



Moving to Big Data: The Changing Practice of Statistics in the Analytics Era

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Monday, April 28, 2014, 7:30 PM – 8:30 PM, Dwight Performing Arts Center (DPAC)

The methods taught in a traditional first course in statistics were largely developed over the past 150 years to handle data produced through scientific experiments or surveys. This sort of data is expensive to produce, and the techniques used try to take advantage of every observation. While traditional statistical methods remain valuable and important, the era of 'big data' has arrived, in which huge numbers of observations and variables can be stored efficiently at low cost. This has created opportunities for mathematicians and statisticians to take new approaches. In this talk we highlight some of the themes that are common to these newer approaches, and we compare them to traditional methods.

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<http://www.framingham.edu/~smabrouk/preskenis/annual/twelfth.htm>