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# **A study to some methods which are used for inducting the probability distributions from data about probability phenomena /**

**Mohamed Goda Khalil**

1-the most nonparametric methods can be available to define the density estimation of both husband age and wife age at first marriage. while the pearson method is the only one of parametric techniques can be used to define the estimation of both husband and wife ages at first marriage.2-the gamma distribution can be considered as afitted distribution for both husband and wife ages data.3-double exponential kernel function to density estimation of difference between husband age and wife age.The search contsists of the following chapters : chapter(1)parametric methods for density estimation, chapter(2)non-parametric methods for density estimation, chapter(3)kernel method for density estimation, chapter(4)density function for applied case using parametric, chapter(5)density function for applied case using nonparametric methods.