

國立中山大學跨領域及數據科學研究中心  
國立中山大學應用數學系  
學術演講

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講 題：A general class of quasi-independence tests  
for left-truncated right-censored data

時 間：2016/12/27（星期二）14:10 ~ 15:00

地 點：理學院四樓理 SC 4009-1 室

茶 會：16:00 於理 SC 4010 室（系辦公室）

### 摘要

In survival studies, classical inferences for left-truncated data require quasi-independence, a property that the joint density of truncation time and failure time is factorizable into their marginal densities in the observable region. The quasi-independence hypothesis is testable; many authors have developed tests for left-truncated data with or without right-censoring. In this paper, we propose a class of test statistics for testing the quasi-independence which unifies the existing methods and generates new useful statistics such as conditional Spearman's rank correlation coefficient. Asymptotic properties of the proposed class of statistics are given and their finite sample properties are evaluated via simulation. The Channing House data are used to illustrate the proposed class.

敬 請 公 告！ 歡 迎 參 加！

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