

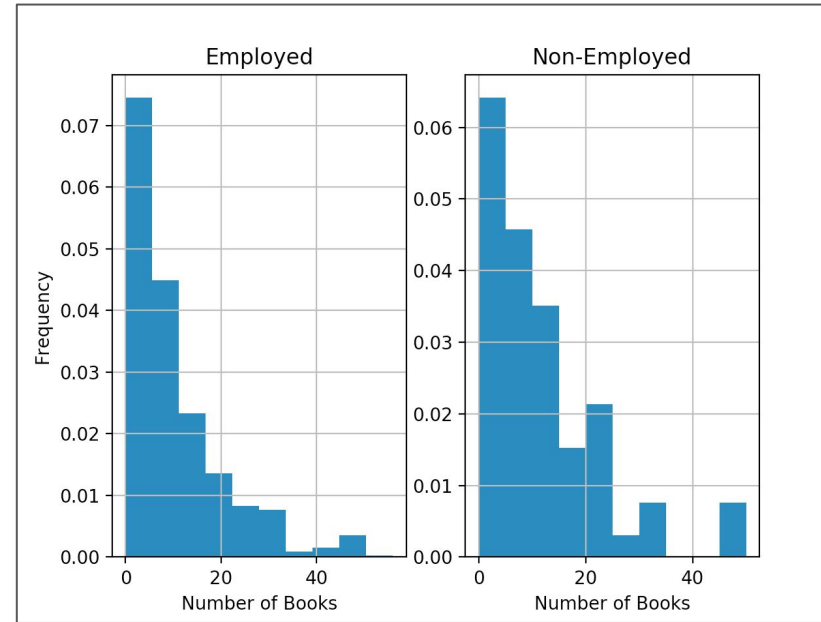
# Survey Data Analysis

P2 Data Foundations Nanodegree  
Seif

# Example: Does the Number of Books read vary based on Employment?

## Number of Books Read

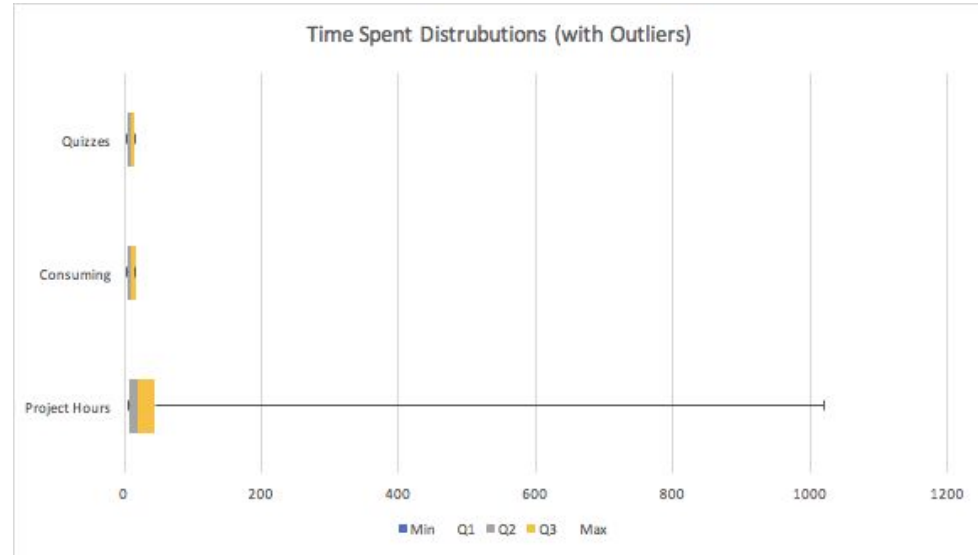
	Employed	Unemployed
<b>Minimum</b>	0	0
<b>Q1</b>	4	4
<b>Q2</b>	8	6
<b>Q3</b>	15	15
<b>Maximum</b>	600	100



Comparing the employed to unemployed, there does not appear to be much of a difference between the number of books they read. If we didn't pay attention to the extreme readers (those that read a ton) in each group, they are very similar in distribution and summary statistics.

# How many hours on average do students spend on projects?

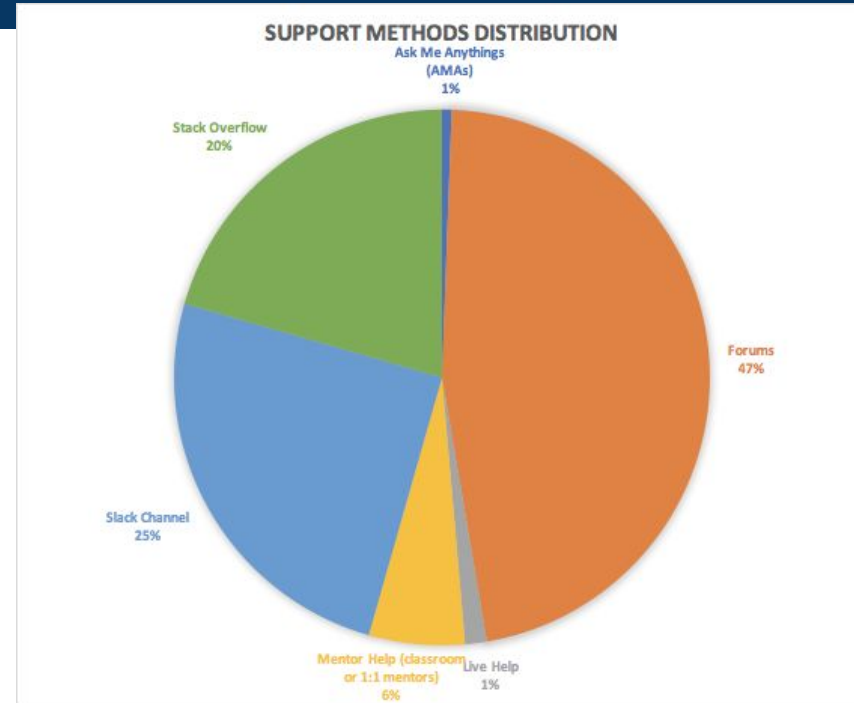
	Project Hours	Consuming	Quizzes
Min	1	1	1
Q1	7	4	3
Q2	12	5	5
Q3	25	6	6
Max	1000	6	6



By calculating the 5-Numbers Summary for time students spend on Projects/Consuming Materials and applying, we see the following Box Plot. It's also evident that there are some outliers in the Project Hours responses.

