

## **GR5222/GU4222 Project Instruction**

**Group member list due: April 3**

**Project presentations: April 29, May 1 and May 6**

**Project report due: May 13**

You are required to participate in a small group project. A group may consist of about 4-5 participants, each contributing to the project report and presentation. Each group should send its group member list to Guanhua Fang (gf2340@columbia.edu) by April 3. Anyone not in the lists will form groups by us. Your group should decide a topic using nonparametric methods to analyze a data set of your choice (you can either collect data yourselves or find an existing data set). The statistical methods may be beyond, but related to, the materials covered in this course. The last three classes will be dedicated to project presentation. The written report of your project is due on Monday, May 13 (online submission) and should include the following parts.

0. A title page, with the title of the project and each participant's name.
1. An introduction describing the study and the data.
2. Main objectives and a plan about how to achieve them.
3. Description of your analysis, including methods, formulae being used and, possibly theory behind them.
4. Results of statistical analysis, with your own interpretation. In presenting your results, you may want to use summary tables/figures.
5. Conclusions.
6. Attachments: computer codes and a collection of computer outputs.

\* The main part (items 1-5) should be no more than four pages long, but there is no page limit on the attachment.