



The University of Chicago
Department of Statistics

Seminars for First Year Ph.D. Students

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Testing for Individual Contributions to Complex DNA Mixtures

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110 Eckhart Hall, 5734 S. University Avenue

ABSTRACT

In this presentation I discuss a method for determining the presence of an individual's DNA in a complex DNA mixture based on high-density SNP microarrays. In addition to the statistical procedure, I will discuss some consequences this procedure has on forensic analysis as well as privacy issues associated with genotype data. This presentation is based on the paper: Homer N, Szeling S, Redman M, Duggan D, Tembe W, et al. (2008) Resolving Individuals Contributing Trace Amounts of DNA to Highly Complex Mixtures Using High-Density SNP Genotyping Microarrays. PLoS Genet 4(8): e1000167. doi:10.1371/journal.pgen.1000167.