

**MICHIGAN STATE UNIVERSITY**  
Department of Statistics and Probability

## COLLOQUIUM

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### **Statistical methods for bulk and single-cell RNA-seq experiments**

Tuesday, April 28, 2015  
10:20 a.m. - 11:10 am  
Refreshments 10:00 am  
C405 Wells Hall

#### **Abstract**

I will discuss our recent statistical methods for identifying differentially expressed genes in static and time course bulk RNA-seq experiments. I will also provide an overview of the opportunities and challenges provided by single cell RNA-seq and will discuss a statistical method we have developed for characterizing gene expression dynamics and sample heterogeneity in single cell RNA-seq experiments.

*To request an interpreter or other accommodations for people with disabilities, please call the Department of Statistics and Probability at 517-355-9589.*