

Team 02 Project

Isabella Hundley, Admir Isnaeni, Inchan Kim, Peyton Thompson

April 20, 2018

Intro

Our team wanted to know how an LSU graduate's past internships affect their salary after graduation, if at all.

Results

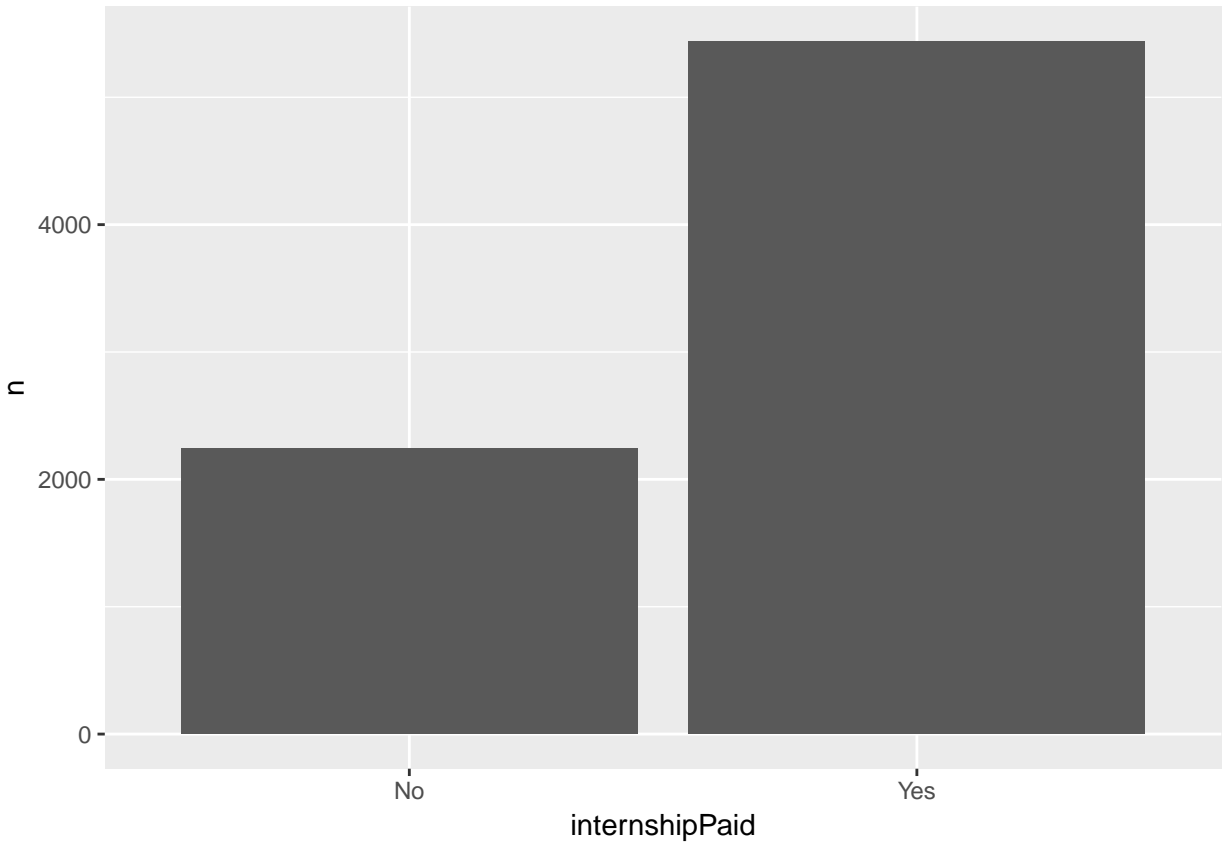
Number of Internships

Paid or Unpaid Internships

As we have stated previously, of all of the LSU graduates from 2017, 4981 had internships while completing their degree.

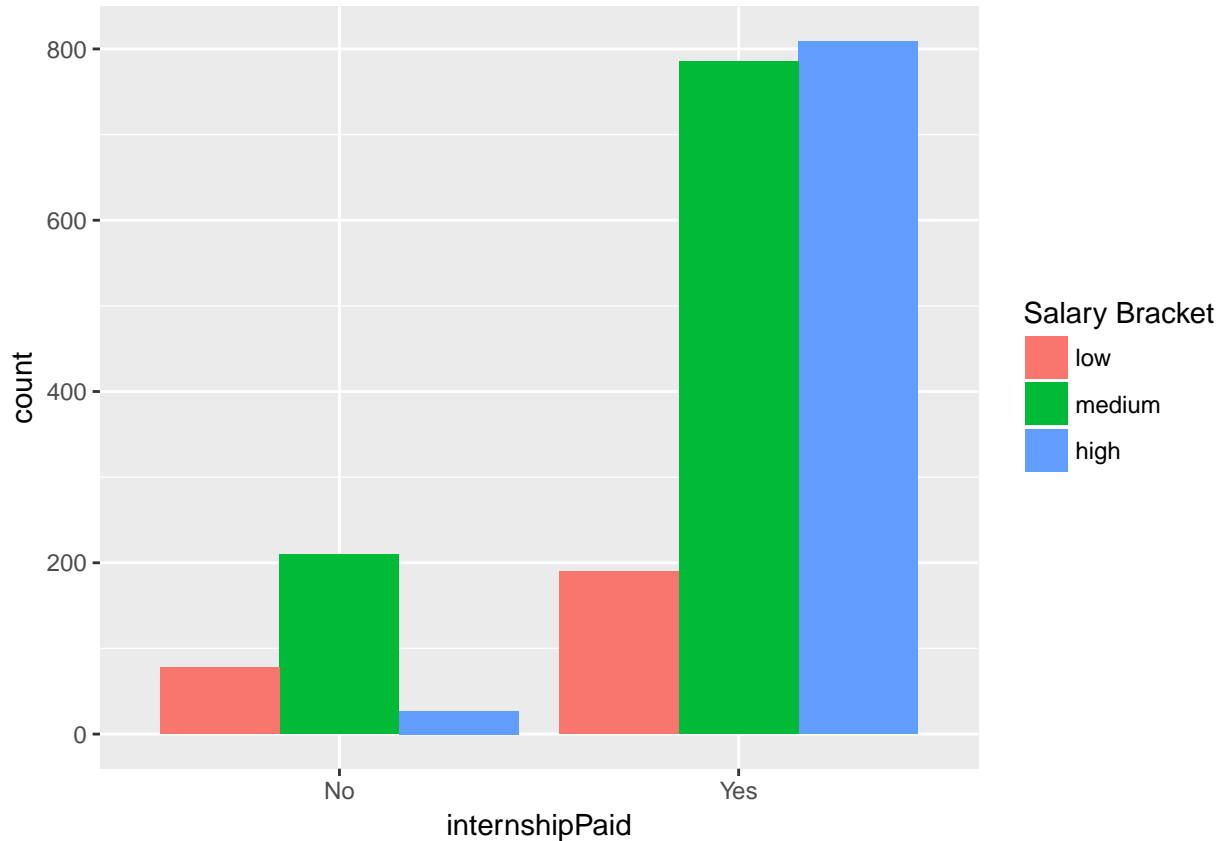
From this number there is a total of 2240 unpaid internships, and 5440 5440 paid internships taken by students that graduated in 2017.

