

# Asymptotic theory of least squares estimator of a particular nonlinear regression model

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**Abstract:** The consistency and asymptotic normality of the least squares estimator are derived for a particular non-linear regression model, which does not satisfy the standard sufficient conditions of Jennrich (1969) or Wu (1981), under the assumption of normal errors.

**Keywords:** Consistency; least squares estimator; non-linear regression.

## 1. Introduction

The least squares method plays an important role in drawing inferences about the parameters in the non-linear regression model. Jennrich (1969) first rigorously proved the existence of the least squares estimator and showed its consistency of the following non-linear model:

$$y_t = f_t(\theta_0) + \varepsilon_t, \quad t = 1, 2, \dots \quad (1.1)$$

Jennrich proved the strong consistency of the least squares estimator  $\hat{\theta}_n$  under the following assumption:  $F_n(\theta_1, \theta_2)$  converges uniformly to a continuous function  $F(\theta_1, \theta_2)$  for all  $\theta_1$  and  $\theta_2$  and  $F(\theta_1, \theta_2) = 0$  if and only if  $\theta_1 = \theta_2$ , where

$$F_n(\theta_1, \theta_2) = \frac{1}{n} \sum_{t=1}^n (f_t(\theta_1) - f_t(\theta_2))^2. \quad (1.2)$$

Under some stronger assumptions, asymptotic normality was proved in the same paper. Wu (1981) gave some sufficient conditions under which the least squares estimator converges to  $\theta_0$  almost surely, when the growth rate requirement of  $F_n$  is replaced by a Lipschitz type condition on the sequence  $f_t$ .

We consider the non-linear regression model

$$y_t = \cos(2\pi t\theta_0) + \varepsilon_t, \quad t = 1, 2, \dots, \quad (1.3)$$

where  $\{\varepsilon_t\}$  are i.i.d. normal random variables with mean zero and finite positive variance  $\sigma^2$ .  $\theta_0$  is an

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