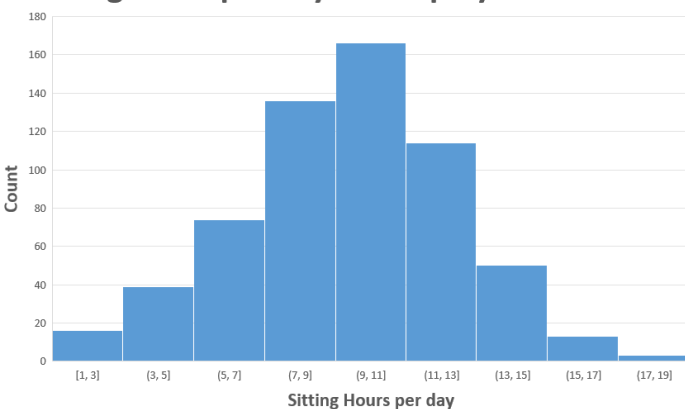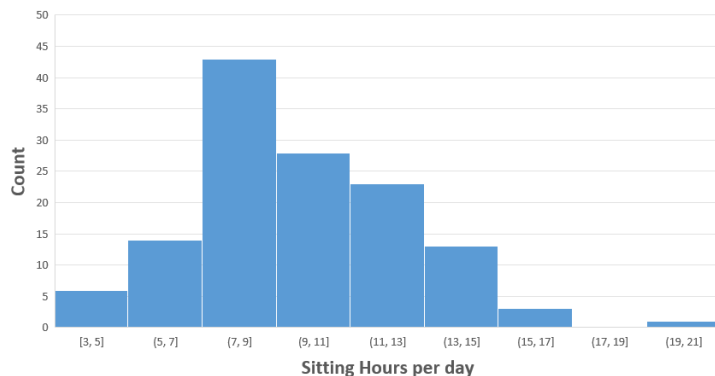# Analyse Survey Data

Does the hours spent sitting per day differ by employed and unemployed students?

Sitting hours per day for employed students
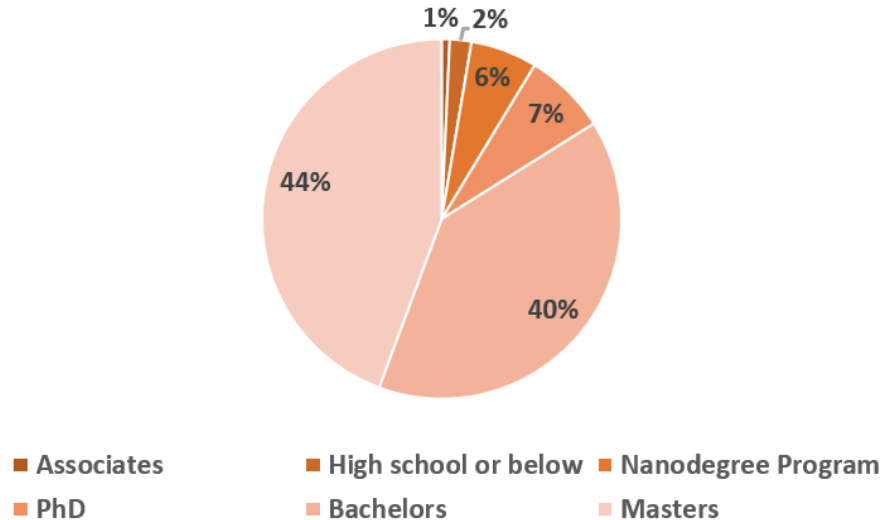

Sitting hours per day for unemployed students

Here are histograms for employed vs unemployed students.

The first distribution appears to be a normal distribution. Therefore, the mean, median and mode are approximately equal. The second distribution appears to be right-skewed. Therefore, the median of 10 > mean of 9.88 > mode of 8. The mean for unemployed students of 9.88 hours is bigger than the mean for employed students of 9.59 hours. Therefore, unemployed students appear to have a little difference in average sitting hours. However, the standard deviation for unemployed students is 2.85 hours and the range is 17, while for employed students the standard deviation is 2.99 hours and the range is 17. Therefore, the two standard deviations are close to the same, while the two ranges are exactly the same.

This data is from Survey Respondents and is not from the entire Udacity Student population. Outliers have been removed.

What is the most level of education that have the highest number of hours spent on projects per week?

