Boston University Statistics and Probability Seminar Series

Network Sampling with Sampled Networks

Joseph Blitzstein

Deaprtment of Statistics,

Harvard University

Thursday, April 24, 2008, 4-5pm

Mathematics and Computer Science (MCS) Building, Room 149

111 Cummington Street, Boston

Tea and Cookies at 3:30pm in MCS 153

Abstract: Data naturally represented in the form of a network, such as social and information networks, are being encountered increasingly often and have led to the development of new generative models (such as exponential random graphs and power law mechanisms) to attempt to explain the observed structure. Since it is usually prohibitively expensive to observe the entire network, sampling within the network is needed, using schemes such as snowball sampling. We will discuss strategies for both generation and sampling of networks (via importance sampling, MCMC, and iteratively), and how the two problems relate.

For directions and maps, please see *http://math.bu.edu/research/statistics/statseminar.html.*