



The University of Chicago  
Department of Statistics

Mini-seminars for Second Year Ph.D. Students

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**Bayesian Spatial Modeling of Extreme Precipitation Return Levels**

**WEDNESDAY, April 9, 2008 at 4:15 pm**  
**110 Eckhart Hall, 5734 S. University Avenue**

### **ABSTRACT**

Quantification of precipitation extremes is important for flood planning purposes and this paper presents a method for producing maps of precipitation return levels in Colorado. Separate hierarchical models are constructed for the intensity and frequency of extreme precipitation events. The presentation will be focused on how the temporal and spatial dependence of extremes are modeled.