

Statistics Seminar  
Department of Mathematical Sciences

<b>DATE:</b>	Thursday, October 8, 2020
<b>TIME:</b>	1:15pm - 2:15pm
<b>LOCATION:</b>	Zoom meeting
<b>SPEAKER:</b>	Xinhai Zhang, Binghamton University
<b>TITLE:</b>	Outcome Weighted Learning for Optimal Treatment Regimes

**Abstract**

There is increasing interest in discovering individualized treatment rules for patients who have heterogeneous responses to treatment. In particular, one aims to find an optimal individualized treatment rule which is a deterministic function of patient specific characteristics maximizing expected clinical outcome. Zhao et al. (2012) shown that estimating such an optimal treatment regime is equivalent to a classification problem where each subject is weighted proportional to his or her clinical outcome. Then they propose an outcome weighted learning (OWL) approach based on the support vector machine framework. A few other development after the original OWL will also be in this talk.

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