

**Statistics Seminar**  
Department of Mathematical Sciences

<b>DATE:</b>	Thursday, September 23, 2021
<b>TIME:</b>	1:15pm - 2:15pm
<b>LOCATION:</b>	Zoom meeting
<b>SPEAKER:</b>	Shaofei Zhao, Binghamton University
<b>TITLE:</b>	Feature selection on tensor response data

**Abstract**

We have seen several feature selection approaches for ultrahigh dimensional data recently. However, most of the approaches are applicable for  $n \times 1$ , or at most  $n \times q$  response variables. If we encounter a more complex data structure when the response is tensor-shaped, e.g. human facial shape, multi-omics gene data, Electroencephalography (EEG), or functional magnetic resonance imaging (fMRI), current feature selection approaches will have difficulty to handle the data. We propose a simple yet useful feature selection method that can be applied to tensor response data, and show the selection consistency of our method.

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