

**Indiana University-Purdue University  
Indianapolis**  
**Department of Mathematical Sciences**

STATISTICS SEMINAR

12:15pm—1:15pm, Tuesday, September 15, 2020  
Zoom Meeting: Meeting ID: 751 025 519

**Speaker:** **Sheng Zhang**  
*Department of Mathematical Sciences, IUPUI*

**Title:** **Asymptotics in a quadratic free-knot spline model with applications in detecting changepoints of Covid-19 data**

**Abstract:**

We prove the consistency and asymptotic normality of the least squares estimates of the parameters in a quadratic free-knot spline model under suitable conditions. We also report some results of the real data and simulations.