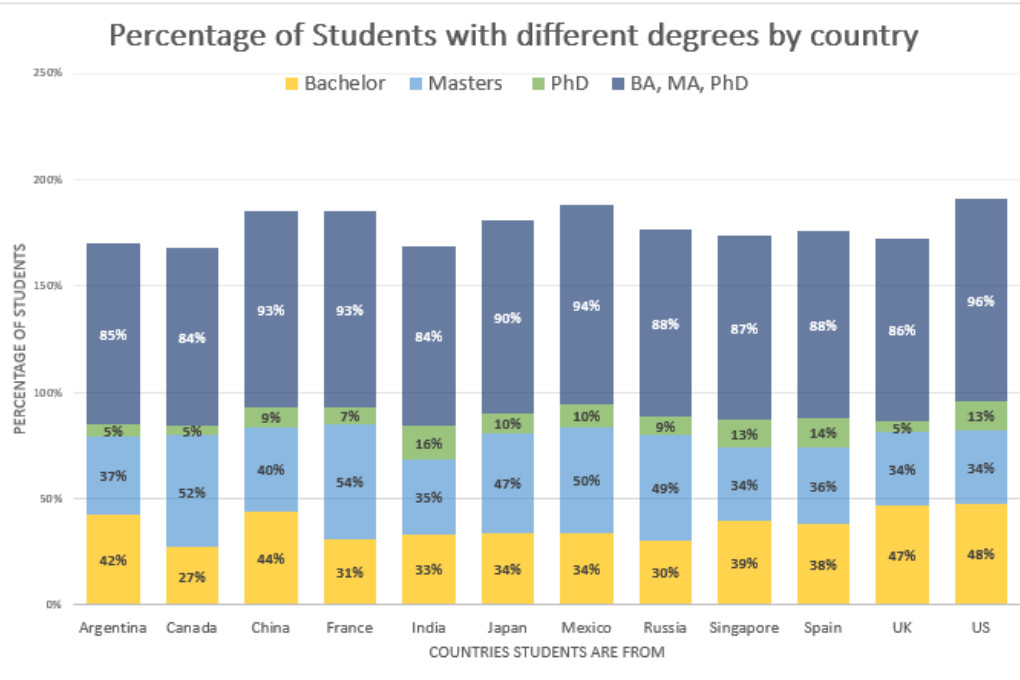


Survey Project
Julian Ketels/ Data Foundations

Questions

1. What nationality do the most qualified students hold?
2. Is there a difference in the amount of time students spend studying learning materials compared to the time spent applying what they have learned?
3. Did unemployed students study more on average than employed students?
4. Which are the most common occupations among the employed Nanodegree students?

1. What nationality do the most qualified students hold?

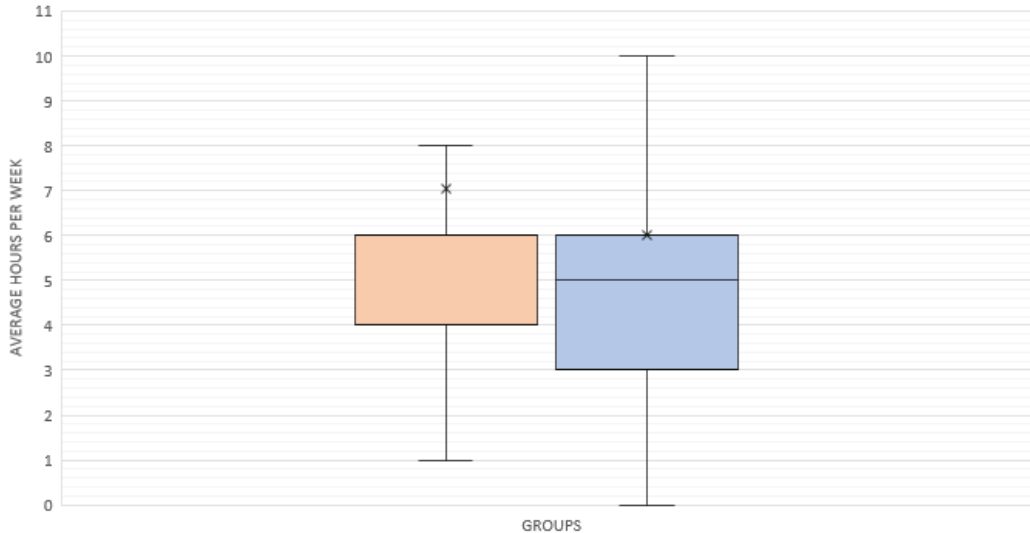


As can be seen in this table, the percentage of Udacity students that have any kind of university experience is the highest among North Americans (96%). In contrast to that, the highest percentage of PhD holders can be measured among the Indian Udacity students surveyed. 16% of them hold PhDs, followed by Spanish students with 14%.

