PRE-LAB ASSIGNMENT: STATS

**Please answer the following questions in your own words, we are not looking for a right answer just trying to get an understanding of your background. Please answer with full sentences, each answer should be several sentences (10 pts).**

1. **What is your experience with statistics? Are you familiar with any statistical tests?**

**I have had some experience with Statistics and this comes from taking AP Statistics and also my internship at NIH was centered around nonlinear regression statistics. Some statistical tests I am familiar with are chi squared test, t-tests,** **wilcoxon rank sum test, and ANOVA. I am also familiar with cross validation, permutation importance, and linear and nonlinear regression.**

1. **Why are statistics important for doing science?**

**Statistics are very important for doing science because it helps you determine whether you have meaningful results or not. It is also important because it helps you draw conclusions and analyses from your data. A lot of current science research has many limitations and statistics can help provide unbiased information while accounting for those limitations. It also helps us better communicate results to others.**