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COLLOQUIUM ANNOUNCEMENT

Department of Statistics
Virginia Tech

Thursday, September 10, 2009
204 Hutcheson Hall
3:30 p.m.

SPEAKER: Tina Savla
Dept. of Human Development, Virginia Tech

TITLE: Effects of Missing Data on Statistical Power: A Primer

ABSTRACT:

Missing data are a nearly inevitable aspect in longitudinal studies. Although one might expect that any missing data would simply reduce power, recent research suggests that not all missing data were created equal. In other words, some types of missing data may have greater implications for loss of statistical power than others. In this presentation, I will attempt to bring statistical power and incomplete data together under a common framework. Ways to assess and anticipate the extent of loss in power with regard to the amount and type of missing data will be the focus of this presentation. First some fundamentals will be discussed. Next, we will consider how structural equation models can be used to estimate statistical power with incomplete data. Discussion of a number of factors that can moderate the effects of missing data on loss of statistical power from a measurement, design, or analysis perspective will also be discussed.



☺ Refreshments will be available at Top of the Stairs following the seminar. ☺