

The University of Chicago

Department of Statistics

Seminar

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Indian Statistical Institute, Calcutta, India

“Statistical Learning from DNA Words”

Monday, September 27, 2004 at 4:00 PM
133 Eckhart Hall, 5734 S. University Avenue

ABSTRACT

I will start with some examples from evolutionary biology to demonstrate how distributions of various words in DNA sequences can be used to learn important facts in evolutionary biology. The statistical analysis used involves an interesting variable selection problem. This motivated developing certain probabilistic models for replication of DNA sequences which will be discussed.