

## Expert advice from experts

Marie Curie Nobel Prize, PhD

**Pierre Curie** Nobel Prize, PhD

Report for Acme Corporation

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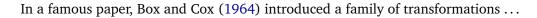
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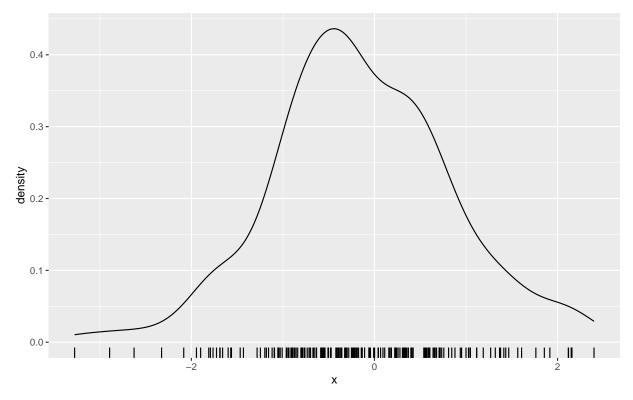






## 1 Introduction





**Figure 1:** Simulated data from a N(0,1) distribution.

Figure 1 shows a kernel density estimate of simulated data from a N(0,1) distribution. The sample variance is given by

$$s^{2} = \frac{1}{n-1} \sum_{i=1}^{n} (x_{i} - \bar{x})^{2} = 0.98.$$
 (1)

Note that Equation 1 is an unbiased estimate of the variance, but it is not the maximum likelihood estimate (Rice 2007, p.269).

## References

Box, GEP and DR Cox (1964). An analysis of transformations. *Journal of the Royal Statistical Society, Series B* **26**(2), 211–252.

Rice, JA (2007). Mathematical Statistics and Data Analysis. 3rd edition. Duxbury.