STAT 8801 Statistical Consulting

Methodological Discussion

A consulting statistician must be jack of all trades and master of some. You've learned a lot about statistics from your courses, but there are many, many other methods out there.

Below is a list of methods/topics that could conceivably be useful in consulting and may not have come up in your coursework. Each of you is to prepare a presentation of ten minutes on one of these methods. Your presentation should

- Describe what the method is for.
- Give an example of a potential or preferably real application.
- Give a reference where others could go to find out more.
- Is software available for this method? If so, tell us about it.
- Include a **one-page handout** that summarizes your your talk and provides references. The handout must include your name and the date of your presentation.

You should also be prepared to answer questions from the audience. You will be given evaluations of your presentation by every member of the audience. Feel free to ask me questions. A schedule of topics, speakers, and dates is given below.

Topic	Date
Bioequivalence	Apr 17
Ecological inference	Apr 17
Instrumental variables	Apr 17
ROC curves	Apr 17
Item Response Theory	Apr 24
Measures of Agreement	Apr 24
Structural Equation Modeling	Apr 24
Seemingly Unrelated Regressions	Apr 24
Errors in variables	May 1
Imputation of missing values	May 1
Intent to treat	May 1
Kaplan-Meier estimator	May 1
	Bioequivalence Ecological inference Instrumental variables ROC curves Item Response Theory Measures of Agreement Structural Equation Modeling Seemingly Unrelated Regressions Errors in variables Imputation of missing values Intent to treat