

HORAIRE / *PROGRAM*

ATELIER SUR

**LA DÉCOUVERTE DE LA STRUCTURE CAUSALE À HAUTE
DIMENSION**

25 au 27 juin 2018

WORKSHOP ON

***DISCOVERY OF CAUSAL STRUCTURE IN HIGH
DIMENSIONS***

June 25–27, 2018

CONFÉRENCES : salle 6254 (Pavillon André-Aisenstadt)

PAUSES-CAFÉ : salle 6245 (Pavillon André-Aisenstadt)

LECTURES: *Room 6254 (Pavillon André-Aisenstadt)*

COFFEE BREAKS: *Room 6245 (Pavillon André-Aisenstadt)*

Le lundi 25 juin 2018 / *Monday, June 25, 2018*

09:00–09:30 Inscription (salle 5345) et café-croissants (salle 6245)
Registration (Room 5345) and Coffee & Croissants (Room 6245)

09:30–10:15 Yang Ning (Cornell University)
“High-Dimensional propensity score estimation via covariate balancing”

10:15–10:30 Pause-café / *Coffee break*

10:30–11:15 Denis Talbot (Université Laval)
“A Bayesian causal effect estimation algorithm for adjusting for confounding”

11:15–12:00 Arvid Sjölander (Karolinska Institutet)
“The case-time-control design. Basic theory and extensions”

12:00–13:30 Pause-déjeuner / *Lunch break*

13:30–14:15 Thomas S. Richardson (University of Washington)
“Structural nested mean models for binary treatments and outcomes”

14:15–15:00 Ali Shojaie (University of Washington)
“The reduced PC-Algorithm: Improved causal structure learning in high dimensions”

15:00–15:30 Pause-café / *Coffee break*

15:30–16:45 Nicolai Meinshausen (ETH Zürich)
“Distributional robustness from a causal point of view”

Le mardi 26 juin 2018 / Tuesday, June 26, 2018

09:00–09:30 Café croissants / *Coffee & Croissants*

09:30–10:15 Peter Schulam (Johns Hopkins University)
“Reliable decision-support using counterfactual models”

10:15–10:30 Pause-café / *Coffee break*

10:30–11:15 Julian Wolfson (University of Minnesota)
“Covariate selection with group lasso and doubly robust estimation of causal effects”

11:15–12:00 Susan Shortreed (Kaiser Permanente Washington Health Research Institute)
“Variable selection for causal inference: outcome-adaptive lasso”

12:00–13:30 Pause-déjeuner / *Lunch break*

13:30–14:15 Eric Laber (NC State University)
“Optimal treatment allocations in space and time for online control of an emerging infectious disease”

14:15–15:00 James Robins (Harvard School of Public Health)

15:00–15:30 Pause-café / *Coffee break*

15:30–16:45 Min-ge Xie (Rutgers University)
“Uncertainty quantification of treatment regime in precision medicine by confidence distributions”

Le mercredi 27 juin 2018 / Wednesday, June 27, 2018

09:00–09:30 Café croissants / *Coffee & Croissants*

09:30–10:15 Guido W. Imbens (Stanford Graduate School of Business)
“Matrix completion methods for causal panel data models”

10:15–10:30 Pause-café / *Coffee break*

10:30–11:15 Stefan Wager (Stanford University)
“Quasi-oracle estimation of heterogeneous causal effects”

11:15–12:00 Walter Dempsey (Harvard University)
“The stratified micro-randomized trial design: sample size considerations for testing nested causal effects of time-varying treatments”

12:00–13:30 Pause-déjeuner / *Lunch break*

13:30–14:15 Michael Rosenblum (Johns Hopkins Bloomberg School of Public Health)
“Estimating the protective effect of longitudinal drug concentration in pre-exposure prophylaxis for HIV prevention”

14:15–15:00 Mireille Schnitzer (Université de Montréal)
“Longitudinal variable selection in causal inference with collaborative targeted minimum loss-based estimation”

15:00–15:30 Café / *Coffee*