

EUROPEAN CAUSAL INFERENCE MEETING (EuroCIM - 2020)

Causal Inference in Health, Economic and Social Sciences

April 22, 2020

<u>10:15-10:30 (CEST)</u> 9:15-9:30 (BST)	<i>Welcome and introduction</i>
<u>10:30-11:10</u> 9:30-10:10	Rhian Daniel (<i>School of Medicine, Cardiff University, UK</i>) Apples and oranges: visualising and explaining non-collapsibility
<u>11:10-11:30</u> 10:10-10:30	Aaron Sarvet (<i>Harvard School of Public Health, Department of Epidemiology, USA</i>) Proportionally-representative interventions: New Causal Estimands for Settings with Limited Resources
	---10min Break---
<u>11:40-12:00</u> 10:40-11:00	Daniel Nevo (<i>Tel Aviv University, Israel</i>) Causal inference for semi-competing risks data: estimands, partial identifiability, sensitivity analysis and models
<u>12:00-12:20</u> 11:00-11:20	Stephen Kastoryano Decomposing Causal Mechanisms in Duration Models with Unobserved Heterogeneity
<u>12:20-12:40</u> 11:20-11:40	Andrew Grant (<i>MRC Biostatistics Unit, University of Cambridge, UK</i>) An efficient and robust approach to Mendelian randomization with measured pleiotropic effects in a high-dimensional setting
<u>12:50-14:00</u> 11:50-1300	---Lunch Break---

14:00-14:20

13:00-13:20

James Doidge (*Intensive Care National Audit and Research Centre – ICNARC, UK*)

An instrumental variable approach to estimating precision in linked data

14:20-14:40

13:20-13:40

Linda Valeri (*Columbia University, USA*)

Mediation analysis when outcome and mediator are semi-competing events with application in health disparities research

14:40-15:00

13:40-14:00

Michael Sachs (*Karolinska Institutet, Department of Medical Epidemiology and Biostatistics, Sweden*)

Introducing the causaloptim R package for symbolically deriving causal bounds

---10min Break---

15:10-15:30

14:10-14:30

Iavor Bojinov (*Harvard Business School, USA*)

Panel Based Experiments and Dynamic Causal Effects: A Finite Population Perspective

15:30-15:50

14:30-14:50

Giulio Grossi (*Department of Statistics, Informatics and applications, University of Florence, Italy*)

Bayesian principal stratification with longitudinal data and truncation by death

15:50-16:10

14:50-15:10

Mats J. Stensrud (*Harvard T.H. Chan School of Public Health and University of Oslo, Norway*)

Conditional separable effects: New estimands for causal inference conditional on post-treatment variables

April 23, 2020

10:30-11:10 (CEST)

9:30-10:10 (BST)

Stijn Vansteelandt (*Department of Applied Mathematics, Computer Science and Statistics, Ghent University, Belgium*)

What makes causal inferences honest?

11:10-11:30

10:10-10:30

Ruth Keogh (*London School of Hygiene & Tropical Medicine, UK*)

Emulation of target trials to investigate causal effects of organ transplantation on survival

---10min Break---

11:40-12:00

10:40-11:00

Johannes Textor (*Radboud University Medical Center, Nijmegen, The Netherlands*)

DAGbase: a database of human-drawn causal diagrams

12:00-12:20

11:00-11:20

Ryan M. Andrews (*Leibniz Institute for Prevention Research and Epidemiology – BIPS, Germany*)

Applying the separable effects causal mediation framework to etiological questions in epidemiological research: Lessons learned and recommendations for the future

12:20-12:40

11:20-11:40

Kelly Van Lancker (*Ghent University, Belgium*)

Ensuring valid inference for the effect of a treatment on a time-to-event endpoint in Cox models with variable selection

12:50-14:00

11:50-13:00

---Lunch Break---

14:00-14:20

13:00-13:20

Leah Comment (*Giovanni Parmigiani, Harvard T.H. Chan Department of Biostatistics and Dana-Farber Cancer Institute, USA*)

But will it work for me? Personalizing randomized trial evidence with effect heterogeneity structure learned from observational data

14:20-14:40

13:20-13:40

Saskia Le Cessie and Nan van Geloven (*Department of Clinical Epidemiology and Department of Biomedical Data Science, Leiden University Medical Center, The Netherlands*)

Prediction meets causal inference: the role of treatment in clinical prediction models

14:40-15:00 (CEST) _____
13:40-14:00 (BST)

Chris Kennedy (*UC Berkeley Biostatistics, Berkeley Institute for Data Science*)

Discovering toxic exposure mixtures and ranking variable set importance via cross-validated causal inference and ensemble machine learning

---10min Break---

15:10-15:30 _____
14:10-14:30

Oliver Dukes (*Ghent University, Belgium*)

Robust double machine learning for conditional exposure effects

15:30-15:50 _____
14:30-14:50

Bianca L. De Stavola (*University College London, UK*)

Challenges in emulating target trials

15:50-16:10 _____
14:50-15:10

Karla Diaz Ordaz (*London School of Hygiene and Tropical Medicine, UK*)

Exploring heterogeneous treatment effects to inform the targeting of national health insurance programmes

16:10-16:30 (CEST) _____
15:10-15:30 (BST)

Discussion and Wrap-Up