

# Sample Title for Technical Report

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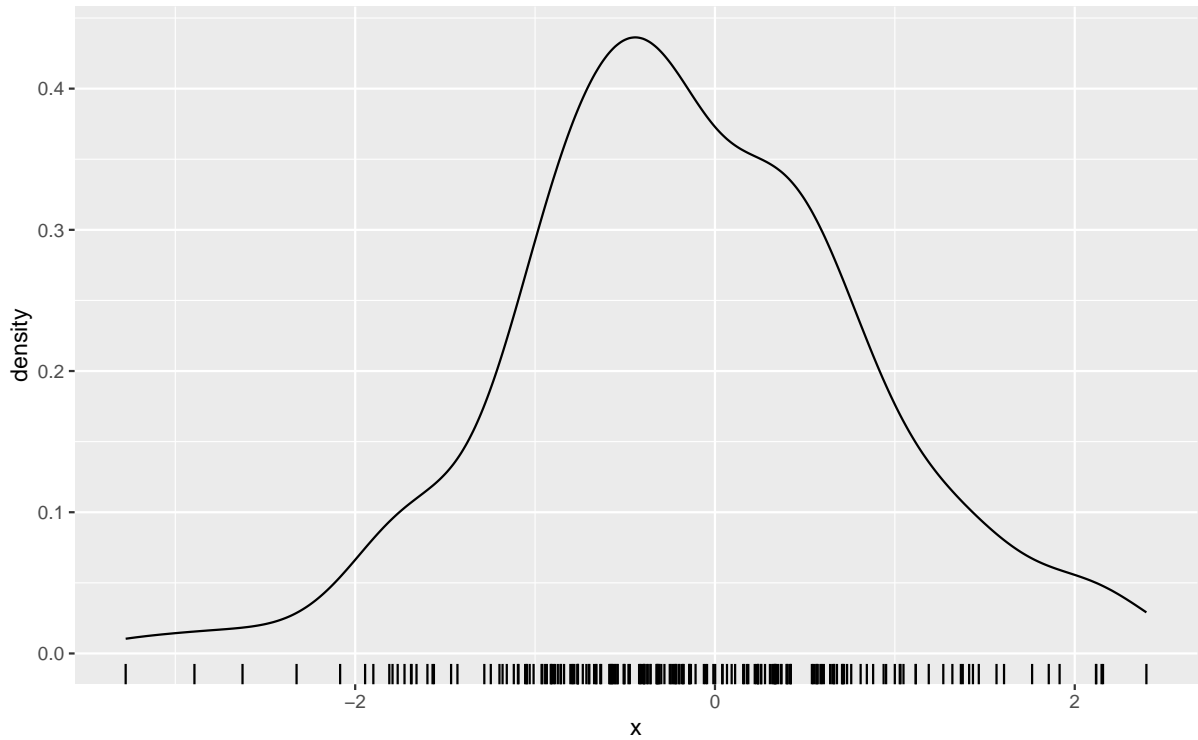
PhD

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## 1 Introduction

In a famous paper, Box and Cox ([1964](#)) introduced a family of transformations ...



**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

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

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.