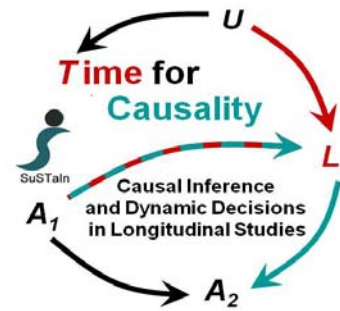


Workshop “Time for Causality – Causal Inference and Dynamic Decisions in Longitudinal Studies”



Tuesday, 10. April

10.30: *Coffee & Tea & Registration*

11.00: *Welcome*

Chair: Robin Henderson

11.15-11.55: Susan Murphy

Confidence intervals, Q-learning and dynamic treatment regimes.

12.00-12.40: James Taylor

Control system design: feedback and sequential decision making

12.45-14.00: *Lunch*

Chair: Vanessa Didelez

14.00-14.40: Damien Ernst

Learning for exploration-exploitation in reinforcement learning: The dusk of the small formulas' reign

14.45-15.05: Steven Bell

An exploration of the dynamic longitudinal relationship between mental health and alcohol consumption

15.10-15.40: *Coffee & Tea*

Chair: William Havercroft

15.40-16.00: Tibor Schuster

Parametric g-estimation of treatment effects in randomized controlled trials

16.05-16.25: Mike Campbell

Can we attribute increased autumn asthma consultations in children to the new school year?

16.30: Discussion

17.00-18.00: *Drinks Reception*

Wednesday, 11. April

Chair: Susan Murphy

9.30-10.10: Odd Aalen

Dynamic causal models

10.15-10.55: Philip Dawid

A formal treatment of sequential ignorability

11.00-11.30: Coffee & Tea

Chair: Stijn Vansteelandt

11.30-11.50: Kjetil Røysland

Martingale measures in causal inference.

11.55-12.15: Olli Saarela

The role of exchangeability in causal inference

12.20: Discussion

12.45-14.00: Lunch

Chair: Andrea Rotnitzky

14.00-14.40: Erica Moodie

Q-learning for estimating optimal dynamic treatment rules from observational data

14.45-15.05: Jon Michael Gran

A sequential Cox approach for estimating treatment effects in the presence of time-dependent confounding

15.10-16.00: Coffee & Tea & Posters

Chair: Theis Lange

16.00-16.20: Mireille Schnitzer

Targeted maximum likelihood methods for longitudinal data

16.25-16.45: Olawale Awe

On pairwise Granger-causality tests and intervention analysis of selected economic indicators in Nigeria.

Thursday, 12. April

Chair: Erica Moodie

9.30-10.10: Jonathan Sterne

Causal inference for dynamic treatment regimens: how analyses of observational data changed international guidelines on when to start antiretroviral therapy

10.15-10.55: Andrea Rotnitzky

Estimation and Extrapolation of Optimal Treatment

11.00-11.30: Coffee & Tea

Chair: Philip Dawid

11.30-12.10: James Robins

A New Philosophical Approach to Optimal Dynamic Treatments

12.15: Discussion

12.45-14.00: Lunch

Chair: Niels Keiding

14.00-14.40: Stijn Vansteelandt

Adjusting for time-varying confounders in survival analysis using structural nested cumulative failure time

14.45-15.05: Theis Lange

Using marginal structural models for nested counterfactuals to assess mediation through a longitudinal measured mediator

15.10-15.40: Coffee & Tea

Chair: Elja Arjas

15.40-16.20: Clive Bowsher

Stochastic kinetic processes: biochemical mechanisms, information and network design

16.25-16.45: Manoj Kandpal

Causal network identification in multivariate dynamic systems using genetic programming

18.30 (for 19.00): Dinner

Friday, 13. April

Chair: Robin Henderson

9.50-10.10: Jessica Barrett

Doubly robust estimation of optimal dynamic treatment regimes using
regret-regression

10.15-10.55: Susanne Rosthøj

Determination of optimal dynamic treatment regimes from incomplete data

11.00-11.30: Coffee & Tea

Chair: James Taylor

11.30-12.10: Roger Dixon

Applications of dynamic models in monitoring and fault detection

12.15-13.30: Lunch

Chair: Vanessa Didelez

13.30-14.15: Elja Arjas

Time to consider time, and time to predict!

14.15: Discussion

14.45: End of Workshop