Random Samples $x_i \in \mathcal{D}$, $RS = \{x_1, \ldots, x_n\} \text{ iid.}$.

Properties of RS.

Statistics of RS.

Sample mean $- \frac{1}{n} \sum_{i=1}^{n} x_i = \bar{x}$

Sample variance

Plots.

Chi-sq.
Statistical Plots

(See example code “StatPlots.r”)

- Histograms
- Empirical CDF
- Box plots
- Scatter plots