

Statistics 215a - 10/8/03 - D. R. Brillinger

Review: the first half of the course

Connecting threads.

Philosophy

Visualization

Fitting

Residual analysis

Robust/resistance

Computing

Enlightening examples

Principal topics (in order?).

Summaries of batches

stem-and-leafs

boxplots

transformations (e.g. Box-Cox)

robust/resistance

Confirmatory vs exploratory

Scatter plots

smoothing (kernel, local polynomial,...)

Summaries of location

Q-Q plots

Spread vs. level plot

Linear fitting

OLS

simple

multiple

robust/resistant

residual analysis

influence

one variable at a time

Nonlinear least squares

residuals

Two-way arrays

means (anova)

median polish

residual analysis

l_1 fitting

Throughout

R and Splus