Graduate Seminar in Mathematics

**Thursday, March 12, 2020, 1-2pm
A-1046**

Speaker: Candemir Cigsar

Statistical Models and Methods for Recurrent Events

Abstract

In many fields of application, events of interest may repeatedly occur at any point in time or space according to some chance mechanism. Familiar examples include events defined as breakdowns of power plants in the field of reliability, hospital admissions of patients in epidemiology or occurrence of acute exacerbations of chronic bronchitis in medicine. Statistical models and methods to analyze such events are key to understanding of data generating mechanisms behind processes producing recurrent events. In this talk, I will review fundamental stochastic process models for such recurrent events, as well as discuss likelihood based parametric inference methods for analyzing recurrent event data.