

1135-VT-1549      **Ayman A Alzaatreh\*** (aalzaatreh@aus.edu), Sharjah, United Arab Emirates, **Indranil Ghosh**, Wilmington, NC , and **Arnold Barry**. *Family of weighted bivariate and multivariate distributions.*

Recently, weighted distributions have received widespread attention over the last two decades because of their flexibility for analyzing skewed data. In this talk, a family of weighted bivariate and multivariate weighted distribution is proposed. For illustrative purposes, some examples of the proposed method are presented. Several structural properties of the bivariate weighted distributions are studied. In addition, we provide some multivariate extensions of the proposed models. A real-life data set is used to show the applicability of the proposed method. (Received September 23, 2017)