STAT 855. Lifetime Data Analysis (Spring 2022)

Phase I of the Course Project (due on Monday March 14, 2022 by 8:00pm)

- To identify an interesting statistical problem, ideally based on a set of event time data from a paper in an accessible journal/web site:
 - (i) it is not plausible to assume the available data are iid observations on an event time of interest from its population, and
 - (ii) the published analysis of the data, if there is any, has room to improve.
- To start with a descriptive analysis of the data, and then plan for your own analysis according to the data summary:

(i) your proposed analysis should include at least one parametric inferential procedure and one nonparametric/semi-parametric procedure, and

(ii) at least one of the merits of your analysis is not seen in the original analysis.

• To put together your research plan with 5 pages or less, which is to be turned in by the due day.

Your plan is suggested to include the following.

(i) A brief description of the original study, which presents the data that you are going to analyze, and a brief summary of the data. Please give the full citation of the article(s) or the link(s) of the web site(s) in the research plan, together with the list of your all other references for this project.

(ii) A list of the problems/questions that you observe from the original data analysis and plan to address/answer.

(iii) A list of the specific analysis procedures that you plan to carry out with the data.

(iv) Some brief discussion about the potential significance and limitation(s) of your project.

Enjoy the project!