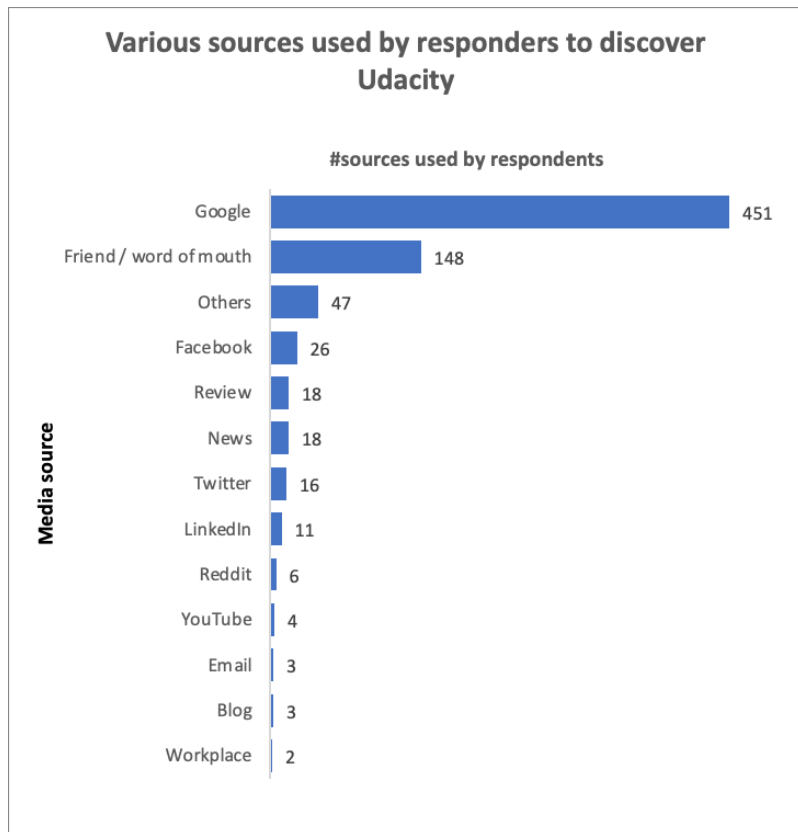


Analyse Survey Data

Hengki Irawan

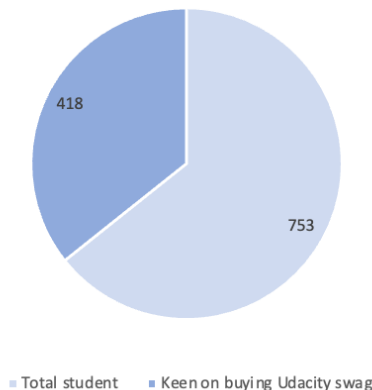
What is the most frequent method by which students become aware of Udacity?



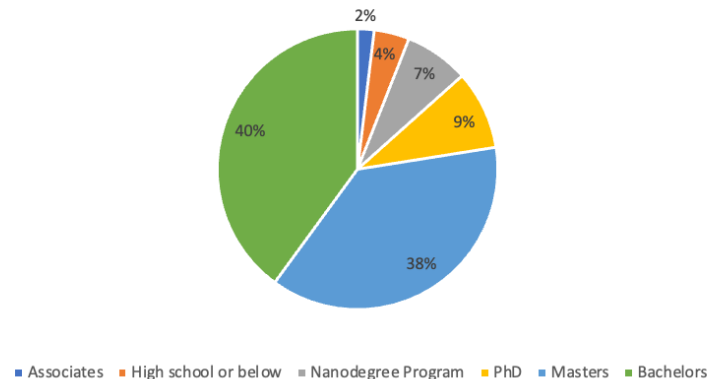
Among the ways survey takers find out about Udacity, the most popular one is through Google search, with 451 students choosing this option. Following that are recommendations from friends, acquaintances, and Facebook, while the least common methods are through blogs and the workplace.

What is the number of students interested in obtaining Udacity merchandise categorized by their level of education?

