Capstone Data Analysis Project – Preliminary Data Analysis
Biostatistics

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Submitted on time?   ◯ Y   ⦿ N

GENERAL REQUIREMENTS (10 POINTS):

Element	Points	Score	Feedback
Effective git/GitHub	1	1	
Well-organized	1	1	
Strong commentary outside of code chunks	3	3	really good!
Effective use of comments within code chunks	2	2	great
Code provides correct values and reduces "human intervention"	2	2	
Link on Canvas	1	1	

STATISTICAL ANALYSES (15 POINTS):

☑ Took initiative to learn new methods as appropriate

☑ Generally followed the our workflow:

    Plot -> Guess -> Create model -> Check assumptions -> Interpret -> Final plot

Statistical analysis 1:

Question: Ordination to see how similar different transects are in terms of bird diversity

Workflow checklist

☐ 1. Plot data   ☐ 2. Guess relationships

☐ 3. Create model: Prep data for Ordination, calculate diversity indices

    ☐ Correct model?

☐ 4. Check model assumptions, if needed   ☐ 6. Replot

☑ 5. Interpret model   ☐ 7. Clear results statement

    ☑ Interpretation is correct   ☐ In prose

                                              ☐ Outside of code chunk

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Statistical analysis 2:

Question: Does species abundance differ between the 3 ecosystems?

Workflow checklist

☑ 1. Plot data   ☐ 2. Guess relationships

☑ 3. Create model: 1-way anova

   ☐   Correct model?

☐ 4. Check model assumptions, if needed   ☐ 6. Replot

☐ 5. Interpret model   ☐ 7. Clear results statement

   ☐   Interpretation is correct   ☐   In prose

                                                       ☐   Outside of code chunk

Statistical analysis 3:

Question: What environmental factors predict species detectibility?

Workflow checklist

☐ 1. Plot data   ☐ 2. Guess relationships

☐ 3. Create model: _____

   ☐   Correct model?

☐ 4. Check model assumptions, if needed   ☐ 6. Replot

☐ 5. Interpret model   ☐ 7. Clear results statement

   ☐   Interpretation is correct   ☐ In prose

                                                       ☐ Outside of code chunk

Additional feedback

Looking good so far. I think you have 3 analyses, or 4 if you include the ordination, and my form didn't have room for all of them.

Please remember with the multiple regression and possibly the ordination to make some preliminary and final plots.

I gave a lot more feedback in the prelmin-analysis-feedback.qmd file.

thank you for such thorough commentary - it made it easy for me to understand your steps and decisions.