Biostatistics: Problem Set 3 – Introductory Statistics

Name: Chris Augustine Score = 22.5 /25

GitHub repo: https://github.com/chrisaugustine123/PS3-Applying-Stats

Submitted on time? (●) Y ( ) N

Project element	Value	Pts earned	Comments
Successfully fork a GitHub repository and create a new RStudio project from fork • Project called "Lastname-PS3"	1	0.5	You didn't name the project correctly.
Set up project and workspace, pull in and examine data, fix mistakes • Lastname-PS3.qmd • Use at least 2 functions • Assign data types • Error checking	2	1.5	I would like to see some looking for outliers for the numerical 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? • Nature of P and R vars • Analysis method explained • More polished figure • Clear, written interpretation	4	3.5	I see that you did some basic outlier checking here, but it would have been good in step above to also plot individual histograms. What is the nature of predictor, response that led you to fit this model? At line 119 you called tukey test output 'tukey1" but at 125, 131 need 'tukeyres' Interesting final plot to use stat_summary. Nice
Analyze Q2: Does body length differ b/w species and, if so, how ? • Nature of P and R vars • Analysis method explained • More polished figure • Clear, written interpretation	4	4	I dinged you 0.5 pts between analysis 1 and 2 for not being explicit about nature of predictor, response, justifying why 1-way ANOVA is correct. Otherwise both are good!
Analyze Q3: Is the number of ticks found on the bats associated with their sex or age? • Nature of P and R vars • Analysis method explained • More polished figure • Clear, written interpretation	4	3.5	Good overall, and you did better addressing why you selected the chi-square test. On the polished plot, should have better y-axis label.

Analyze Q4: Disregarding species, is there a relationship in bats b/w tail length and body length? • Nature of P and R vars • Analysis method explained • More polished figure • Clear, written interpretation	4	4	Good eyeballing slope, y-int For analysis 3 and 4 I docked you 0.5 total because your polisched plots did not have good axis labels.
Thought processes are well documented outside of code blocks, code is well commented, all steps prior to data analysis	4	3.5	good overall, but a bit "casual" for a formal assignment (some run on sentences, lack of capitalization, etc.)
Successfully open a pull request to add your changes to the forked repository • Commit changes • Open PR • Link pasted in Canvas	1	1	
Code represents material we have covered in GSWR Chs 3-5 and not elsewhere	1	1	
Additional feedback			