Biostatistics
Fall 2024

Final Capstone Project Feedback – 35 Points

Student: Chris Augustine Score: 32.5 /35 = 92.9 %

Part 1: Clean up your Repo – 5 pts Score: 5

Using Git/GitHub effectively and organizing a project well

Feedback: Project correctly on github. Easy to understand organization, and project was pushed to github correctly. Good.

Part 2: Finalize statistical analyses- 20 pts Score: 19

Remove unneeded code; Follow correct workflow; Reflects feedback; overall challenge

Feedback: Analysis 1 - good job figuring out that you needed non-parametric test. You have a really big data set, and so a p-value of 0.057 probabaly really means that there is no difference between groups. BUT that said, it is very close to p = 0.05 so I'd like to see you think a bit more about the possibility that something meaningful is going on here but is hard to discern perhaps due to some unmeasured (or not included) confounding variable. Otherwise great job!

Analysis 2 - Nice work walking through the analysis. Your qq plot shows quite a deviation from normality, and you are correct that with a large sample size ANOVA is ok, but I would like to have had you explain why (central limit theorem).

Part 3: Final report – 10 pts Score: 8.5

Intro, Analysis with biological insight , Challenges; Well-written; Strong use of markdown

Feedback: Some markdown issues, e.g. section headers like ##Introduction. W/out a space between ## and Introduction you don't get rendered markdown.

e.g. line 183 "Model time and checking assumptions" - ok in draft form, but for a final report for the "customer" you should write more formally.