

# **Nonparametric Estimation of Right-Censored Length-Biased Data: A Pseudo-Partial Likelihood Approach**

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## **Abstract**

For right-censored length-biased data, we propose a pseudo-partial likelihood approach and derive two nonparametric estimators based on it. This approach retains the simplicity of the conditional analysis with closed-form estimators and explicit limiting variances, and has only a small efficiency loss compared with the unconditional analysis. A simulation study was conducted to examine the finite-sample performance of the proposed estimators and application to a practical example is reported.