

Statistics Seminar  
Department of Mathematics and Statistics

<b>DATE:</b>	Thursday, April 17, 2025
<b>TIME:</b>	1:15pm - 2:40pm
<b>LOCATION:</b>	WH 100E
<b>SPEAKER:</b>	Zhongyuan Zhao, Binghamton University
<b>TITLE:</b>	On Optimality of the Shiryaev-Roberts Change-Point Detection Method in the Exponential Case

**Abstract**

We consider the classical minimax change-point detection problem where the data are exponentially distributed, and the objective is to react promptly to a possible uptick in the rate, from 1 initially to  $1+\theta$ , for  $\theta>0$ . Our ultimate goal is to show that the randomized version of the Shiryaev-Roberts change-point detection method is nearly optimal, in the sense that its detection delay is the shortest asymptotically, as the false alarm risk vanishes. We present the results we obtained to date.

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