



# **DEPARTMENT OF MATHEMATICAL SCIENCES**

## **Statistics Seminar Series**

**Zhezhen Jin**

**Columbia University**

### **Art of statistics in biomedical studies along with issues and challenges**

**ABSTRACT:** In this talk, I will present statistical issues and challenges that I have encountered in my biomedical collaborative studies of item selection in disease screening, comparison and identification of biomarkers that are more informative to disease diagnosis, identification of treatment strategy for complication and infections and mortality in bone marrow transplantation, and estimation of weights on relatively importance of exposure variables on health outcome. After a discussion on the issues and challenges with real examples, I will review available statistical methods and present newly developed methods.

**BIO:** A faculty member in the Department of Biostatistics since 2000, Dr. Jin's research interests include survival analysis, resampling methods, longitudinal data analysis, and nonparametric and semiparametric models. Dr. Jin has collaborated on research in the areas of cardiology, neurology, cancer and epidemiology. He is a co-founding editor of Contemporary Clinical Trials Communications, serves as associate editor for the Journal of American Statistical Association, Lifetime Data Analysis, Contemporary Clinical Trials, Communications for Statistical Applications and Methods, and is on the editorial board for Kidney International, journal of the International Society for Nephrology. Dr. Jin has published over 160 peer-reviewed research papers in statistical and medical journals. He is a Fellow of the American Statistical Association.

**Monday, March 11, 2019**

**11:00AM-12:00PM**

**Stratton Hall 304**