## Near-consistent robust estimations of moments for unimodal distributions

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- 1 Descriptive statistics for parametric models currently rely heavily
- 2 on the accuracy of distributional assumptions. Here, leveraging the
- 3 structures of parametric distributions and their central moment kernel
- 4 distributions, a class of estimators, consistent simultanously for both
- a semiparametric distribution and a distinct parametric distribution, is
- proposed. These efficient estimators are robust to both gross errors
- and departures from parametric assumptions, making them ideal
  for estimating the mean and central moments of common unimodal
- distributions. This article also illuminates the understanding of the
- common nature of probability distributions and the measures of them.
- turies (1), with numerous significant attempts made to control
- 4 them.
- 5 Theorem .1.
- 6 Proof.
- 1. CF Gauss, Theoria combinationis observationum erroribus minimis obnoxiae. (Henricus Bieterich), (1823).