

For this project, we decided to analyze the question “Is a hotdog a sandwich?” Specifically, we wanted to see if more than fifty percent of undergraduate students at the University of Virginia believed a hotdog is not a sandwich. In order to collect data, we sent out a survey to collect the following information: Timestamp, Sandwich, Rational, Undergraduate, Major, Year, Birthplace. We decided to conduct a random sample in hopes to get an even distribution of first, second, third, and fourth year responses. After releasing the survey, we received ninety-one responses in which we cleaned up the data and began analyzing the results.

To analyze the data, we decided to focus on the columns Sandwich, Rational, and Year. We began by using RStudio to make a bar graph displaying the distribution of students who believed a hotdog is a sandwich or not. Furthermore, we decided to split this data up across the four undergraduate years. Before doing this, though, we made sure to filter out responses so that we do not include any graduate students’ answers and removed all rows with N/A values.

After plotting the graph, we found that a majority of students believe a hotdog is not a sandwich, supporting our initial hypothesis. We found a correlation of 0.1 and are satisfied with the overall study when comparing Student Year and Sandwich status. However, while we had a sufficient number of responses, we were not able to use a majority of columns. Specifically, we could not use the Rational column because this was an opinionated statement, Major because some students had more than one major, and Birthplace because we asked which “state or country” a student was born in, making answers difficult to clean and organize. In the future, we hope to better word and organize our survey so we can get a more in-depth analysis.

Furthermore, we believe our responses are not as sufficient due to a limited number of responses from first or second year students. Ideally, we wanted an even number of responses across all years, but we did not take into account bias in answers as a majority of students taking this class

are third or fourth year students, limiting the potential outreach of our survey to first and second year students.