



**DIVISION OF STATISTICS  
NORTHERN ILLINOIS UNIVERSITY  
Colloquium**

**Dr. Yanbin Yin  
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Department of Biological Sciences  
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**TITLE:     Bioinformatics tool development for genomics research**

**DATE:     Friday September 16, 2016**

**TIME:     2:00 p.m.**

**PLACE:    DUSABLE HALL 212**

**Abstract**

Genomics is at the frontier of Genetics. Since 1990s, genomic research has produced hundreds of thousands of genomes and transcriptomes of various organisms. Analyzing these genomic data requires expertise from mathematicians, statisticians, and computer scientists, which promoted the emergence of a new scientific discipline called Bioinformatics. My research falls into the Genomics and Bioinformatics Data Science. In this talk, I will present our research on: (i) developing new bioinformatics tools to facilitate plant and microbial genomic research, and (ii) characterizing important genes and genetic elements in microbial genomes and metagenomes to enhance their biotechnological and biomedical applications.