Biostatistics
Fall 2024

Final Capstone Project Feedback – 35 Points

Student: Matt Serrano Score: 31.25 /35 = 89.3%

Part 1: Clean up your Repo – 5 pts Score: 4.75

Using Git/GitHub effectively and organizing a project well

Feedback: GitHub is good - all seems to work well. Metadata should be in data folder.

Part 2: Finalize statistical analyses- 20 pts Score: 17.5

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

Feedback: Analysis 1: Time series. Lines 132 - 136: I'd like to know why you picked k = 3. I like your final plot, though you could change the title to something more meaningful. Analysis 2: Ordination - you could make the NAs zero (absence) and you wouldn't lose 6 species. Line 264 - again you delete the NA, but it just means that the species was not detected at a location, so dry mass == 0. See example code. What to do with the warning: stress is (nearly) zero: you may have insufficient data? Good job tweaking ordination plot. Interpretation of ordination - stress = 0 does not mean there is a significant different between the 5 study sites - that is not a test you are doing. As you noted, this is a data visualization/data reduction exercise - a "hypothesis test" is not performed.

Part 3: Final report – 10 pts Score: 9

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

Feedback: Nice end to intro telling what is to come. Good use of headings with markdown, no other markdown bells/whistles.

I think if we had met, we could have talked about how to deal with the warning issue in your ordination.

Since time series was very straigthforward, would have been good to work on plot.

Overall a good job though.