

# EuroCIM 2023 – April 18-21, Oslo, Norway

## Program

### Tuesday April 18

**10:00—17:00 Course A: Causal inference for newcomers (L-200)**

*Rhian Daniel*

**10:00—17:00 Course B: Causal inference with competing events (Runde Auditorium)**

*Mats J. Stensrud and Jessica Young*

### Wednesday April 19

**10:00—10:10 Welcome (Runde Auditorium)**

*Jon Michael Gran*

**10:10—11:30 Target trials and estimands (Runde Auditorium)**

*Chair: Jessica Young*

10:10—10:50 I1: Target trial emulation for policy evaluation

*Bianca De Stavola*

10:50—11:10 C1: Inference procedures in target trial emulation with survival outcomes: comparison of confidence intervals based on the sandwich variance estimator and two forms of bootstrap

*Juliette Limozin*

11:10—11:30 C2: Estimand strategies for safety outcomes

*Fabrizia Mealli*

11:30—11:50 *Short break*

**11:50—12:50 Designs (Runde Auditorium)**

*Chair: Rhian Daniel*

11:50—12:10 C3: Balanced and Robust Randomized Treatment Assignments: The Finite Selection Model for the Health Insurance Experiment and Beyond

*Jose Zubizarreta*

12:10—12:30 C4: Shrinkage Estimation for Causal Inference and Experimental Design

*Evan T. R. Rosenman*

12:30—12:50 C5: Causal inference with misspecified interference structure

*Daniel Nevo*

12:50—13:50 *Lunch*

**13:50—15:10 Parallel session 1: Difference in difference and instrumental variables (Runde Auditorium)**

*Chair: Sara Geneletti*

13:50—14:10 C6: Machine Learning for Difference-in-Differences with Staggered Treatment Timing and Heterogeneous Treatment Effects

*Julia Hatamyar*

14:10—14:30 C7: Doubly robust machine learning for an instrumental variable study of surgical care for cholecystitis

*Luke Keele*

14:30—14:50 C8: Instrumental variable approaches for addressing unmeasured confounding in estimating time-varying treatment effects.

*Daniel Tompsett*

14:50—15:10 C9: Instrumental Processes Using Integrated Covariances

*Søren Wengel Mogensen*

**13:50—15:10 Parallel session 2: Causal discovery (Auditorium 13)**

13:50—14:10 C10: A Cautious Approach To Constraint-Based Causal Model Selection Based on Equivalence Tests

*Daniel Malinsky*

14:10—14:30 C11: Improving causal discovery with temporal background knowledge

*Christine Bang*

14:30—14:50 C12: A longitudinal causal graph analysis investigating modifiable risk factors and obesity in a European cohort of children and adolescents

*Ronja Foraita*

14:50—15:10 C13: Causal discovery from tail, variance or other characteristics

*Juraj Bodik*

*15:10—15:40 Break*

**15:40—17:00 Causal effect estimation (Runde auditorium)**

*Chair: Daniel Farewell*

15:40—16:20 I2: Bespoke instrumental variables for causal inference

*Oliver Dukes*

16:20—16:40 C14: Policy learning with rare outcomes and other complications

*Noemi Kreif*

16:40—17:00 C15: From data to decisions: how effects of intervening variables can guide policies

*Mats J. Stensrud*

**17:00—19:00 Poster session 1 and reception (outside Runde Auditorium)**

## Thursday April 20

### 9:00—10:40 Longitudinal causal mediation (Runde Auditorium)

- 9:00—9:40 I3: Time-dependent mediators in survival analysis  
*Odd O. Aalen*
- 9:40—10:00 C16: Causal mediation analysis with multiple time-varying mediators  
*Sheng-Hsuan Lin*
- 10:00—10:20 C17: On the Causal Interpretation of Randomized Interventional Indirect Effects  
*Caleb Miles*
- 10:20—10:40 C18: Characterizing immune correlates of protection in vaccine efficacy trials with stochastic-interventional causal effects  
*Nima Hejazi*

