## Statistics Seminar Department of Mathematical Sciences

DATE:	Thursday, September 23, 2021
TIME:	1:15pm – 2:15pm
LOCATION:	Zoom meeting
SPEAKER:	Shaofei Zhao, Binghamton University
TITLE:	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\*1, or at most n\*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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