# What is the most common support method used by students?

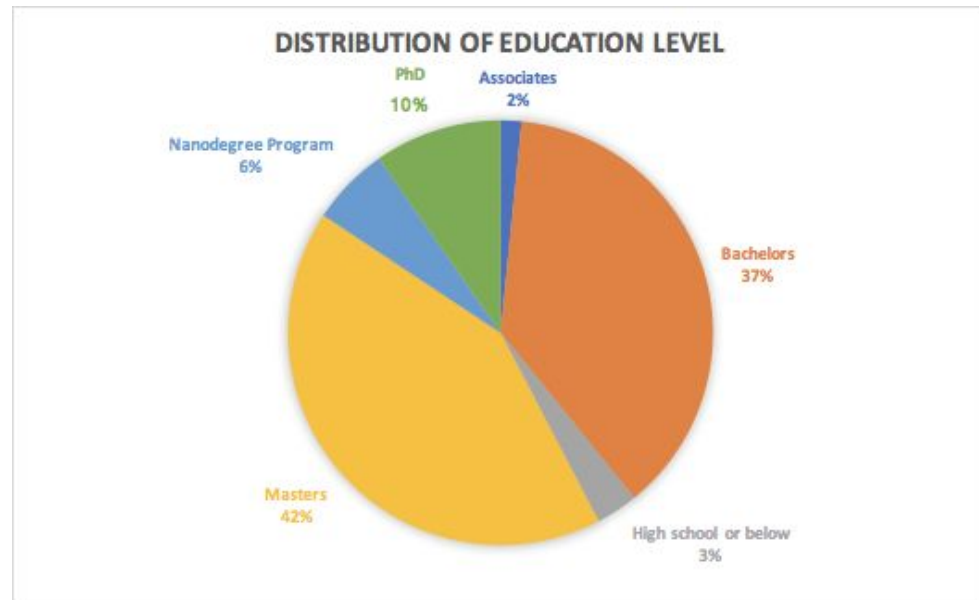
Support Method	Count
Ask Me Anythings (AMAs)	4
Forums	323
Live Help	9
Mentor Help (classroom or 1:1 mentors)	40
Slack Channel	173
Stack Overflow	142
Grand Total	691



The majority of students prefer using Forums. There is also a number of students who didn't answer this question or left it blank.

# What is the highest level of education students who take Nanodegrees reached?

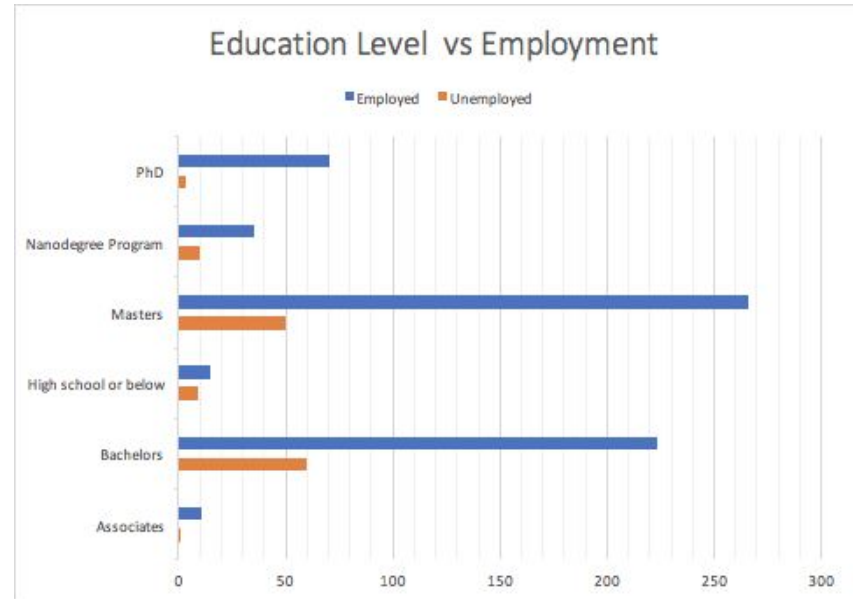
Education Level	Count
Associates	12
Bachelors	283
High school or below	24
Masters	316
Nanodegree Program	45
PhD	73
Grand Total	753



It's evident from our data that Masters holders constitute the biggest portion of students. This is interesting as from my personal experience, Masters' holders in an academic setting usually seek more practical hands-on experience which is exactly what Udacity offers. Also, 6% of the students surveyed consider a previous ND an "Education Level".

# How does education level affect employment?

Education Level	Unemployed	Employed	Grand Total
Associates	1	11	12
Bachelors	60	223	283
High school or below	9	15	24
Masters	50	266	316
Nanodegree Program	10	35	45
PhD	3	70	73
Grand Total	133	620	753



Across all education levels, the number of employed individuals is higher than those unemployed. The percentage of PhD holders who are unemployed is significantly lower compared to the rest. An interesting observation is the number of High School Students who are employed.