In this analysis we will find out about the correlation between paid and unpaid internship on the starting salaries for graduated students in 2017.



From the dataset we found out that 2099 get a job right after graduation. The distribution based on the salary bracket is :

- 78 graduates with unpaid internships, and 190 graduates with paid internships got high starting salaries.
- 27 graduates with unpaid internship, and 809 graduates with paid internship got medium starting salaries.
- 210 graduates with unpaid internship, and 785 graduates with paid internship got low starting salaries.



Based on data and graph above we can conclude that paid internship have highly positive correlation on starting salary with the highest percentage of 0.073 for high starting salary, and second highest of 0.311 for medium starting salary.

Employer Loyalty

How LSU Graduates Stack Up

To put everything in perspective, we wanted to compare the starting salaries of LSU graduates to that of the average college graduate in the US. To do this, we used a dataset from *The Wall Street Journal* (WSJ) that included the median starting salaries of college graduates by major: http://online.wsj.com/public/resources/documents/info-Degrees_that_Pay_you_Back-sort.html.

Of the 50 majors listed in the WSJ dataset, only 39 matched up with the majors of the LSU graduates who went into the workforce after graduation. Some of the major names had to be adjusted to match up properly to the WSJ dataset.

The changes that were made:

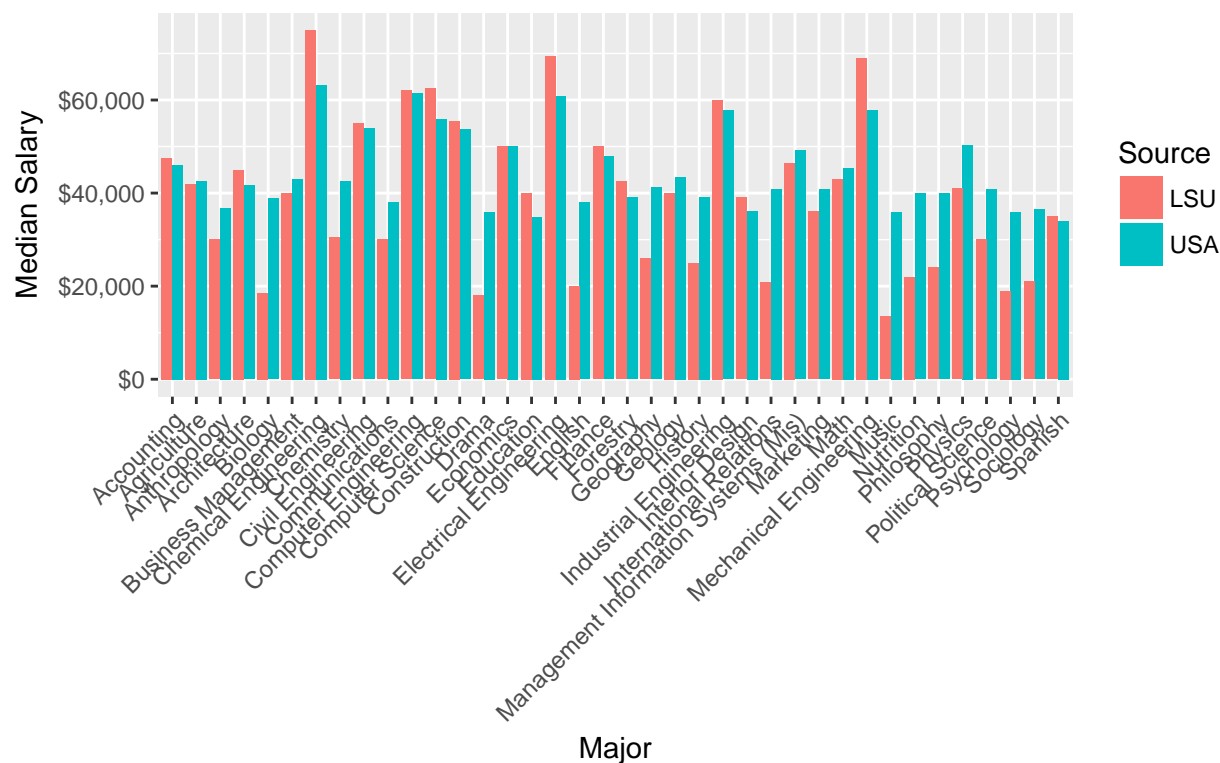
LSU	WSJ
biological sciences	biology
management	business management
theatre	drama
fine arts - art history	art history
construction management	construction
forestry - forest management	forestry
information systems and decision sciences	management information systems (mis)

LSU	WSJ
mathematics	math
nutrition and food sciences	nutrition
international studies	international relations

Also :

- agricultural & extension education, agricultural education- grades 6 - 12, agriculture and extension education, dual certification general/special education: grades 1-5, early childhood education: pk-3 teacher certification, education, educational leadership, educational leadership & research, elementary education grades 1-5, elementary grades education, gifted education, human resource education, music education, secondary education grades 6-12, special education were changed to **education**
- agricultural business, agricultural economics were changed to **agriculture**
- mass communication, mass communication & public affairs were changed to **mass communication**

