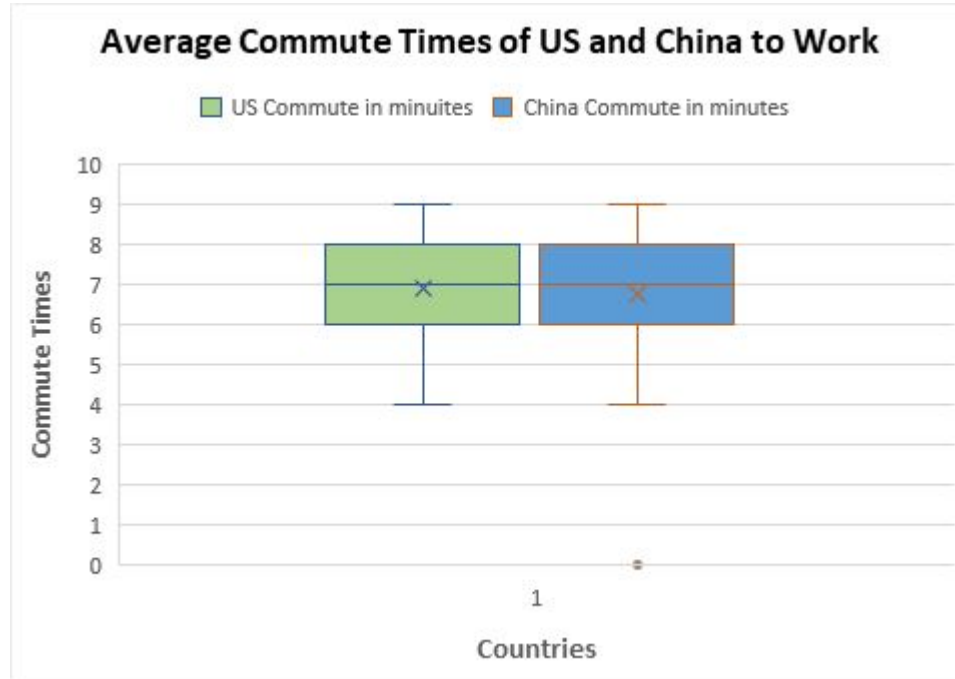# Jamil Abdulai
# Project 2
Analyze Survey Data
July 22,2022

NB: This data is from Survey Respondents and not from the entire Udacity Students population.

Commute Times of U.S and China Students

Average Commute Times of US and China to Work

US Commute in minuites China Commute in minutes
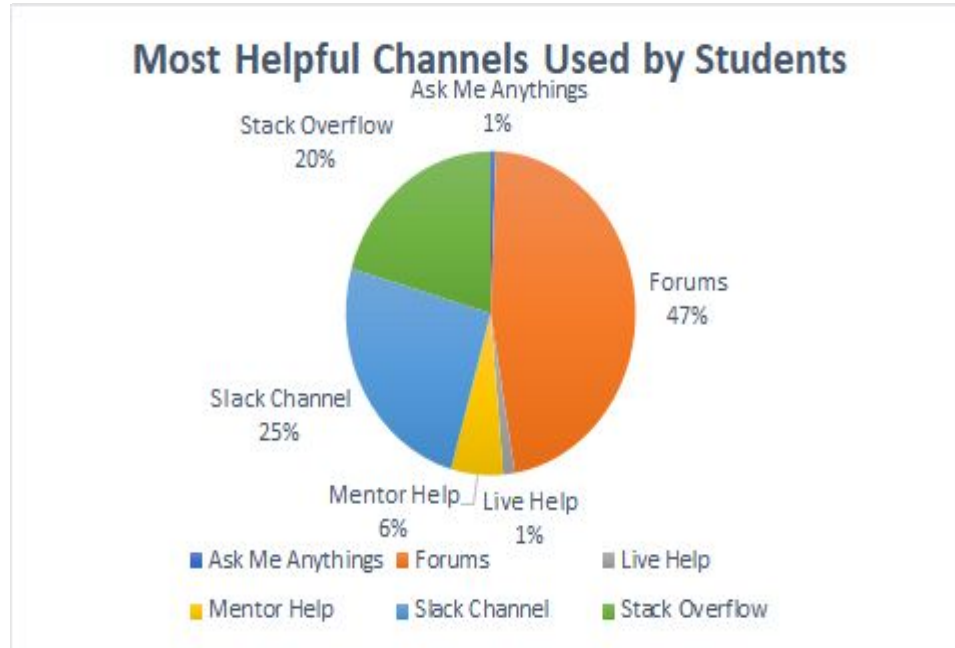
Commute Times

