Jennifer Baez MARS- HW\_11

## Generalized Linear Models in R

Several topics were discussed in this lecture, some that I was not familiar with included how to do specific tests based on the number and combination of variables. For example data with 1 independent variable and 2 levels (independent groups) with categorical dependent variables requires a Chi-square test, this helps determine what kind of statistical analysis should be done on data. Quantile -quantile plots and homo\heteroscedasticity to determine normality, skew, and residuals is useful to determine results particularly when dealing with ANOVAs. Starting with all the basic commands and packages we needed to input and fit plots after importing data was very useful. Coding in R studios and performing stats by ANOVA has insisted a lot of curiosity since it is widely used in ag research and something I was only familiar with at the surface level, actually working with data and approving or disproving of the null hypothesis as part of exercises brought a lot more understanding between the statistics portion of the lecture and the coding. Particularly the exercises of regression, fitting a bowtie on a regression, and different normality tests on ANOVAs. I am more confident on using R to plot multiple kinds of regressions and distributions.