GRADUATE SEMINAR

Xiaoqing Zhang

A Generalized Lindley-Binomial Distribution: Properties and Estimations

PhD Student supervised by Dianliang Deng

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via Zoom

Abstract:

A new generalized Lindley-Binomial distribution with three-parameter is proposed by compounding the Binomial distribution with a three-parameter generalized Lindley distribution. In this seminar, I will present several statistical properties of this proposed distribution like the shape of the pmf, moment generating function, etc. Also the dispersion index for the proposed distribution is derived to determine whether the proposed distribution can adequately fit overdispersed or underdispersed data. I will show the simulation of random variables and use expectation-maximization algorithm to estimate parameters.

University of Regina

Mathematics and Statistics