



STATISTICS DEPARTMENT COLLOQUIUM

MONDAY, MARCH 9, 2009

Talk: 4:00 PM – *Science Center 309*

Reception: 5:15 PM – *Science Center, 7th Floor*

**“Genome Wide Association Scans in Samples That
Are Admixed or Contain Related Individuals”**

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ABSTRACT

It is increasingly well understood how to carry out a genetic association test against a phenotype, when the samples are unrelated individuals from a reasonably homogeneous population, for example North Europeans. It is less clear what is technically appropriate when the samples are related (family data), or the population is admixed, such as African-Americans. We develop some new theory, showing asymptotic optimality in some cases, with large samples and weak effects.