



The University of Chicago  
Department of Statistics

Bahadur Memorial Lecture Series

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**WING H. WONG**

Statistics and Health Research and Policy  
Stanford University

**Learning Causal Bayesian Network Structures  
from Experimental Observations**

**THURSDAY, March 29, 2007 at 4:00 PM**  
**133 Eckhart Hall, 5734 S. University Avenue**

**ABSTRACT**

We propose a method for the computational inference of directed acyclic graphical structures given data from experimental interventions. Order-space MCMC, equi-energy sampling, importance weighting and stream-based computation are combined to create a fast algorithm for learning causal Bayesian network structures. (This is based on joint work with Byron Ellis.)

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