Total students want to have Udacity Merchandise

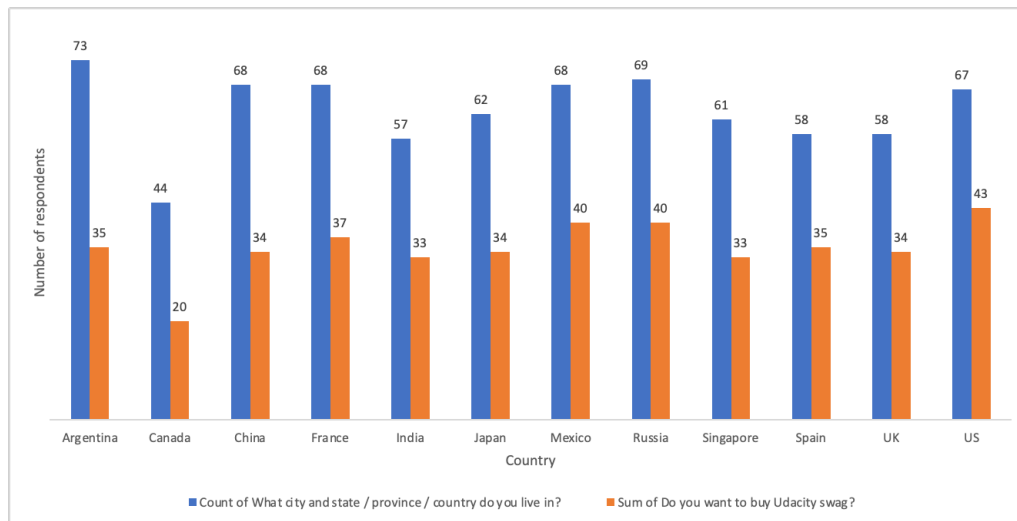


Percentage students want to have Udacity Merchandise based on Education level



Out of the total respondent population, 56% are interested in acquiring Udacity merchandise, with a significant majority of 78% being Bachelor's and Master's students.

In which country are students most likely to purchase Udacity merchandise?

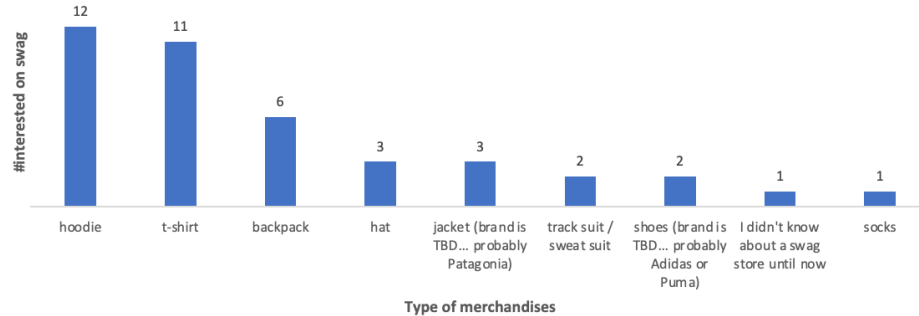


Continent	Country	cnt_student	#keen_to_purchase	ratio
Europe	Russia	69	40	0.58
	France	68	37	0.54
	UK	58	34	0.59
	Spain	58	35	0.60
Asia	China	68	34	0.50
	Japan	62	34	0.55
	Singapore	61	33	0.54
	India	57	33	0.58
North America	US	67	43	0.64
	Canada	44	20	0.45
South America	Argentina	73	35	0.48
	Mexico	68	40	0.59

