TITLE

SUBTITLE

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The write-up should be 5 pages or fewer and written in the same style as a journal article, but with more detail and focus on the analysis.

Introduction

Background

Research question

1.

Data description

Observational/experimental units

Sample size

Response and predictors

- continuous or categorical (with levels)

Study design

Summary statistics and graphics

Typically done BEFORE formal model fitting

I do not expect the graphs to be "publication quality", but they should be clearly labeled. As a rule, a graph should only be included in a paper if you have something to say about it.

Analysis

approach from this class: MR, factorial ANOVA, mixed model

2+ predictors with single response variable (running same analysis for multiple response variables will not earn additional credit)

- description/discussion of analysis - reproducible

- justify any decisions (e.g., median-split)

- discuss model assumptions (consider including diagnostic plots)

Results and conclusions

Present results

- Type 3 ANOVA table and/or table of estimated coefficients or other tables
- interpretation and discussion (even if nothing is significant!)
- address research questions

STYLE

- about 5 pages including graphs but excluding code or references
- writing quality
- clean output (kable tables or in-line coding)
- code in appendix; congruency between code and description

Appendix

```
# load packages
# library(readxl)
# library(tidyverse)
```

```r
# library(janitor)

# library(car)

# library(emmeans)

# set global options
knitr::opts_chunk$set(echo = FALSE,
                      warning = FALSE,
                      message = FALSE)
```