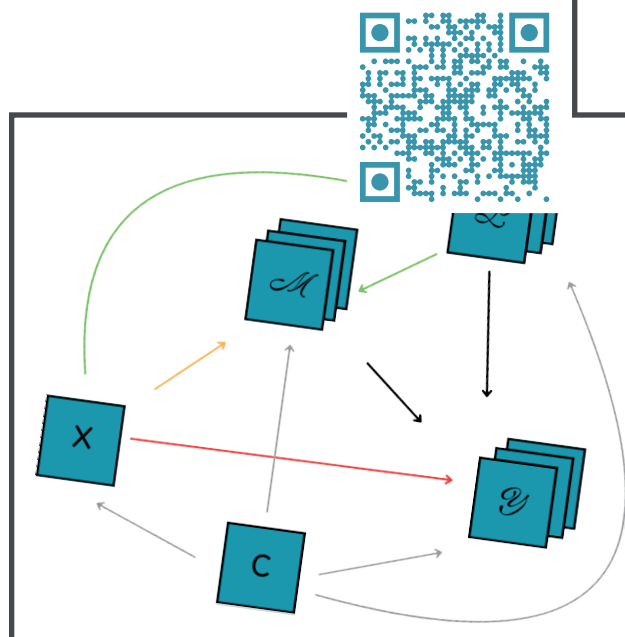# Best practices and recent advances in causal analyses

Cécile PROUST-LIMA (Inserm U1219, Bordeaux), **Yohann FOUCHER** (Université de Poitiers), **Karen LEFFONDRÉ** (Université de Bordeaux) **& Benoît LEPAGE** (Université Toulouse III - Paul Sabatier)

Give an overview of the methodologies used to address causal inference in epidemiology, starting with the causal procedure and the key concepts, and then moving on to more recent techniques dedicated to the treatment of longitudinal and large- dimension aspects.

Deadline: **January 31, 2025**

PHASE I THEORETICAL

May 5 - 7 2025

Bordeaux

INTRODUCTION TO KEY CONCEPTS IN CAUSAL INFERENCE
Els GOETGHEBEUR (Ghent University, BEL), Karen LEFFONDRÉ (INSERM U1219, FRA) & Hélène COLINEAUX (INSERM U1295, FRA)

ESTIMANDS AND ESTIMATORS
Benoît LEPAGE (INSERM U1295, FRA), Elise DUMAS (EPFL, CHE), Arthur CHATTON (Université de Montréal, CAN) & Linda VALERI (Columbia University, USA)

CAUSAL INFERENCE WITH LONGITUDINAL DATA
Raphaël PORCHER (CRESS, FRA), Jessica YOUNG (Harvard University, USA), Yohann FOUCHER (CIC 1402, FRA), Clémence LEYRAT (LSHTM, GBR) & Cécile PROUST LIMA (INSERM U1219, FRA)

CAUSAL INFERENCE IN HIGH DIMENSIONAL SETTING
Stijn VANSTEELANDT (Ghent University, BEL), Vanessa DIDELEZ (BIPS institute, DEU) & Antoine CHAMBAZ (MAP5, FRA)

PHASE II PRACTICAL

Dates to be defined

Poitiers

Participants of Phase II Expand certain core techniques of causal analysis using open-source software, in particular directed acyclic graphs for variable selection, G-computation and propensity score methods, and mediation analyses.

SELECTION: 20 trainees will be selected among Phase I participants.

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