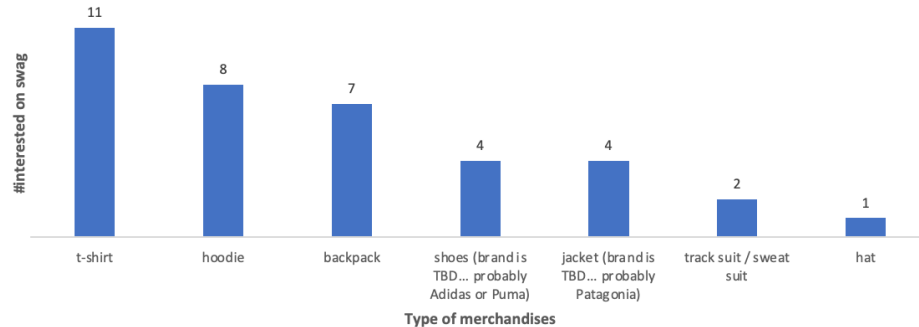
The bar chart displays the number of respondents based on their residency, with Argentina having the highest enrolment and Canada having the lowest. However, what makes this information interesting is that the total number of participants in each country does not necessarily reflect their likelihood to purchase Udacity merchandise. Despite being among the top enrolled participants in the data, students in Argentina rank second to last, after Canada, in terms of their interest in buying swag.

What is the most popular type of Udacity merchandise in the United States and Spain?

Favorite Merchandise in the US

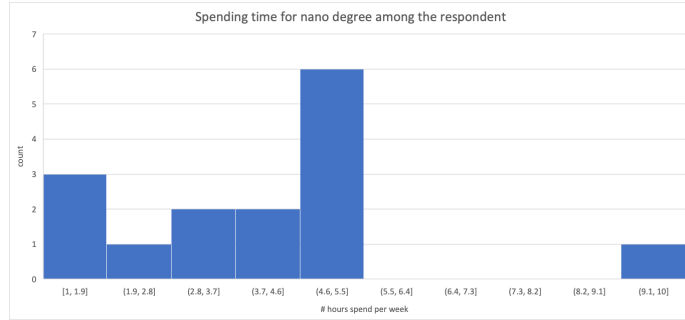


Favorite Merchandise in Spain

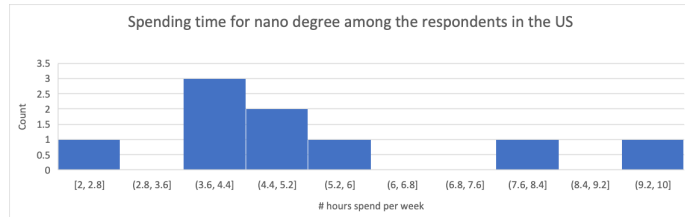


After analysing the top two ratios between Udacity's enrolled students and their inclination towards purchasing merchandise, it was found that respondents in the United States tend to favour hoodies as their top choice, while Spanish participants tend to prefer t-shirts. Both countries show a lower preference for hats and socks as Udacity merchandise options.

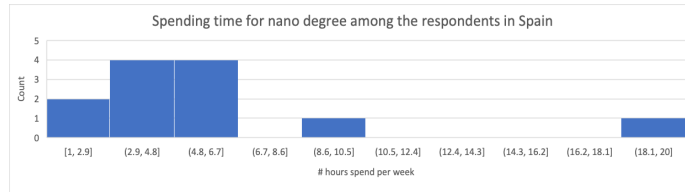
How many hours per week that respondents reported dedicating to applying what they learned from the program?



Overall	
Median	5
Mode	6
Mean	6.5
Std	6.4
Range	99



US	
Median	6
Mode	6
Mean	8.0
Std	12.9
Range	99
Max	100
Min	1



Spain	
Median	5
Mode	6
Mean	6.3
Std	5.3
Range	29
Max	30
Min	1

- For the overall dataset of respondents, there appears to be little variation or dispersion since the mean and standard deviation values are nearly identical. However, the dataset is right-skewed because the mean value is higher than the median.
- Aligned with the overall pattern, respondents from both the State and Spain also demonstrate a right-skewed distribution. In contrast to the overall dataset, the number of hours spent by respondents is more spread out from the average of learning time on the platform. Nevertheless, both countries have the minimum time to apply what they learn from the platform is 1 hours.
- Upon analysing the data from the overall dataset, as well as the specific datasets for the United States and Spain, it was found that the most common duration of applying a skills learnt from the platform was six hours.
- The range of values in the overall dataset displayed considerable variability, with the datasets for the United States and Spain contributing notably to this trend. Both datasets recorded the highest values within their respective populations. Moreover, the maximum values observed in both datasets were higher than the corresponding mean and mode values resulting in a noticeable skewness in the data.