



統計科學研究所

INSTITUTE OF  
STATISTICAL SCIENCE



統計所學術演講



中研院統計所

## 學術演講

講題：Pattern Graphs: a Graphical Approach to  
Nonmonotone Missing Data

講者：Prof. Yen-Chi Chen

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時間：2023年7月11日(星期二)，10:30-12:00

地點：統計所B1演講廳

### Abstract

We introduce the concept of pattern graphs--directed acyclic graphs representing how response patterns are associated. A pattern graph represents an identifying restriction that is nonparametrically identified/saturated and is often a missing not at random restriction. We introduce a selection model and a pattern mixture model formulation using the pattern graphs and show that they are equivalent. A pattern graph leads to an inverse probability weighting estimator as well as an imputation-based estimator. We also study the semi-parametric efficiency theory and derive a multiply-robust estimator using pattern graphs.

※ 實體與線上視訊同步進行。

※ 茶會：10：10開始。