



The University of Chicago
Department of Statistics

Mini-seminars for Second Year Ph.D. Students

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**Testing Ungenotyped Genetic Variation
in Genome-wide Association Studies**

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110 Eckhart Hall, 5734 S. University Avenue

ABSTRACT

In genetic association studies, the knowledge about un-genotyped genetic variation is crucial for disease mapping. To tackle this problem, we incorporate Linkage Disequilibrium (LD) obtained in a population reference panel and quantify information as a function of multi-locus LD. In this talk, we will introduce a formal statistical testing procedure to evaluate the difference of allele frequencies for untyped genetic variants in a case/control study context. This work is an implementation of the framework proposed by Nicolae (2006).