**Meetings with Katerina**

**5/28/20**

1. Study these!
   1. Paramatric approaches
   2. Data visualization
   3. Negative binomial data distribution
   4. T tests
   5. Standard deviation, Standard error, variance
2. General info
   1. Count data can is its own type of data, not continuous or categorical. It can become continuous when normalized/transformed
   2. Most count data follows a negative binomial distribution or some variation of it. While typically array data was considered poisson however it did not capture variance or addition information
3. Always set hypothesis first
4. Take home message
   1. We assume that the NULL hypothesis until we perform statistical tests that may provide us evidence that the alternative is true.
5. Two tailed test checks differences from both directions and is more conservative with estimates
6. PCA clusters are relative to each other and PC values should not be considered as a ranking as much
7. Ask about Harrys project to Lauren