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.

You have each been assigned (at random) a method or topic that could conceivably be useful in consulting and may not have come up in your coursework. Most are relatively new methods, though a few are older methods that have mostly fallen out of favor. Each of you is to prepare a presentation of eight minutes on your randomly assigned topic. Your presentation should

- Describe what the method is for.
- Give an example of a potential or preferably real application.
- Give two or three references where others could go to find out more, including at least one journal article or book (that is, not just web links!).
- Describe any software available for this method.
- 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

Feel free to ask me questions. A schedule of topics, speakers, and dates is given on the next page. If you need to switch dates with someone, please let both me and the chairs for those days know.

Please send me your slides and one-page handout by 2pm on the day of the talk; I will make copies for all.

Chairs for these talks are below; you should plan on how you may have to give speakers warnings for time and stop them if they talk too long.

Date	Chair
Fri Apr 9	Ying Lu
Fri Apr 16	Xiao Zhong
Fri Apr 23	Yi Yang
Fri Apr 30	Danning Li
Wed May 5	Teng Zhang

Name	Topic	Date
Gang Cheng	Tukey mean-difference plot	Fri Apr 9
Shu Ding	Kaplan-Meier	Fri Apr 9
Craig Rolling	Autoregression	Fri Apr 9
Teng Zhang	Errors in variables	Fri Apr 9
Shanshan Ding	Cluster sampling	Fri Apr 9
Changqing Ye	Two-stage least squares	Fri Apr 16
Lingzhou Xue	Propensity scores	Fri Apr 16
Andy Wang	Sandwich estimator	Fri Apr 16
Wei Qian	Seemingly unrelated regressions	Fri Apr 16
David Zepeda	Robust Estimation	Fri Apr 16
Chun Pu Song	Item Response Theory	Fri Apr 23
Xiao Zhong	Partial least squares	Fri Apr 23
Ka Young Park	Elasticity	Fri Apr 23
Jing Yang	Intent to treat	Fri Apr 23
Danning Li	Censored data	Fri Apr 23
Eric Graalum	Sheppard's correction	Fri Apr 30
Pamela Sweeney	Measures of agreement	Fri Apr 30
Yi Yang	Jackknife	Fri Apr 30
Ying Lu	Tolerance regions	Fri Apr 30
Ran Song	Bioequivalence	Fri Apr 30
John Zobel	Imputation of missing values	Wed May 5
Heng Zhang	ROC curves	Wed May 5
Qing Mai	Instrumental variables	Wed May 5
Yi Wang	Variograms	Wed May 5
Cindy Houser	Ecological inference	Wed May 5