WEBINAR

AN OVERVIEW OF SOME METHODS FOR STATISTICAL ANALYSIS WITH MISSING DATA

September 20, 2023 ~ 12:00 p.m. - 1:30 p.m. ET

Presented by: Rod Little, University of Michigan

Missing data are a common problem in statistics; examples include unit and item nonresponse in surveys, attrition in longitudinal data sets, and missing data arising from noncompliance to treatments in clinical trials. Topics include (a) pros and cons of common methods, specifically analysis of the complete cases, nonresponse weighting and extensions, maximum likelihood, Bayes and multiple imputation; (b) approaches to missing data when the data are potentially missing not at random; (c) subsample ignorable likelihood approaches for regression with missing data, which address particular missing not at random mechanisms by selectively omitting data; and (d) causal inference under noncompliance to treatments as a missing data problem.

Rod Little is Richard D. Remington Distinguished University Professor of Biostatistics at the University of Michigan, where he also holds appointments in the Department of Statistics and the Institute for Social Research.

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