10:40—11:10 Break

### 11:10—12:30 Mendelian randomization and selection bias (Runde Auditorium)

- 11:10—11:30 C19: Almost exact Mendelian randomization  
*Qingyuan Zhao*
- 11:30—11:50 C20: Breaking the Winner's Curse: A method to eliminate selection bias in Two-Sample Mendelian Randomization  
*Amanda Forde*
- 11:50—12:10 C21: Bounding the selection bias  
*Stina Zetterstrom*
- 12:10—12:30 C22: The built-in selection bias of hazard ratios formalized  
*Richard Post*

12:30—13:00 Lunch

### 13:00—14:00 Poster session 2 (outside Runde Auditorium)

### 14:00—15:20 Parallel session 3: Survival and forecasting (Runde Auditorium)

*Chair: Ruth Keogh*

- 13:50—14:10 C23: A counterfactual causal model for Marked Point Processes  
*Pål Christie Ryalen*
- 14:10—14:30 C24: Unraveling exposure incidence and excess risk components of the attributable fraction of a time-dependent exposure  
*Johan Steen*
- 14:30—14:50 C25: Is there a survival benefit of initiating treatment earlier?  
*Haris Fawad*
- 14:50—15:10 C26: Losing control (group)? The Machine Learning Control Method for counterfactual forecasting  
*Fiammetta Menchetti*

**14:00—15:20 Parallel session 4: Causal effect estimation (Auditorium 13)**

*Chair: Qingyuan Zhao*

13:50—14:10 C27: Asymptotics of Caliper Matching Estimators for Average Treatment Effects

*Máté Kormos*

14:10—14:30 C28: Causal effect metrics are not equal when facing population's shifts

*Bénédicte Colnet*

14:30—14:50 C29: Using policy learning to reduce catastrophic health expenditures: an evaluation of Indonesia's JKN insurance schemes

*Vishalie Shah*

14:50—15:10 C30: A Bayesian multivariate factor analysis model for causal inference using time series observational data on mixed outcomes

*Pantelis Samartsidis*

*15:20—15:50 Break*

**15:50—16:50 Invited session (Runde Auditorium)**

*Chair: Vanessa Didelez*

15:50—16:50 I4: Causal inference with random assignment versus researcher created binary treatments

*Kenneth A. Bollen*

**19:00 Dinner at Nedre Foss Gård**

**Friday April 21**

**9:00—10:40 Estimands and overlap issues (Runde Auditorium)**

*Chair: Oliver Dukes*

9:00—9:40 I5: Separating causal methods from causal questions and target trials for unmeasured exposures

*Jessica Young*

9:40—10:00 C31: Causal Inference with Continuous Multiple Time Point Interventions

*Michael Schomaker*

10:00—10:20 C32: Stable Probability Weighting: Large-Sample and Finite-Sample Estimation and Inference Methods for Heterogeneous Causal Effects of Multivalued Treatments Under Limited Overlap

*Ganesh Karapakula*

10:20—10:40 C33: When You See Nothing At All

*Daniel Farewell*

*10:40—11:10 Break*

**11:10—12:50 Missing data and survival analysis (Runde Auditorium)**

*Chair: Noemi Kreif*

11:10—11:30 C34: Causal and counterfactual views of missing data models

*Razieh Nabi*

11:30—11:50 C35: Estimating the causal effects of multiple intermittent treatments with application to COVID-19

*Liangyuan Hu*

11:50—12:10 C36: Doubly robust g-estimation of structural nested cumulative survival time models with non-ignorable, non-monotonic missing data in time-varying confounders.

*Yoshinori Takeuchi*

12:10—12:50 I6: Risk prediction under hypothetical interventions

*Ruth Keogh*

**12:50—13:00 Closure (Runde Auditorium)**

*Vanessa Didelez*

*13:00 Lunch*