

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

STATISTICS SEMINAR

12:15pm—1:15pm, Tuesday, April 26, 2022  
Zoom Meeting: Meeting ID: 845 0989 4694

**Speaker:** **Sheng Zhang**  
*Department of Mathematical Sciences, IUPUI*

**Title:** **Sample size determination using normal approximation  
and/or hoeffding's inequality**

**Abstract:**

Sample size determination for high dimensional data under normal approximation will be discussed. We will also present another approach using Hoeffding's inequality with missing factors (Talagrand, 1995). Both theoretical results and numerical studies will be presented.