

**Indiana University-Purdue University  
Indianapolis**  
**Department of Mathematical Sciences**

STATISTICS SEMINAR

12:15pm—1:15pm, Tuesday, October 15, 2019  
LD 265

**Speaker:** **Ruohong Li**  
*Department of Biostatistics, IU School of Medicine*

**Title:** **Robust Estimation of Heterogeneous Treatment Effect  
in Observational Studies**

**Abstract:**

Because different patients may respond quite differently to the same drug or treatment, there is an increasing interest in discovering heterogeneous treatment effect (HTE). In this study, we proposed a new class of loss functions and estimators based on robust regression to estimate HTE. Compared to existing estimation methods in the literature, the new methods are more robust to outliers and can handle high-dimensional data.