Biostatistics: Problem Set 3 – Introductory Statistics

Name: __Sezim Chynkozhoeva__   Score = __22.75__ /25

GitHub repo: __https://github.com/schyn25/PS3-Applying-Stats.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	0.5	did not name 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	2	Very nice job.
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	Line 161 - WHY is ANOVA correct? Explain nature of response and predictor vars. Line 172 - add 'ncol = 1' to facet will stack each species on top of next for visual comparison. Boxplot is not good final plot - does not showcase means, which are the subject of test. See text and key.
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	3.5	Similar feedback to 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 explaining why chi-square. Pink and blue columns in bar chart!

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	3.75	Line 463 - I'd like to see you guesstimate the y-intercept and slope based on the plot Final plot should include geom_smooth (method = "lm")
Thought processes are well documented outside of code blocks, code is well commented, all steps prior to data analysis	4	4	excellent
Successfully open a pull request to add your changes to the forked repository • Commit changes • Open PR • Link pasted in Canvas	1	0.5	No PR request made
Code represents material we have covered in GSWR Chs 3-5 and not elsewhere	1	1	
Additional feedback			