



The University of Chicago
Department of Statistics

FIRST YEAR PHD PRESENTATION

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**Parameter Estimation and Prediction
for Log-Gaussian Cox Process**

WEDNESDAY, May 25, 2011, at 4:30 PM

110 Eckhart Hall, 5734 S. University Avenue

ABSTRACT

In many fields, especially in environmental epidemiology, people have to deal with space-time point pattern data. Cox processes are widely used as models for point patterns which are thought to reflect underlying environmental heterogeneity. Here, I will talk about one class of Cox processes whose stochastic intensity is a space-time Ornstein-Uhlenbeck process. Especially, I will talk about the parameter estimation and intensity prediction of these specific Cox processes.

Information about building access for persons with disabilities may be obtained in advance by calling Sandra Romero at 773.702-0541 or by email (sandra@galton.uchicago.edu).