The DIVISION OF BIOSTATISTICS
of the
MEDICAL COLLEGE OF WISCONSIN

Proudly Presents
A Special Talk

By:

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Latent Space Models for Dynamic Networks

Dynamic networks are used in a variety of fields to represent the structure and evolution of the relationships between entities. We present a model which embeds longitudinal network data as trajectories in a latent Euclidean space. A Markov chain Monte Carlo algorithm is proposed to estimate the model parameters and latent positions of the nodes in the network. The model parameters provide insight into the structure of the network, and the visualization provided from the model gives insight into the network dynamics. We apply the latent space model to simulated data as well as real data sets to demonstrate its performance.

Tuesday, March 22, 2016
3:30 – 4:30 PM
Medical College of Wisconsin
Room M2050 – 2nd floor of the MEB
Refreshments 3:00 – 3:30 PM in H2030