Biostatistics: Problem Set 3 – Introductory Statistics

Name: Margaret Dougher Score = 20.5 /25

GitHub repo: https://github.com/margaretdougher14/Dougher-PS3.git

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	1	good
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	Good on factors but you did not check your numeric vars for errors (outliers)
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	Good choice of test. Guesstimate means before creating model. What does autoplot show you? How do you interpret it?Need degress of freedom with F stat and final plot.
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	3	Same feedback as for analysis 1
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	4	Good choice of chi-square test.

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!
Thought processes are well documented outside of code blocks, code is well commented, all steps prior to data analysis	4	2.5	You present a lot of code such as 'autoplot(model_name)" but never say what that code shows you / what it means. This is true for anova (model_name) as well.
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			