Median Starting Salaries by Major

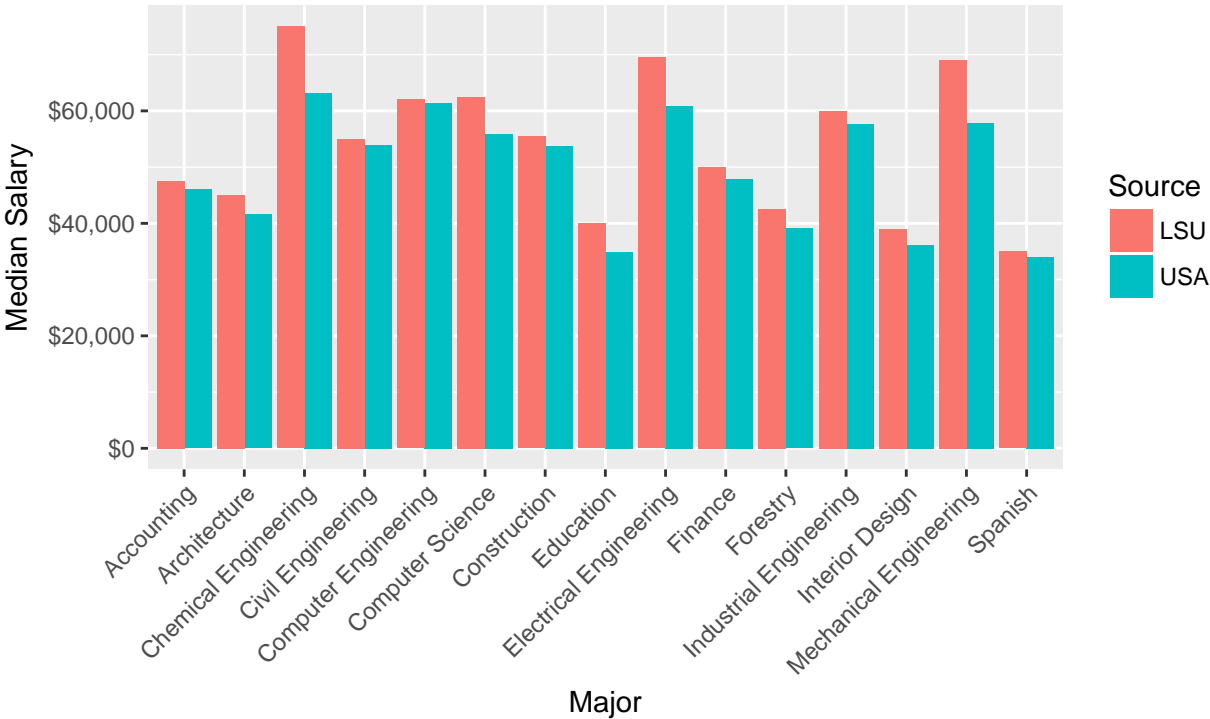


Source: WSJ

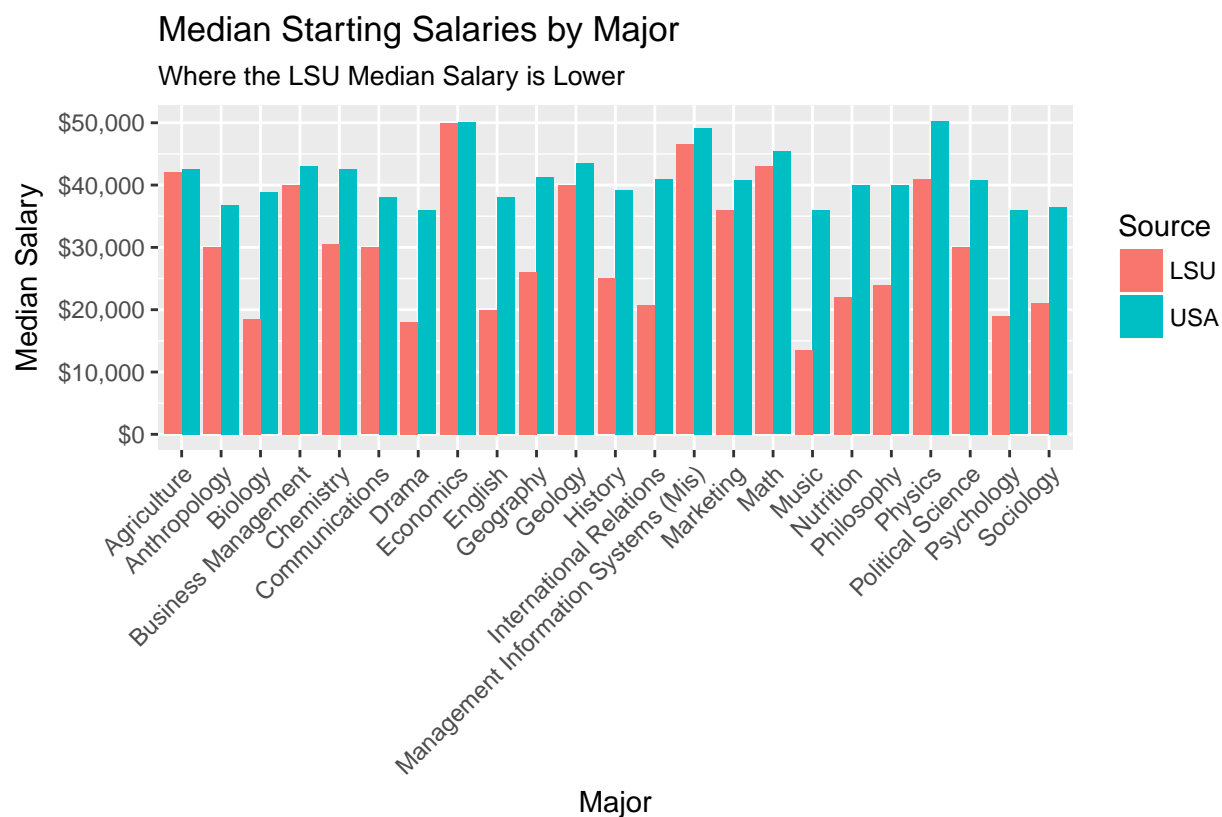
There are 38 majors listed in this graph, so it might be hard to tell which is which. We've broken it down into two graphs instead.

Median Starting Salaries by Major

Where the LSU Median Salary is Higher



Source: WSJ



As you can see, there are 15 LSU majors that pay equal to or higher than the national median and 23 LSU majors that pay less than the national median.

Some majors have a wider range of salaries than others, so we have included box-and-whisker plots at the end of this report for each major.