2. Time spent on different learning activities

Comparison of average time spent on different learning activities

- Average number of hours spent per week consuming learning materials
- Average number of hours spent per week applying what they learned

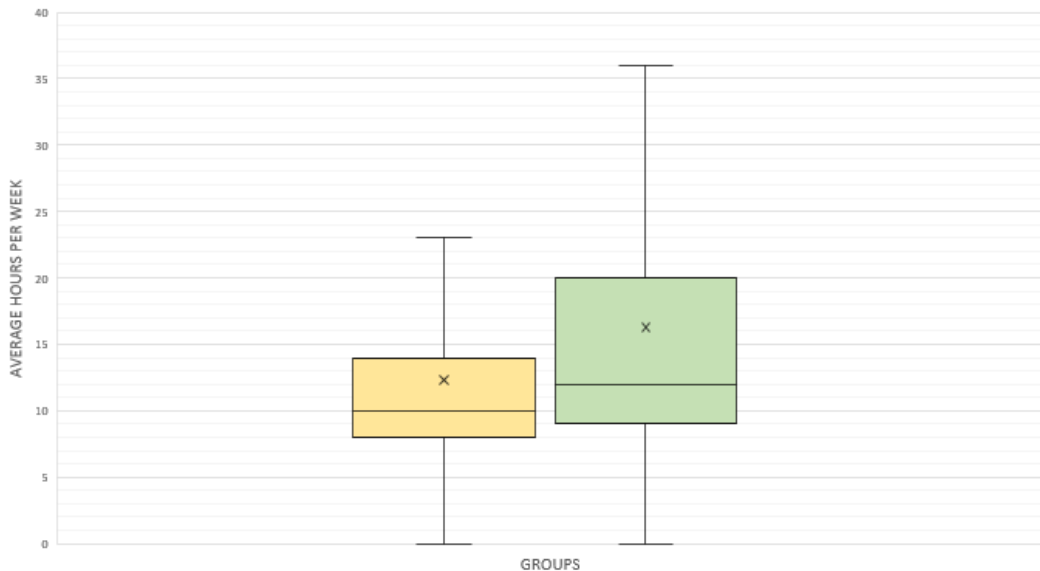


The students questioned on average spent more time consuming learning materials (mean of 7 hours) than applying what they learned (mean of 6 hours). The median supports these findings, while the mode, the exact time most students spent on average per week, is the same for both categories (6 hours). The range (with and without outliers) and the interquartile range of the average hours spent applying what was learned is significantly larger than that of the other category, which means the values are more spread out. The standard deviation is deceiving in this matter, since it is almost the same for both (6.6/6.4 hours). This is caused by the outliers which reach up to 80 and 100 hours respectively and are not shown in the diagram.

3. Did unemployed students study more?

Average hours students spent studying for Nanodegree

Employed students Unemployed students

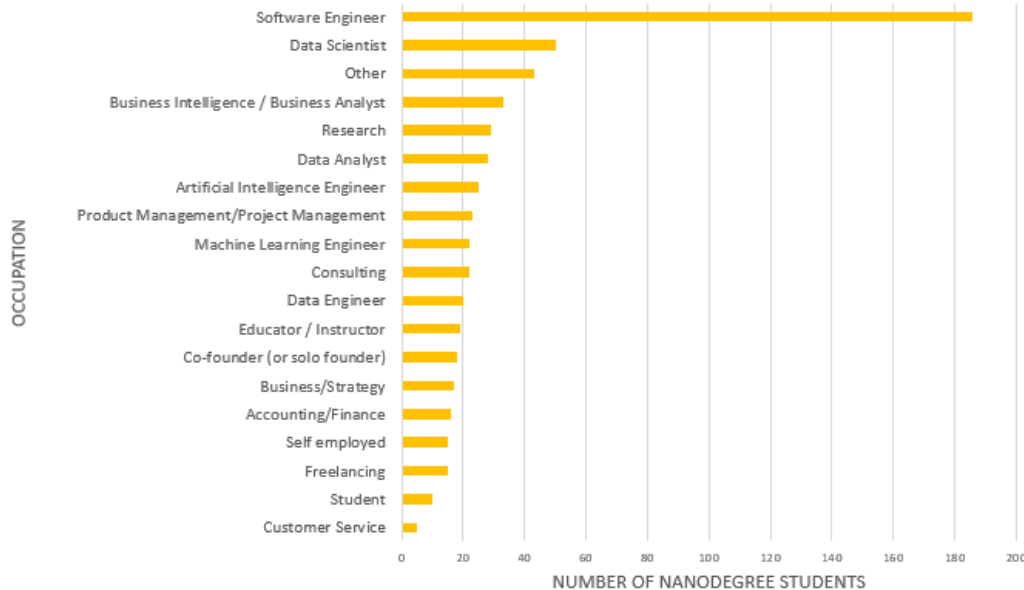


As can be seen in this box plot, the range of average hours spent studying is much greater among the unemployed students.* Those employed spent less time studying on average as was to be expected, since an employed person likely to have less time to do so. We can also see that the top 25% of unemployed students spent more than 20 hours studying each week.*

*not including outliers

4. The most common occupations among students

Comparison of occupations students have



This bar chart shows the most common occupations among students. The least common have been excluded (those that make up under 1%). As we can see, the most common occupation was „Software Engineer“, followed by „Data Scientist.“ Interestingly, from the 753 students that took the survey, 133 said they were „unemployed.“ This begs the question whether many students of that group might actually be university students that misunderstood the questionnaire, since only 10 questionees (2%) called themselves students.