



What if Data is Missing?
• Why is the Data Missing?
*Missing Completely at Random
*Missing at Random

*Unignorable



(Multivariate) Normal Distribution $f(x) = \frac{1}{\sigma\sqrt{2\pi}} e^{\frac{(x-\mu)^2}{2\sigma^2}} -\infty < x < \infty$ $f(x) = |2\pi\Sigma|^{-1/2} e^{-\frac{1}{2}((x-\mu)^T \Sigma^{-1}(x-\mu))}$ STAT 520J530 B Habing Univ. of S.C.



























Homework for Tuesday the 13th

- 0) Read Chapter 1
- 1) Imagine that someone wanted to come up with a total score to summarize each persons view of the oil crisis (Q1-Q25).
- a) Explain why it doesn't make sense to just add up all of the numbers
- b) Find the correlation matrix for Q1-Q25 data set and suggest two separate groups of questions that might be added
 separately Univ. of S.C.

Homework for Tuesday the 13th

- c) How could these two scores be combined to form a single score?
- Check whether the data set normsamp.txt on the web is actually multivariate normal. (Code will be posted shortly for the various checks we went through today).

15