Conclusion

Salary Box-and-Whisker Plots

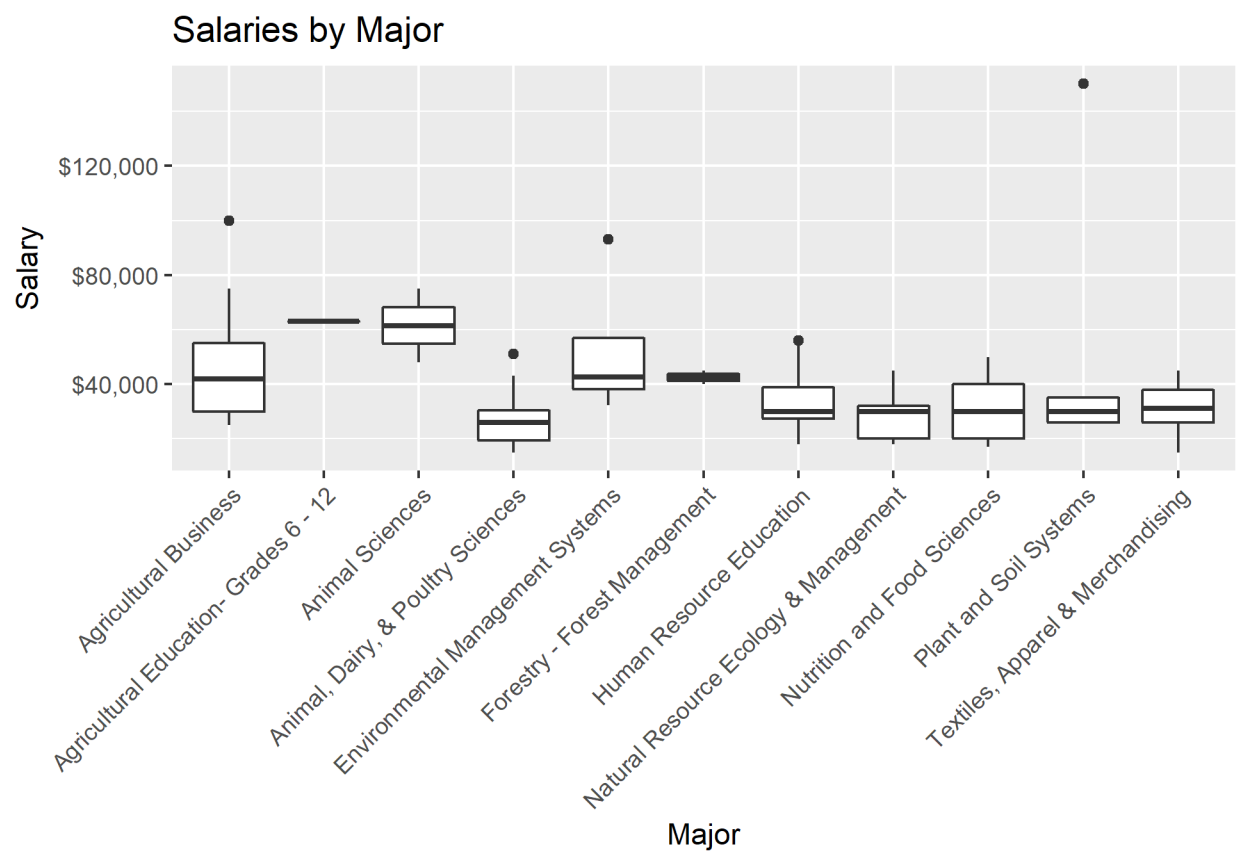


Figure 1: College of Agriculture

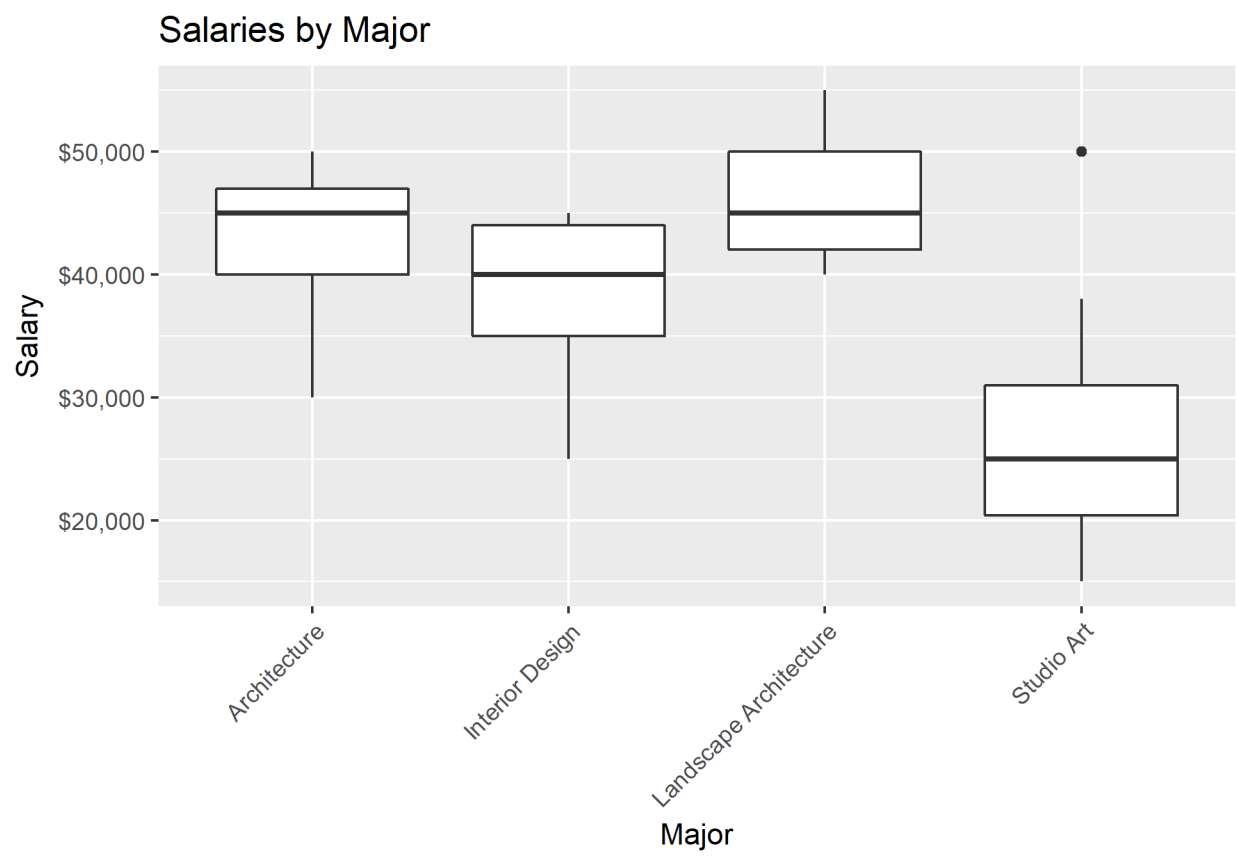


