

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 (almost all at random) a method or topic that could conceivably be useful in consulting, or that someone might ask you about, 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:
 1. Describe what the method or topic is for.
 2. Give an example of a potential or preferably real application.
 3. 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!).
 4. Describe any software available for this method.
- A **one-page handout** that summarizes the above four items from your talk, including 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 me know in advance.

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

Date	Name	Topic
Apr 8	Brad Price	Cluster sampling
Apr 8	Andy Johnson	Sandwich estimator
Apr 13	Yunzhang Zhu	Elasticity
Apr 13	Songxuan Shen	ROC curves
Apr 15	Christina Knudson	Seemingly unrelated regressions
Apr 15	Sen Yuan	Sen's Slope
Apr 18	Ying Zheng	Bioequivalence
Apr 18	Pat Zimmerman	Tukey mean-difference plot
Apr 20	Andrea Olson	Kaplan-Meier
Apr 20	Stacy Orlett	Measures of agreement
Apr 22	Martin Bezener	Gumbel distribution
Apr 22	Bo Ra Lee	Instrumental variables
Apr 25	Jeff Jones	Sheppard's correction
Apr 25	Feng Yi	Multiple imputation
Apr 27	Christine Oehlert	Collapsibility of contingency tables
Apr 27	Yiping Yuan	Parallel Coordinate Plots
Apr 29	Jeff Clobes	Variograms
Apr 29	Ben Sherwood	Ecological inference
May 2	Mark Albrecht	Intent to treat
May 2	Steve Nydick	Tolerance intervals/regions
May 4	Qian Chen	Errors in variables
May 4	Ann Pang	Generalized Estimating Equations
May 6	Xiaopei Wang	Item Response Theory