



The University of Chicago
Department of Statistics

FIRST YEAR PHD PRESENTATION

HYUN PARK

Department of Statistics
The University of Chicago

**Genomic-Control Approach to Analyzing a
Case-Control Sample**

WEDNESDAY, May 25, 2011, at 5:30 PM

110 Eckhart Hall, 5734 S. University Avenue

ABSTRACT

In genetic association studies, case-control designs have many advantages over family-based designs (e.g. cost effective). In case-control samples, however, population heterogeneity can lead to spurious association between genes and disease. In the presentation, I will discuss the genomic control approach presented in *Genomic Control for Association Studies* (B. Devlin, K. Roeder, 1999) which can deal with the effect of population substructure and cryptic relatedness among subjects by estimating correction factors for association tests.

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).