Figure 2: College of Art & Design

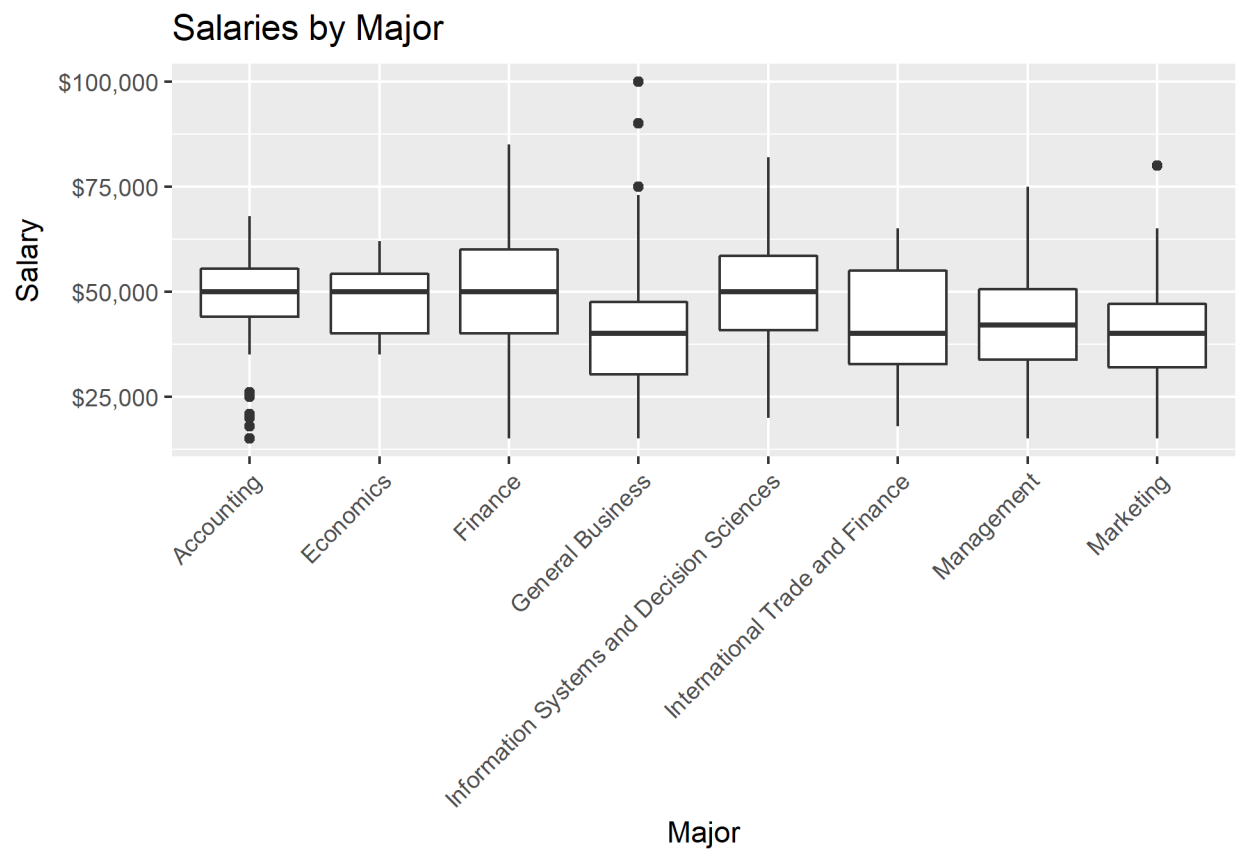


Figure 3: College of Business

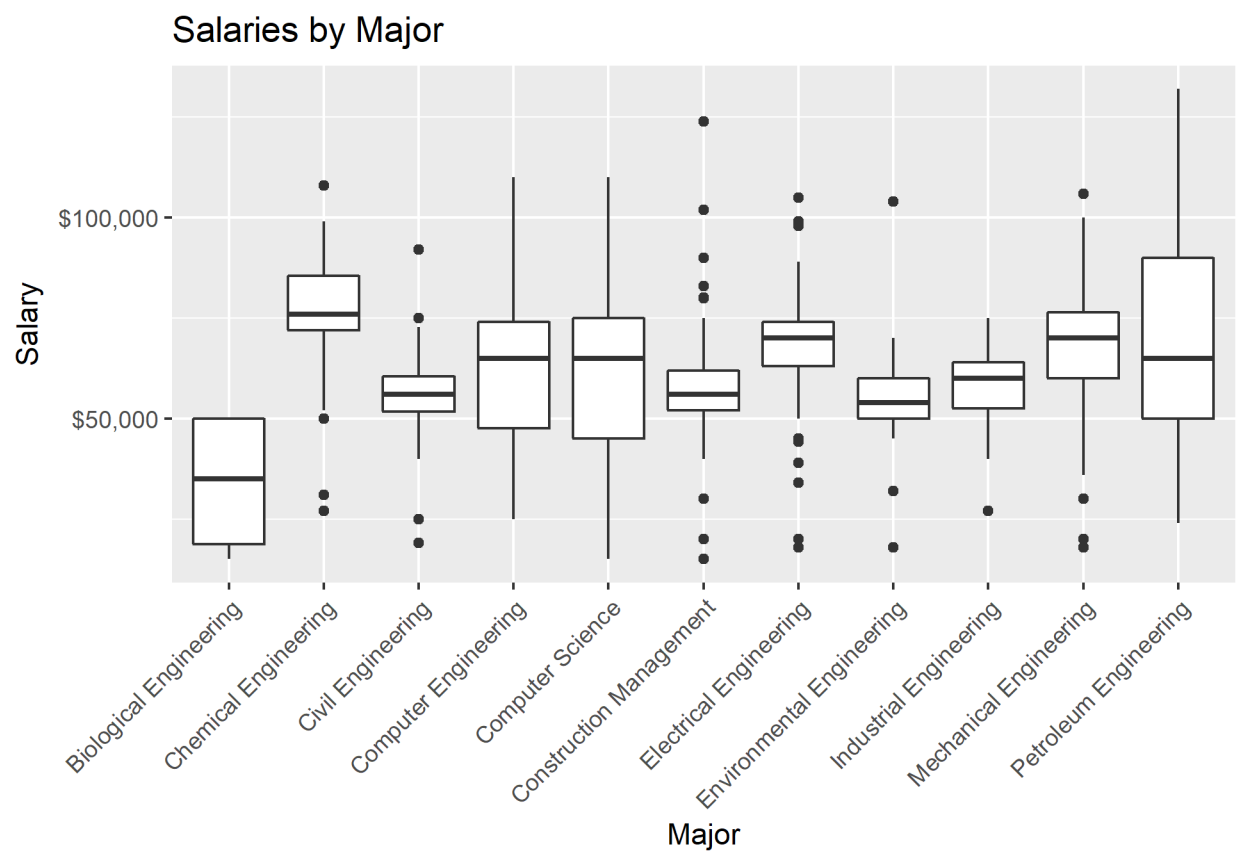


