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	2	please work on adding detail
Effective use of comments within code chunks	2	2	
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: Is mean DO different in 4 months of the year?

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 2:

Question: <u>Is there a relationship between DO and pH?</u>

Workflow checklist

☑ 1. Plot data ☑ 2. Guess relationships

☑ 3. Create model: <u>linear regression</u>

  ☑ 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: <u>Maybe play around with time series?</u>

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

Overall this is very good - I'd like you to work a bit more to provide commentary in your code.

I provided a lot more feedback in prelim-analysis-feedback.qmd

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