

# Multivariate Data Analysis via Halfspace Depth

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## **Abstract**

Halfspace depth is a promising robust way to study the structure of multivariate data. In this talk I will present the connection between halfspace depth contour and directional quantile regression. I will also give a property of halfspace contour, which can be used to interpret contours in the data-analytic aspect. If time permits, some other properties will be considered as well.