Countries

This box plot highlighted interesting analysis. Both plots shows a normal distribution. The minimum commute times for both U.S and China are both 4 minutes. The lower quartile, median, upper quartile and and maximum values are all similar with values of 6, 7, 8, and 9 minutes respectively. The mean commute times for US is 6.90 while China is 6.75 hence from this value we can assume the average commute times for both countries is 6.8 minutes. Also, the standard deviation and range for U.S and China are 0.91 to 1.41 and 5 to 9 respectively hence U.S has lower spread from the mean than China with respect to standard deviation.

Udacity Students Locations Across The World.

Students Residence
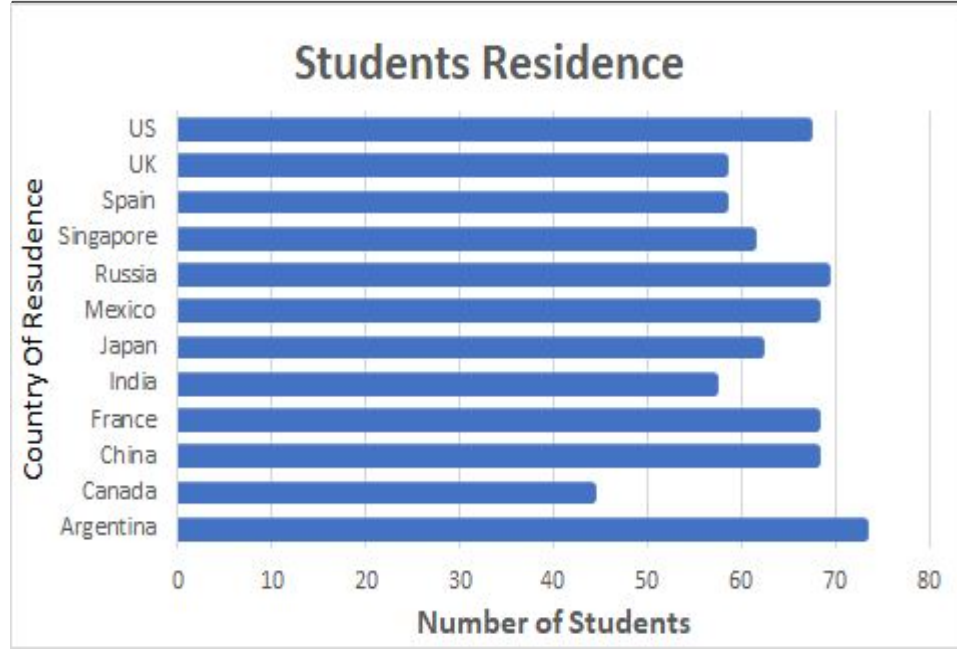
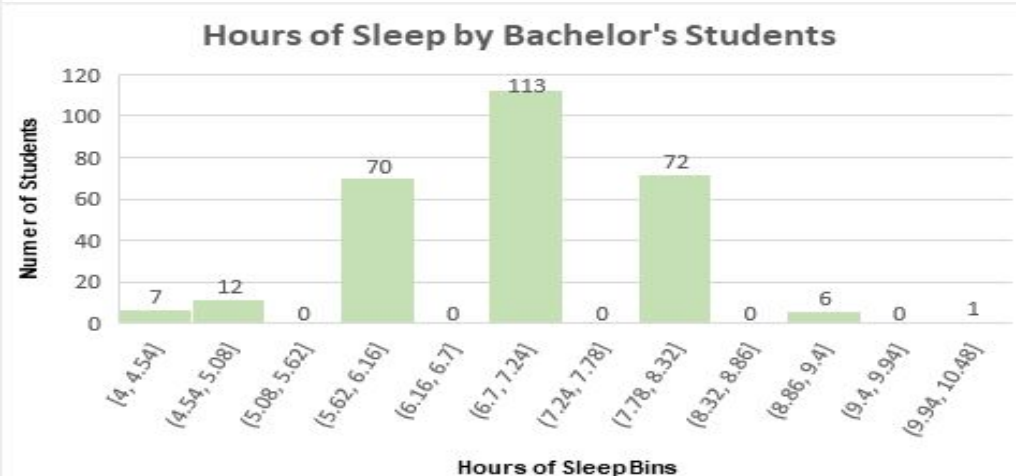Udacity is a well respected learning platform and this analysis reaffirms it. Its' amazing the most heavily incorporated country within the program, Argentina isn't the HQ location of the company. Russia is the second followed by China, France, and Mexico all at a tie then the U.S where Udacity is actually resided. Canada, India, U.K and Spain are the countries with the lowest Udacity Student rates.

