





BIOSTATISTICS SEMINAR

Bayesian Learning from Big Data

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Abstract

It has become common in many application areas to collect very big data sets, leading to challenges in statistical analyses. The overwhelming majority of the relevant literature focuses on frequentist and algorithmic approaches for point estimation, with no consideration of inferences under uncertainty. In biomedical applications and many other settings, such point estimates are essentially useless without accompanying uncertainty intervals. This talk will focus on scaling up Bayesian methods, with a particular emphasis on applications to nonparametric regression with a million predictors and estimating dependence networks based on huge multiway data. Applications in neurosciences, web advertising, epidemiology and social sciences provide motivating context.

The Johns Hopkins Bloomberg School of Public Health
Department of Biostatistics, Monday, November 11, 2013
Room W4030 School of Public Health- 12:15-1:15 (Refreshments 12:00pm)

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