Figure 4: College of Engineering

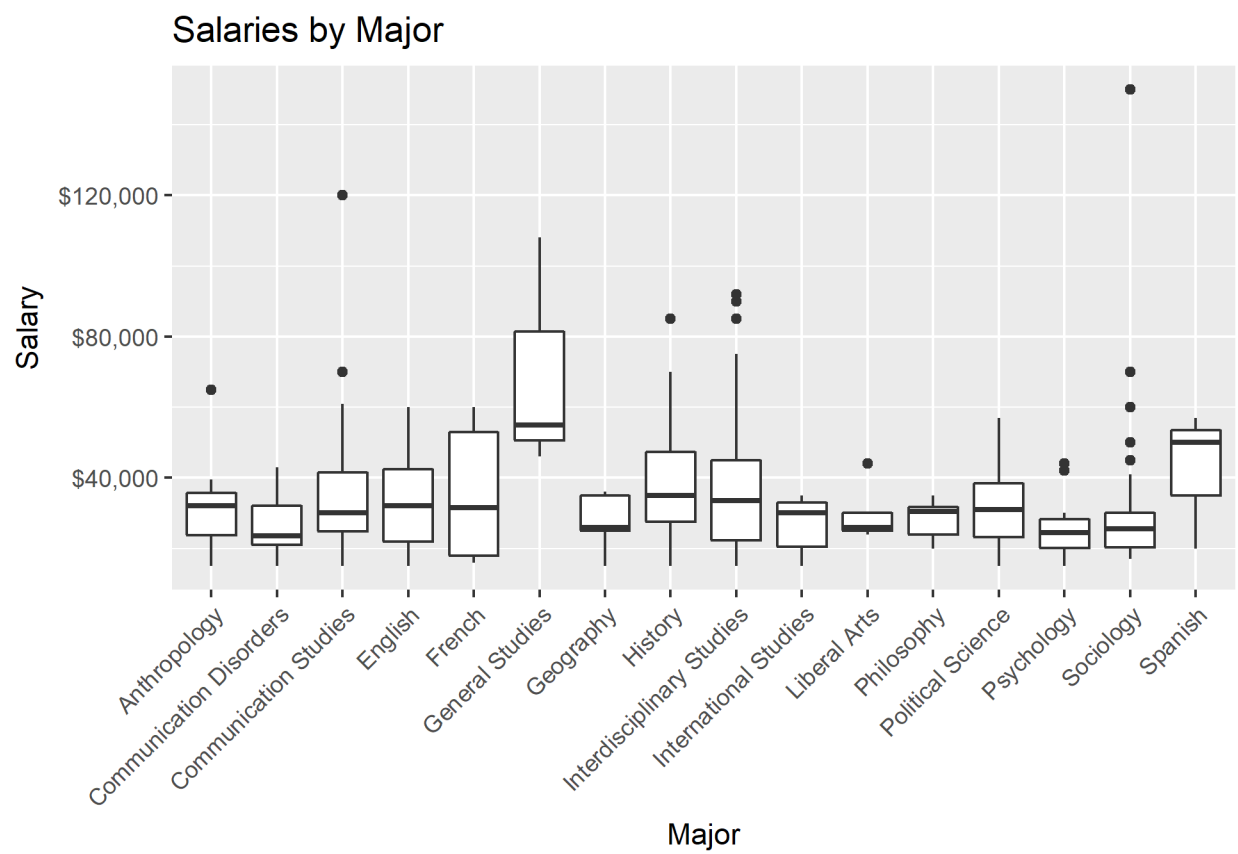


Figure 5: College of Humanities & Social Sciences

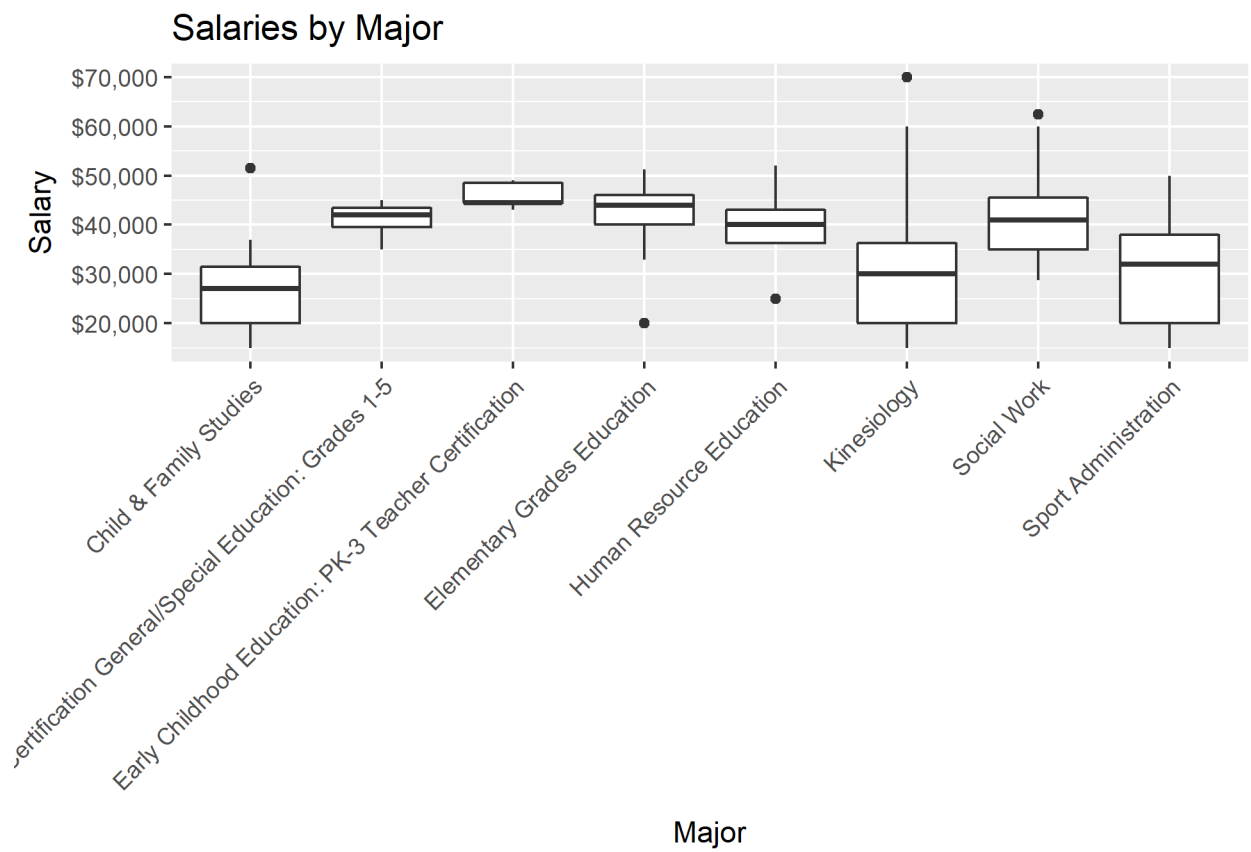


