

STAT 537 Team Project

Pick a research question with real world data in your area of study. You are expected to fully explore the data with suitable techniques that we discussed in the course, but you can go beyond and be creative and innovative to accommodate any special features and structure of the data, design, and the methods.

Presentation: December 6, 2021 in class
Final Report due: 12Noon on December 10, 2021

Data, Design, and Presentation

Describe the question that you are pursuing. The project can be new, on-going, or old data that may have been already “analyzed and published” elsewhere. In the latter case, you must provide a critique of what was done and then attempt to improve the design and analysis for the future. Your team presentation will occur on December 6, 2021. Your presentation (and the written report) should include:

1. Introduction
 - include the basic science surrounding the data/investigation
2. Review of Methodology
 - a description of the statistical/observational study design
 - the data acquisition process
 - your choice of analysis methods among other possible options
 - critiques of the design, sample size, methods, and results, if published elsewhere
3. Data Analysis
 - your analysis with justification for the choice of the methods
4. Interpretation/Recommendation/Predictions
 - interpretation, and recommendations
5. Summary and Conclusions
 - discussion and predictions

Your team presentation should be made in a manner consistent with professional conferences. This also means you should be aware of the time that has passed and prepared to gracefully conclude your presentation in time. Each team member presents a section, with the content divided among team members. This means about 2 minute presentation for each member.

The Final Report

By 12Noon on December 8, 2021, the written report and the R code must be submitted to eClass project section. The written report can be at most 5 pages. You can have up to 2 pages of Appendix. Use 8.5×11 inches (21.5 cm x 28 cm) paper format, portrait style, with a single column. The font size should be no less than 12 pt with single spacing.

Timelines

Each submission should be done by 11.59AM on:

October 16, 2021 : The first member of the team submits the project outlines.

October 23, 2021 : The second member of the team submits the revised and final outlines.

November 6, 2021 : The third member of the team submits the progress report.

December 5, 2021 : The Forth member of the team submits the presentation slide.

On December 10, 2021, everyone submits each individualized final report, stating “your experience in the team project and verifying that you approved the project as presented and reported.”