

**RUTGERS UNIVERSITY**  
**DEPARTMENT OF STATISTICS AND BIostatISTICS**  
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**Seminar**

Speaker: **Professor Ming Yuan**  
**Department of Statistics**  
**University of Wisconsin-Madison**

Title: **Optimal Detection of Sparse Signal Segments**

Time: **3:20 – 4:20pm, Wednesday, April 16, 2014**

Place: **552 Hill Center**

**Abstract**

In many applications involving high dimensional data, we are interested in identifying sparse segments of signal in a noisy background. The signals can be copy number variation, or objects in video surveillance among others. We study the relationship between the detectability of a signal, and its shape as well as duration, and the implications of such a relationship on detection strategies.

**\*\* Refreshments will be served @2:50pm in Room 502 Hill Center \*\***