STATISTICAL ANALYSIS OF RESEARCH DATA

in Natcher Conference Center is sponsored by the NCI Center for Cancer Research Office of Training and Education.

The lecturer is Paul Thurman of Columbia University (Paul. Thurman@Columbia.edu).

AGENDA

Jan 8, 2019 Univariatariate Data Analysis

9:00 a.m.	 Introduction and case overview (including review of first assignment)
	• Descriptive Statistics
	 Data/probability distributions (with focus on Normal)
	 Sampling distributions (mean and variance)
10:30 a.m.	Break
10:45 a.m.	 Sampling distributions (mean and variance, continued)
12:00 noon	Lunch Break
1:00 p.m.	• Small vs. large samples
	• One-sample inferential statistics: means, variances, confidence intervals
3:00 p.m.	Break
3:15 p.m.	 Two-sample inferential stats: two-sample t-tests (paired vs.

independent; means and proportions)

Tutorials: Excel tutorials on descriptive statistics, histograms, two-sample tests

5:00 p.m. Bivariate statistics (covariance, correlation, etc.); end by 6:00 p.m.

Jan 9, 2019 Bivariate Data Analysis

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9:00 a.m.		Simple	linear	regression
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10:30 a.m.	Break
10:45 a.m.	Multiple linear regression
12:00 noon	Lunch Break
1:00 p.m.	 Multiple linear regression (continued)
2:00 p.m.	Break (if needed)
2:15 p.m.	• Non-parametric tools: Chi-squared, Wilcoxon, Mann-Whitney goodness
	of fit tests (as time permits)

Tutorials: Regression, Chi-Squared, and ANOVA tests (as time permits) 4:00 p.m. Close (latest 4:15 p.m.)

For additional information contact the Course Coordinator, Dr. Terry Moody (moodyt@mail.nih.gov).