LECTURE SERIES 2026

CAUSAL INFERENCE METHODS FOR REAL-WORLD DATA

LUXEMBOURG INSTITUTE OF HEALTH | LISER Luxembourg Institute of Socio-Economic Research | uni.lu UNIVERSITÉ DU LUXEMBOURG

19 MAR 2026
Thursday

LECTURE
10.00am - 12.00pm

MEET & EAT *
Light lunch provided
Conference room – Maison des Sciences Humaines
12.00pm - 1.00pm

Causal Inference under interference: methodological challenges and some case studies

ABSTRACT

We introduce methods for studying for causal effects in settings characterized by interference, arising when the outcome of a unit (e.g., patient's infection) depends not only on their own treatment (e.g., vaccination) but also on the treatment of others (e.g., friends).

We first introduce estimands and explore identification and estimation strategies in experimental and observational settings. We then focus on important but nonstandard settings having two distinct sets of units: units to which the intervention is applied and units on which the outcomes are measured, which is called bipartite interference: treatments applied to one intervention unit can affect multiple outcome units, and the outcome of a unit may depend on the treatments applied to multiple intervention units. We illustrate the methods with some case studies

SPEAKER

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***Please note that registration for Meet and Eat is mandatory via the following link:**
https://lsurvey.lih.lu/index.php/735181?lang=en

Location:

Lecture:
Maison des Sciences Humaines
Room: ***Conference room***

11 porte des Sciences
L-4366 Esch-sur-Alzette, Luxembourg

JOIN
Event number: 2731 054 0532
Event password: NcZpJYba838
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