

**The University of Chicago**

**Department of Statistics**

**Seminar**

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**“Statistical Models in Wireless Communications”**

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**Monday, April 15, 2002 at 4:00 pm**  
**133 Eckhart Hall, 5734 S. University Avenue**

### **ABSTRACT**

Wireless communication systems and services have undergone a remarkable development, since the first cellular system was introduced in early 1980s. The wireless communication channel is a random propagation environment and efficient data transfer over such a channel requires a good knowledge of its statistical characteristics. In this talk we discuss a variety of spatio-temporal correlation models that play key roles in the analysis and design of new generation of wireless systems. If time permits, the problem of the first exit time of a vector Gaussian process from a safe region and its connection with the random wireless channel will be briefly discussed.

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