From: Hudes, Estie
Subject: OOPS -- Methods Core Seminar 2/21/2014 - Dr. Ann Lazar
Date: Sunday, February 02, 2014 9:43:01 AM

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Dear Methods Core seminar participants,

Our February seminar will take place in three weeks.

Topic: **The Johnson-Neyman technique for clustered data**

Presenter: Ann Lazar, PhD
Assistant Professor
UCSF School of Dentistry,
Division of Oral Epidemiology

Time & Place: Friday, February 21, 10-11:30
McKusick Conference room
50 Beale Street, 13th floor
San Francisco, CA 94105

Abstract: The use of mixed models to estimate and compare fitted regression curves from longitudinal studies with correlated data is well established. While the typical analytic approach determines whether the curves differ, the Johnson-Neyman (J-N) is concerned with determining where the curves differ. The J-N, for example, has been used to evaluate when during the pre-diagnosis study period biomarker levels differed between case and control groups or between a subject and a group, as the time at which biomarkers become elevated in this period may have important implications for determining causative, predictive and prognostic factors. These analyses involve comparing population-average and subject-specific curves generated from mixed models. The J-N provides a solution that eliminates testing at every value of the continuous independent variable or pre-diagnosis study time (in this study, from 0 to 4994 days) and addresses the multiple testing problem. Examples from longitudinal surveys and case-control studies as well as randomized clinical trials (RCTs) will be provided to illustrate how the J-N approach can be used to explore graphically the pattern of heterogeneity as a function of continuous covariates. We have developed SAS macros to implement the J-N approach, and they can be found in the appendix of the following articles: Lazar AA, Zerbe GO. Solutions for determining the significance region using the Johnson-Neyman type procedure in generalized linear (mixed) models. *Journal of Educational and Behavioral Statistics*, 36; 6: 699-719, 2011; Lazar AA, Gansky SA, Halstead DD, Slajs A, Weintraub JA. Improving patient care using the Johnson-Neyman analysis of heterogeneity of treatment effects according to an individual's baseline characteristics, *Journal of Dental, Oral and Craniofacial Epidemiology*, in-press.
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Short bio**:** Ann Lazar, PhD, is an Assistant Professor in the School of Dentistry, Division of Oral Epidemiology (primary appointment) and School of Medicine, Division of Biostatistics (secondary appointment). She is a biostatistics consultant for the UCSF Clinical & Translational Science Institute (CTSI) and affiliated with the Center to Address Disparities in Oral Health, known as CAN DO.

Hope to see many of you at the next seminar,

--Estie

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For building entrance at 50 Beale St., please RSVP to *Estie Hudes* ahead of time.

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