

Stats 500 Project – Fall 2025

Canvas Submission with Deadline: 11:59pm, Monday, December 15, 2025

This dataset contains shared micromobility vehicle trip data reported to the City of Austin Transportation Department; see the data and related description is at the link below

https://data.austintexas.gov/Transportation-and-Mobility/Shared-Micromobility-Vehicle-Trips/7d8e-dm7r/about_data

You are free to pursue any meaningful question that can be addressed using this dataset. There are many promising possibilities for analyzing these data using the methods discussed in Statistics 500.

Expectations

- You should prepare a written report that is 10 – 12 pages in length including all tables and figures and with 1.5 – 2 line spacing. The report should be submitted as a single PDF file.
- Do not include any computer code in your main document. You may also provide an appendix with additional output and/or code but we are not obligated to consider the appendix when evaluating your exam. If you choose to provide an appendix please submit it as a separate PDF file.
- You are free to use any media resource. You are free to use any computing resources or software tools. You **must** cite all sources that you use, just as you would when writing a paper.
- You should focus on a limited number of questions that you think an applied researcher would ask based on these data. Motivation for the questions that you address should be clearly stated.
- The questions that you pose should primarily be addressed using statistical methods covered in **Stats 500**.
- You should motivate any data-analytic techniques that you use, and describe any limitations of your analysis. You should also discuss the implications of your results.
- A strong project does not necessarily need to identify a strong predictive relationship or a statistically significant association. An interesting question may turn out to have an ambiguous answer given these data. In that case, it is important to explain what limitations of the data or methods may have led to the outcome being ambiguous.
- The main review criteria are:
 1. Your report is clearly written.
 2. Your report addresses a clearly-stated and focused research question.
 3. Your report reflects a deep understanding of some of the techniques covered in the Stats 500.
 4. All of the claims made in your report are supported by the data, through your analyses.