

Biostatistics Joint Symposium

Thursday, April 14, 2016

Ohio State's Biomedical Research Tower

Before 11 Poster set up

11:15-11:45 Guy Brock, OSU: "Projected outcomes of six-month delay in exception points vs. an equivalent MELD score for HCC liver transplant candidates."

11:45-12:45 Lunch provided, RSVP requested

12:45-1:15 Chun Li, CWRU: "A New Coefficient of Determination for Regression Models."

1:15-1:45 Edward Mascha, CCF: "Average relative effect versus standard multivariate tests for composite outcomes."

1:45-2:30 Break and poster session

2:30-3:30 Keynote address



Keynote Address:

"Some statistical challenges in the analysis of Alzheimer's disease studies"

Dr. Rebecca Betensky

Professor of biostatistics at Harvard's TH Chan School of Public Health

Alzheimer's disease studies are rich in the analytic challenges that they present, and these challenges must be addressed with appropriate methods to avoid bias. I will present some statistical challenges that I have faced in my collaborations in Alzheimer's disease studies and methods that I have applied and developed to handle them. These include analyses of autopsy studies and issues of selection bias and truncation due to death, cross-study imaging analyses and accommodation of different imaging platforms and efficient design of clinical trials that are informed by existing longitudinal studies. I will focus on the problem of randomly censored covariates, such as age of onset, in regression models and the use of multiple imputation and thresholding methods to address this. I will also discuss the treatment of time-varying covariates that are measured only at (delayed) study entry in Cox regression models and methods for avoiding biased estimation.



THE OHIO STATE
UNIVERSITY



The 2016 Biostatistics Joint Symposium is supported by The Ohio State University (Department of Statistics, College of Public Health and Center for Biostatistics)