Time to complete a project by education level

1% 2%
6%
7%
44%
40%

- Associates
- High school or below
- Nanodegree Program
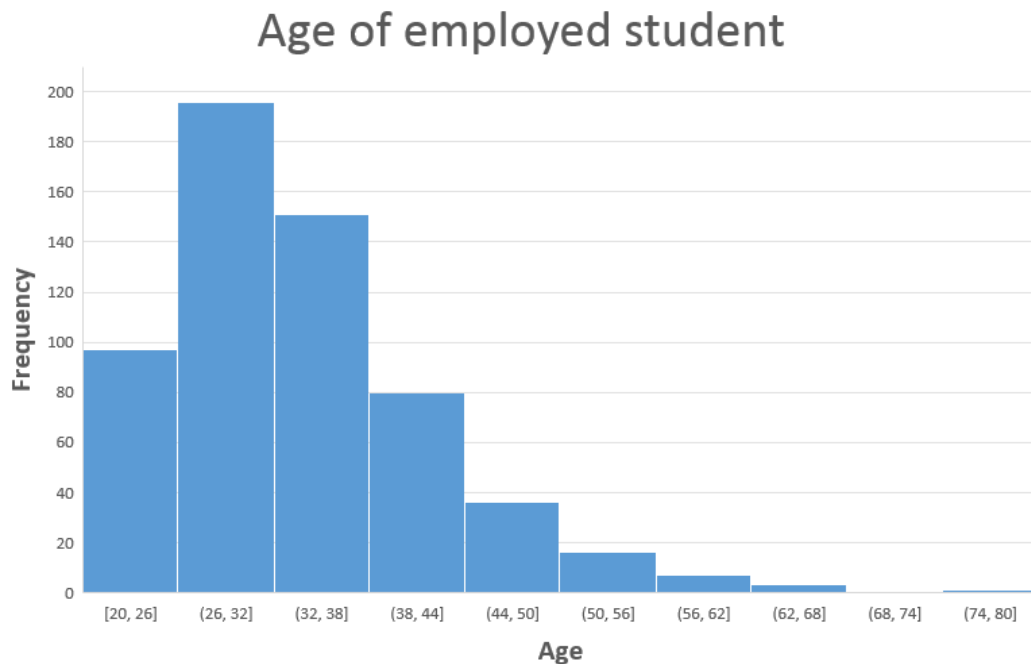- PhD
- Bachelors
- Masters

The pie chart illustrates the time to complete the project by education level.

At first glance it is clear that the main education level that have the highest number of hours spent on projects per week was Masters by 44%. Two-fifths of hours spent on projects per week are for survey respondents Who said that they have a bachelors, while 7% for PhD, 6% for Nanodegree Program, 2% for High school or below. Associates have the lowest number of hours spent on projects per week 1%.

Outliers have been removed.

Which age group had the largest number of student that are employed?
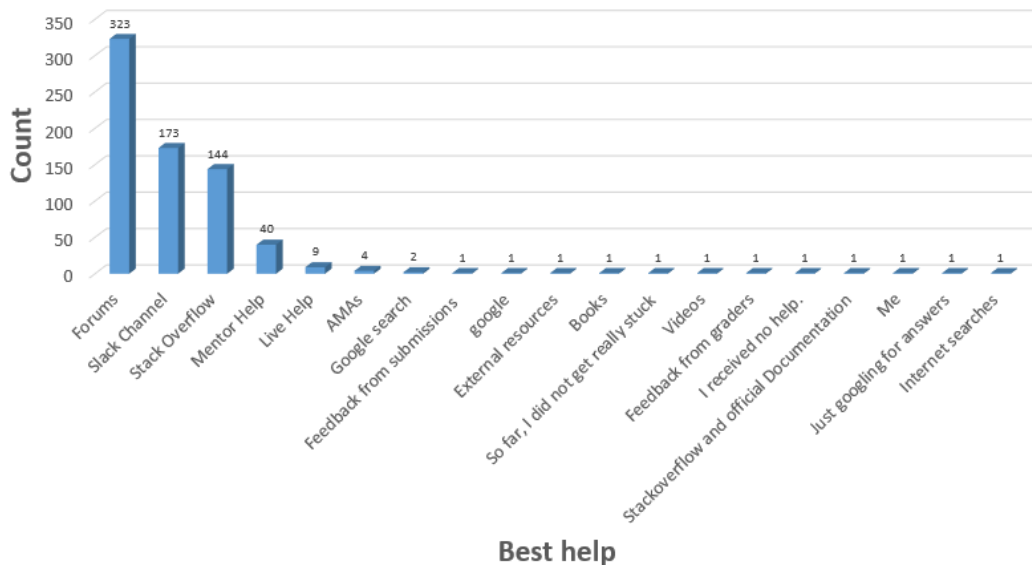

Age of employed student

Here is a histogram for age of employed students.

The distribution appears to be Right skewed. Therefore, the mean > median > mode. With Outliers been removed, the average age of employed students is 34, while the median is 33 and the mode 29. It appears that younger employed students are more likely to study. With standard deviation of 8.21 the values are spread further away from the mean.

This data is from Survey Respondents and is not from the entire Udacity Student population. Outliers have been removed.

What is the most common help students have got during their nanodegree?

Best help for students during their Nanodegree

This Bar chart shows survey respondent answers for the question "What was most helpful when you got stuck in the Nanodegree program(s)?".

Almost half of survey respondents (323) have answered that Forums were the best help when they were stuck with the nanodegree program, while 173 said that it was Slack Channel. Almost a fifth (144) respond with Stack Overflow, 40 with Mentor Help, 9 with Live help. On the other hand AMAs and Google Search was the answer of 4 and 2 students respectively. For each of the rest answers only one student said that it was helpful to him. Overall, it is clear that the forums were number one amongst the majority of students.

Outliers have been removed.