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Yong Chen* (yxc94@case.edu), Dept. of Statistics, 10900 Euclid Avenue, Case Western Reserve University, Cleveland, OH 44106. *Logspline Density Estimation with an Application to the Study of Survival Data of Lung Cancer Patients*. Preliminary report.

A Logspline method of estimating an unknown density function f based on sample data is studied. Our approach is to use maximum likelihood estimation to estimate the unknown density function from a space of splines. In the end, the method is applied to a real survival data set of lung cancer patients. (Received August 12, 2005)