The Most Helpful Channel Used by Udacity Students

Most Helpful Channels Used by Students

Ask Me Anythings 1%
Stack Overflow 20%
Forums 47%
Slack Channel 25%
Mentor Help 6%
Live Help 1%

- Ask Me Anythings
- Forums
- Live Help
- Mentor Help
- Slack Channel
- Stack Overflow

This analysis pinpoints the most powerful channels utilized by students to aide in studies. Forum channels recorded 47% of the total followed by slack channels at 25%, stack overflow had 20%, mentor help accomplished 6%, and lastly Live Help and ask me anything all recording 1% of the total counts. This infers that students feel more comfortable utilizing the forum platforms over the rest hence more effort ought to be engaged to make it more user friendly to remove roadblocks during usage.

Hours of Sleep Consumed by Master's and Bachelor's Students.

Hours of Sleep by Master's Students

Numer of Students

140, 120, 100, 80, 60, 40, 20, 0

1, 0, 8, 0, 67, 0, 132, 0, 69, 0, 0, 2, 0, 2

[4, 4.45], [4.45, 4.9], [4.9, 5.35], [5.35, 5.8], [5.8, 6.25], [6.25, 6.7], [6.7, 7.15], [7.15, 7.6], [7.6, 8.05], [8.05, 8.5], [8.5, 8.95], [8.95, 9.4], [9.4, 9.85], [9.85, 10.3]

Hours of Sleep Bins

Hours of Sleep by Bachelor's Students

Numer of Students

120, 100, 80, 60, 40, 20, 0

7, 12, 0, 70, 0, 113, 0, 72, 0, 6, 0, 1

[4, 4.54], [4.54, 5.08], [5.08, 5.62], [5.62, 6.16], [6.16, 6.7], [6.7, 7.24], [7.24, 7.78], [7.78, 8.32], [8.32, 8.86], [8.86, 9.4], [9.4, 9.94], [9.94, 10.48]

Hours of Sleep Bins

This analysis depicts the hours of sleep. The bell-shaped curved graph of the Master's shows 132 students get 6.7-7.15 hours of sleep followed by 7.6-8.05 hours for 69 students and 67 getting 5.8-6.25 hours of sleep. The Bachelor's assumes similar dimensions. 113 students fell had 6.7-7.74 hours of sleep, 72 students had 7.78-8.32 hours of sleep and 70 students had 5.62-6.16 hours. Both graphs had a couple of students getting less or more hours than the average. The mean, median and mode for both categories are approximately 7 meaning the average and most occurring hours people sleep is 7. The STD for Master's students to Bachelor's is 0.85 to 1.00 from the mean hence the Bachelor's have a wider spread than the Master's students. Also, both categories has the same range as 6.