Figure 6: College of Human Sciences & Education

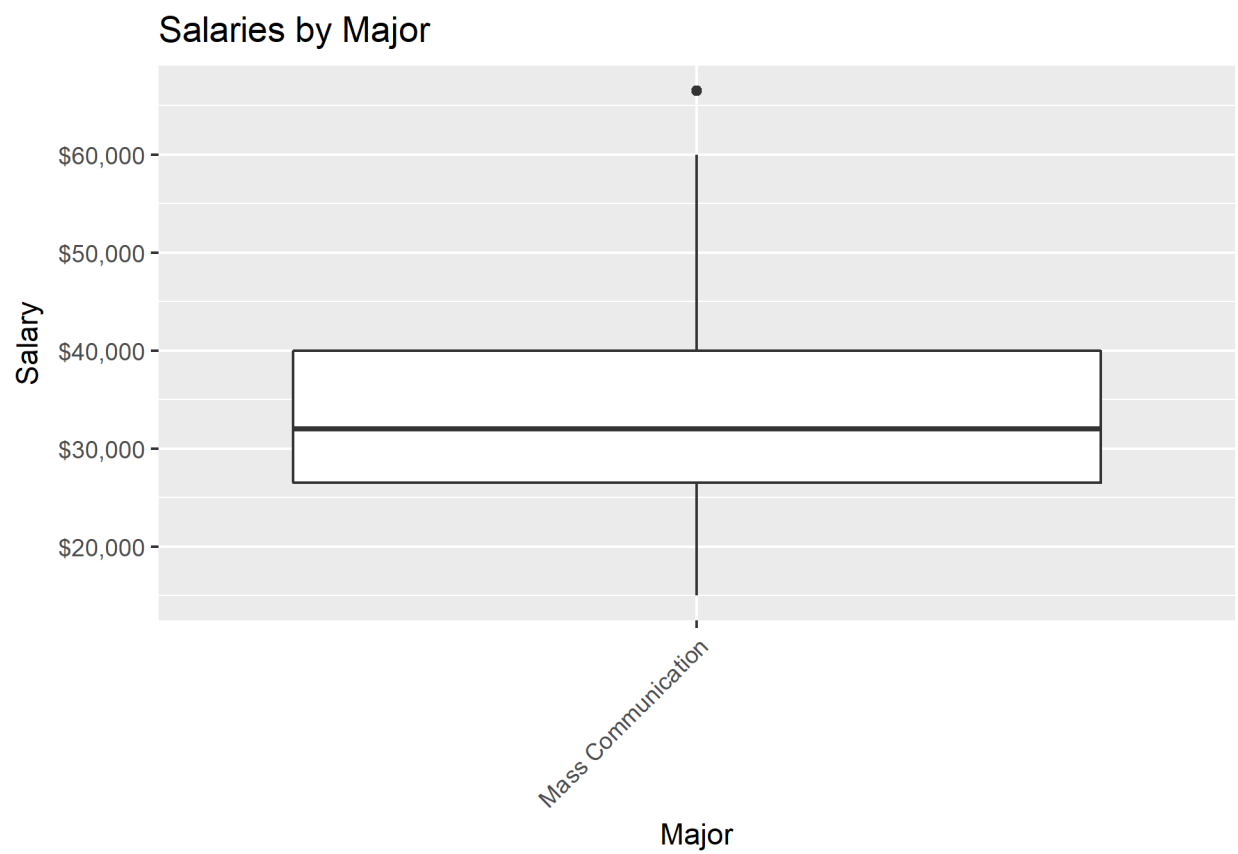


Figure 7: College of Mass Communication

