

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

STATISTICS SEMINAR

12:15pm—1:15pm, Tuesday, October 02, 2018
LD 265

Speaker: **Jie Shen** (Data Scientist)
Eli Lilly and Company

Title: **Deep learning and its applications in drug discovery**

Abstract:

Deep learning has emerged as a promising machine learning method which has driven tremendous growth of artificial intelligence in the last 10 years. Significant progress and improvements have been made in computer vision, speech recognition and machine translation. In drug discovery research, deep learning have also made significant impacts. In this presentation, the fundamentals of deep learning and its building blocks will be reviewed. Some use cases of deep learning in drug discovery from pharmaceutical industry will also be introduced.