## Data Science Seminar Hosted by Department of Mathematics and Statistics

■ Date: Tuesday, February 13, 2024

■ Time: 12:00pm - 1:00pm

■ Room: WH-100E

Speaker: Zifan Huang (Binghamton University)

• Title: Modification of the Definition of the Multidimensional Buckley-James Estimate

## **Abstract**

In the semi-parametric linear regression model  $Y=\beta'X+W$  with right-censored data, the Buckley-James estimator (BJE) of parameter  $\beta$  is the standard extension of the least squares estimator. Since the original definition of the BJE may not exist, James and Smith (1984) proposed to modify the BJE as a zero-crossing point (ZCP). The definition of the ZCP is clear for p=1, but is not clearly defined for  $p \geq 2$ . In this talk, we present our modified definition of the ZCP or the BJE for  $p \leq 2$ .

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