中央研究院統計科學研究所
學 術 演 講

講 題：Instrumental variable methods for factorial experiments with

   complex treatment uptake

演 講 人：Prof. Nicole Pashley

   Department of Statistics, Rutgers University

時 間： 2024-07-19(Fri.) 10:30-12:00

地 點：Auditorium, B1F, Institute of Statistical Science；The tea

   reception will be held at 10:10.

備 註：Lecture in English. Online live streaming through Cisco

   Webex will be available.

Abstract

There is a well-established literature dealing with noncompliance in treatment-control designs within the potential-outcome framework for causal inference. However, generalizing to experiments with more than two treatment arms and noncompliance remains a challenge with limited exploration. The focus of this talk will be noncompliance in two-level factorial designs. The talk will discuss why this setting is so challenging, propose different assumptions to learn about relevant estimands, and explore identification and inference results under these assumptions. This is joint work with Matthew Blackwell (Harvard University).

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