

Peer Assessments

General Overview

About Data Analysis Assignments

Data analysis assignments will consist of a project where you will obtain, clean, explore, analyze, and write-up a brief data analysis of an assigned data set. For each of the two data analysis assignments you will submit four parts (all are required).

1. A write-up of your data analysis explaining what question you were addressing, the data you used, how you applied statistical methods, and what the conclusions of your analysis were (less than 1,500 words)
 2. One figure and a corresponding figure caption (less than 500 words)
 3. A list of references for the statistical methods that you used. They should be referenced from the write-up in item 1.
 4. An R script that reproduces the numbers you report in item 1 and the figure in item 2.
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Data Analysis Assignments Grading

Your data analysis assignments will be graded by multiple other students in the class. Each student will assign a score using the rubric described below. Your score will be the median percent from the peer assessments, multiplied by 40.

The Data Analysis Rubric

You will assign a numerical score between 0 and 5 for each of the questions in the following rubric.

Item 1 - Write-up

- Does the analysis have an introduction, methods, analysis, and conclusions?
- Are figures labeled and referred to by number in the text?
- Is the analysis written in clear and understandable English?
- Are the names of variables reported in plain language, rather than in coded names?
- Does the analysis report the number of samples?

- Does the analysis report any missing data or other unusual features?
- Does the analysis include a discussion of potential confounders?
- Are the statistical models appropriately applied?
- Are estimates reported with appropriate units and measures of uncertainty?
- Are estimators/predictions appropriately interpreted?
- Does the analysis make concrete conclusions?
- Does the analysis specify potential problems with the conclusions?

Item 2 - Figure and caption

- Is the figure caption descriptive enough to stand alone?
- Does the figure focus on a key issue in the processing/modeling of the data?
- Are axes labeled and are the labels large enough to read?

Item 3 - References

- Does the analysis include references for the statistical methods used?

Item 4 - R script

- Can the analysis be reproduced with the code provided?

Data Analysis Assignments Dates

The following tables outlines the steps of the peer assessment submission and evaluation process, relevant dates for both peer assessment assignments, and a brief description of what happens in each step.

Event	Data Analysis 1	Data Analysis 2	What Happens
Submission starts	February 3, 11:30PM EST	February 24, 11:30PM EST	You may begin working. You can create and save multiple drafts any time during the submission window. Your draft enters into the system when you click the "Submit" button. You may submit drafts for evaluation multiple times before the submission deadline without penalty, but your final submission before the deadline is the draft that will be evaluated by your classmates. If you haven't clicked "Submit" by the deadline, your saved draft will not be evaluated by your classmates, and you will receive a score of 0 on the assignment. Please

			note that you MAY NOT use late days on the data analysis assignments.
Submission deadline	February 16, 11:30 PM EST	March 9, 11:30 PM EST	You may no longer enter work after this time. If you have not entered work by this time, you will not be able receive an evaluation for this assignment, and you will not be allowed to evaluate your classmates' work, and you will receive 0 points for this assignment.

Assignments

Details:

☐ OFF* Timezone: **America/Anchorage**

Data Analysis Project 1

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Submission

due on Mon 18 Feb 3:00 am (2 weeks, 1 day)