The University of Chicago
Department of Statistics

Seminars for Second Year Ph.D. Students

TAKINTAYO AKINBIYI
Department of Statistics
The University of Chicago

Some Recent Approaches to Modeling Durations in Time Series

WEDNESDAY, April 14, 2010, at 4:00 PM
110 Eckhart Hall, 5734 S. University Avenue

ABSTRACT

Classical time series analysis focuses on data observed at regularly spaced intervals (durations). However, in many physical and economic processes observations are made at random intervals and the duration between observations affects the distribution of the observations. I will look a some recent approaches to time series analysis that view the series of durations as a marked point process and model its conditional intensity. I will pay particular attention to the mixed proportional hazards model and the autoregressive conditional duration model. I will discuss the development and application of these models with some mention of how they perform on stock data. Lastly, I will contrast the approach of modeling conditional intensity versus specifying the unconditional distribution of the intensity.

Information about building access for persons with disabilities may be obtained in advance by calling Kelly Macias at 773.834.5169 or by email (kmacias@galton.uchicago.edu).