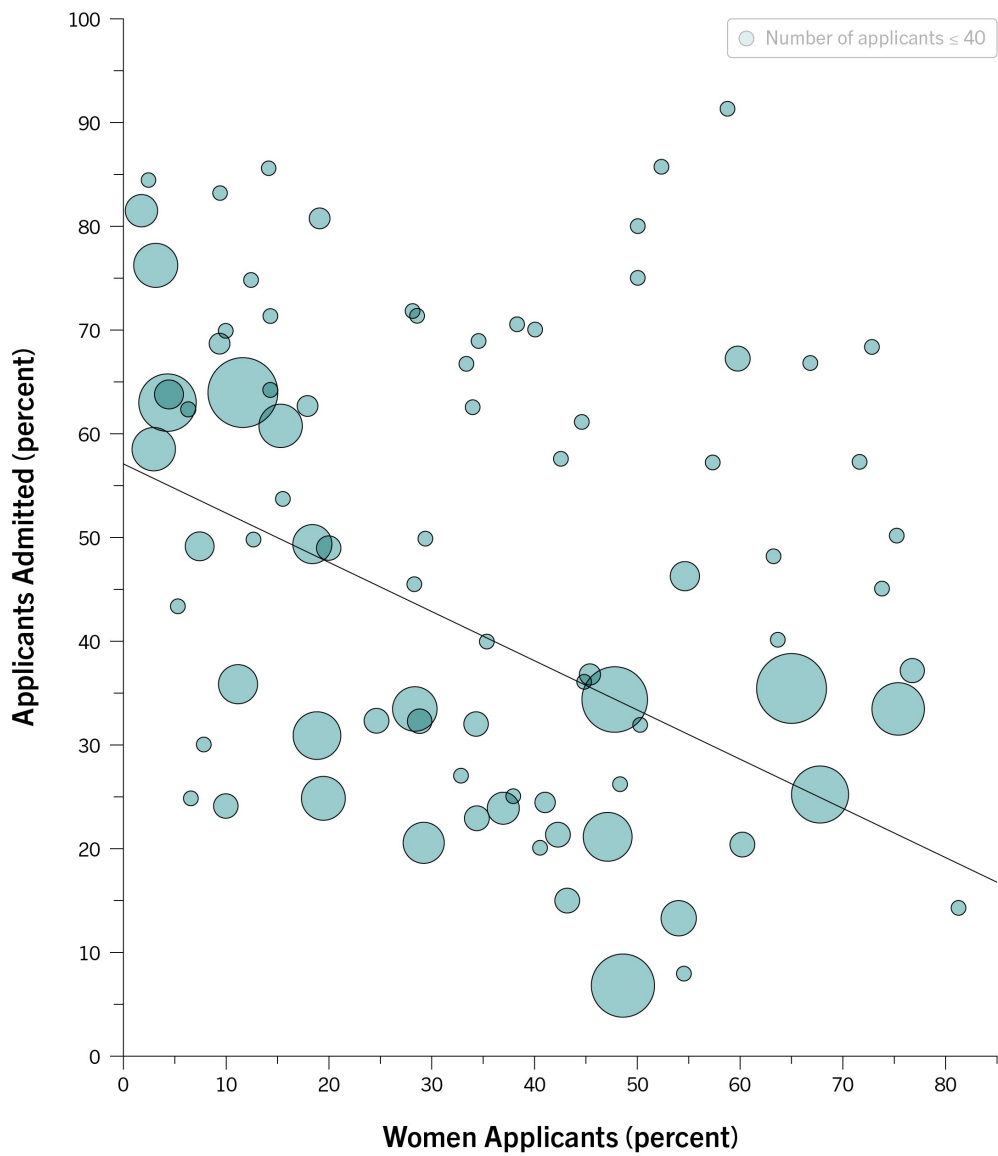
Finally, look at the following "mosaic" plot. This plot gives the fraction of men and women admitted/rejected across various departments within the university.

Question 3: Does the mosaic plot above give additional information than the previous table and plot?

[]: The preceding figure shows that more women applied to departments with smaller acceptance rate. However, this figure doesn't really drive the point home as clearly as the following mosaic plot which shows the admissions by department and sex. Examine this figure and discuss.

Question 4: What general conclusions can we draw from this exercise? Answer: ERic please write this

[]:



Student Admissions at UC Berkeley