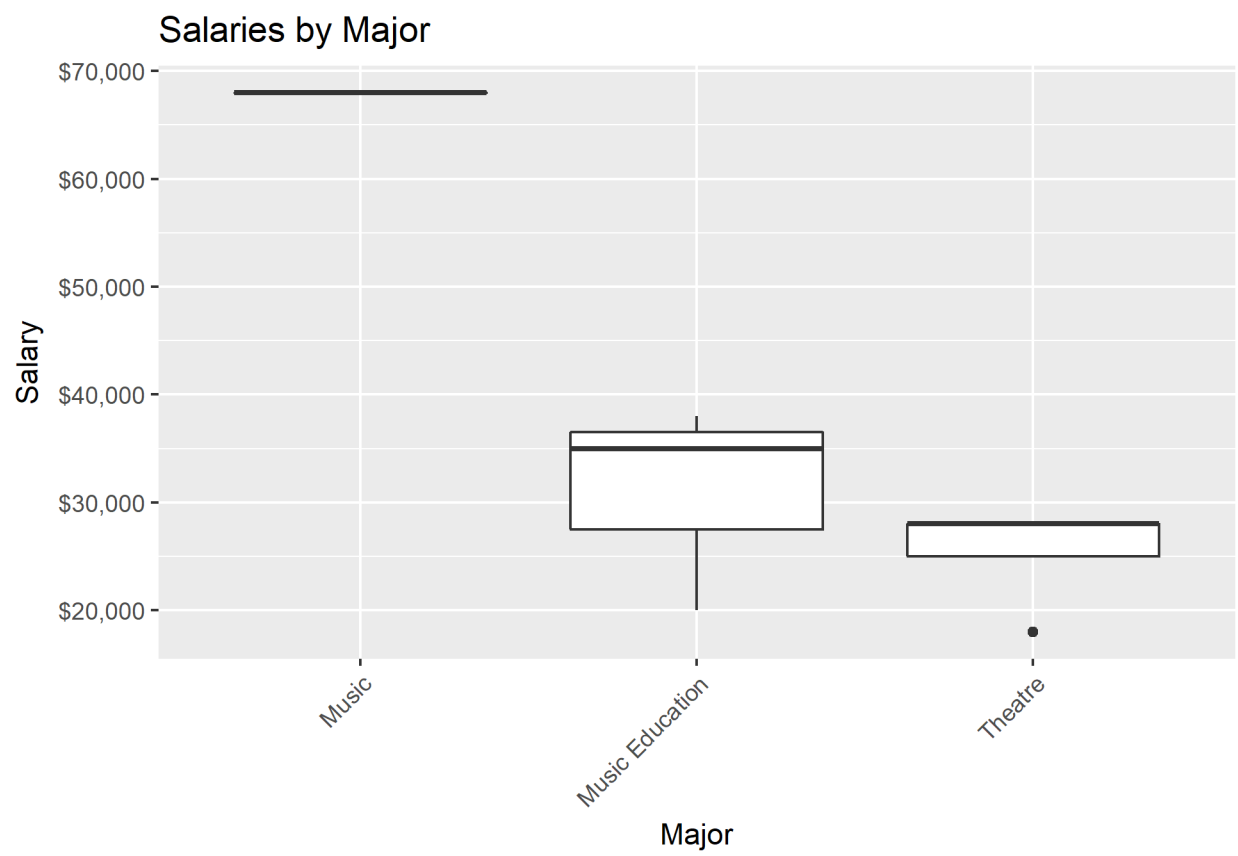


Figure 8: College of Music & Dramatic Arts

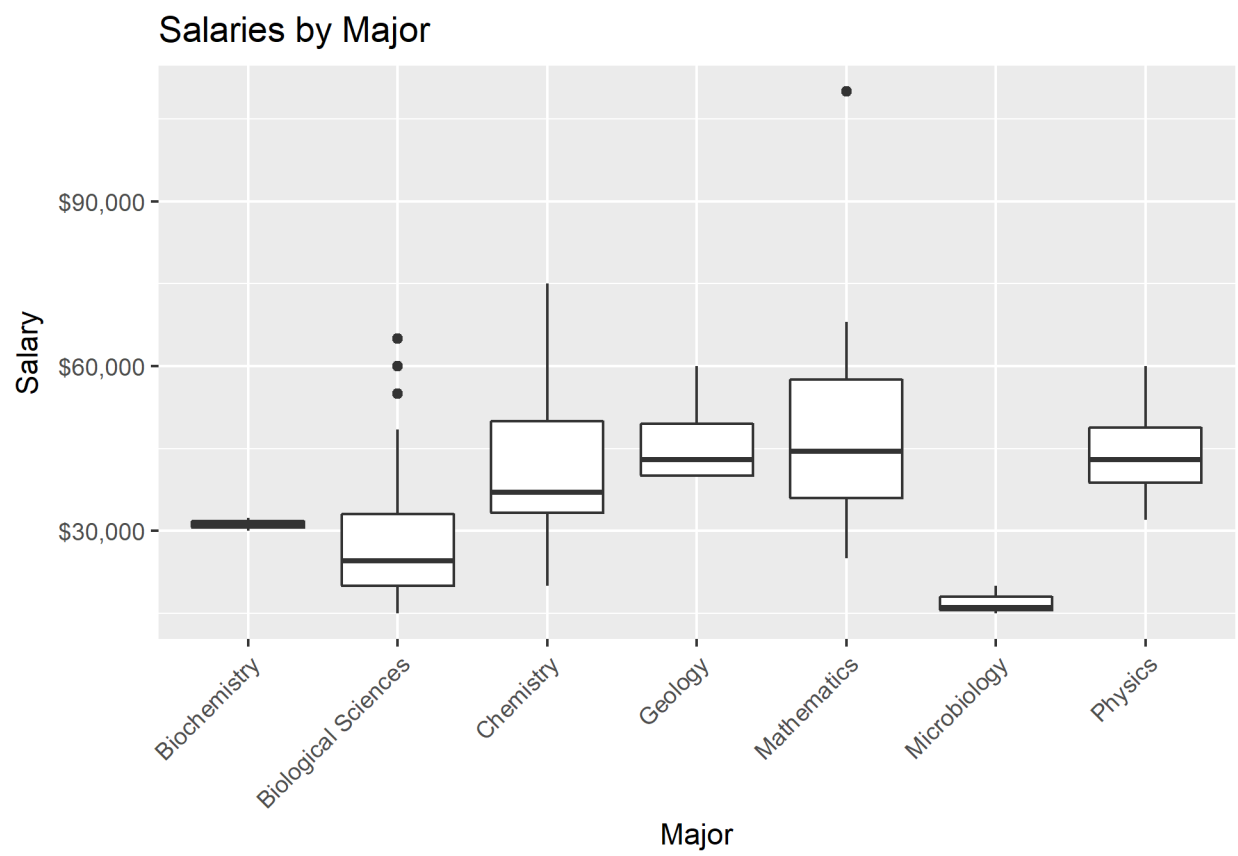


Figure 9: College of Science