

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

STATISTICS SEMINAR

12:15pm—1:15pm, Tuesday, August 28, 2018
SL 137

Speaker: Dr. Ruiqi Liu (Postdoc)
Department of Mathematical Sciences, IUPUI

Title: Rate of convergence for ANN regression

Abstract:

Artificial Neural Network (ANN) is a relatively important model in both Statistics and Machine Learning Area. In this talk, I will give an introduction of ANN regression with one single hidden layer, which is also known as shallow learning in the Machine Learning area. Theoretical results about the approximation error of regression function with ANN and estimation error will be presented. Limitations and drawbacks of ANN regression will also be discussed.