Biostatistics: Problem Set 3 – Introductory Statistics

Name: Liz Anderson Score = 21.0 /25

GitHub repo: https://github.com/liz-and/Anderson-PS3

Submitted on time? (•) Y ( ) N

| Project element | Value | Pts earned | Comments |
|---|---|---|---|
| Successfully fork a GitHub repository and create a new RStudio project from fork<br>• Project called "Lastname-PS3" | 1 | 1 | good |
| Set up project and workspace, pull in and examine data, fix mistakes<br>• Lastname-PS3.qmd<br>• Use at least 2 functions<br>• Assign data types<br>• Error checking | 2 | 1 | good for factors; you did not do any error checking for the continuous variables. |
| Analyze Q1: Does body mass differ b/w these 5 species of bats, and if so, how does body mass differ b/w species?<br>• Nature of P and R vars<br>• Analysis method explained<br>• More polished figure<br>• Clear, written interpretation | 4 | 3.5 | Good working out what analysis to do. Good estimation of means. Good checking assumptions.<br><br>You did not provide a final figure. |
| Analyze Q2: Does body length differ b/w species and, if so, how ?<br>• Nature of P and R vars<br>• Analysis method explained<br>• More polished figure<br>• Clear, written interpretation | 4 | 3.5 | Another good analysis but you neglected to create a final, polished plot. |
| Analyze Q3: Is the number of ticks found on the bats associated with their sex or age?<br>• Nature of P and R vars<br>• Analysis method explained<br>• More polished figure<br>• Clear, written interpretation | 4 | 2.5 | You are looking for an association in counts between two different categorical variables, which is a chi-square test of independence. So you selected the incorrect analysis. |

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| Analyze Q4: Disregarding species, is there a relationship in bats b/w tail length and body length?<br>• Nature of P and R vars<br>• Analysis method explained<br>• More polished figure<br>• Clear, written interpretation | 4 | 3.5 | Overall, good, and good job estimating slope, intercept. My only complaint is that you didn't rename the axes in your final "polished" figure. |
| Thought processes are well documented outside of code blocks, code is well commented, all steps prior to data analysis | 4 | 4 | good |
| Successfully open a pull request to add your changes to the forked repository<br>• Commit changes<br>• Open PR<br>• Link pasted in Canvas | 1 | 1 | good PR |
| Code represents material we have covered in GSWR Chs 3-5 and not elsewhere | 1 | 1 | |
| Additional feedback | | | |