統計科學研究所

INSTITUTE OF STATISTICAL SCIENCE

Seminar

Title：Estimating the health effects of interventions:

the target trial approach

Speaker：Dr. Yu-Han Chiu（邱鈺涵 博士）

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Time：4:00 PM~5:30 PM, Monday, Oct 12, 2022

Place：Auditorium, B1F, Institute of Statistical Science

Abstract

Results from randomized trials are often considered the gold standard for medical evidence. However, large randomized trials can be costly, infeasible, or untimely. Even when randomized trials are available, trial participants may not be representative of the target population. In this talk, I will present causal inference approaches to estimate the health effects of interventions in the target population. Specifically, I will describe a novel framework to emulate a target trial using observational data, which helps researchers identify and avoid unnecessary biases in observational studies. When randomized trials are available, but the trial participants are not representative of the target population, we provide a framework to extend inferences from trials to populations of substantive interest. Finally, I will describe a common and unappreciated bias that affects generalizability and transportability analyses.

※**Online live streaming through Cisco Webex will be available.**

※ **The tea reception will be held at 15:40.**