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 Dr. Paul Thurman of Columbia University (Paul.Thurman@Columbia.edu).

AGENDA

Mar 6, 2024 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.); latest end by 5:30 p.m.

Mar 7, 2024 Bivariate Data Analysis

9:00 a.m.	• Simple linear regression
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)

4:30 p.m.	Close

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