

Synthetic Control Methods



SYNTHETIC CONTROL METHODS

June 2-3, 2022

Friend Center 101 (<https://www.google.com/maps/place/Friend+Center+for+Engineering+Education,+William+St,+Princeton,+NJ+08540/@40.3503111,-74.6549388,17z/data=!3m1!4b1!4m5!3m4!1s0x89c3e6c2c6e8d9f9:0x997e4572848080d8!8m2!3d40.3503111!4d-74.6527501>)

Synthetic controls are widely applied to estimate the effects of policy interventions and other treatments of interests. The DataX Workshop on synthetic control methods seeks to provide an introduction to synthetic control methods for non-experts as well as an opportunity for researchers working on synthetic control methods to communicate new results, reach audiences outside their primary disciplinary fields, and seek potential collaborations. The two-day workshop will kick off with a 3-hour tutorial on synthetic control methods during the afternoon of Thursday, June 2, and Friday, June 3 will be devoted to presentations and discussion of recent research contributions.

AGENDA (</datax/datax-workshop-series/synthetic-control-methods/workshop-agenda>) | **PARTICIPANTS** (</datax/datax-workshop-series/synthetic-control-methods/workshop-speakers>) | **REGISTRATION** (</datax/datax-workshop-series/synthetic-control-methods/registration-0>)

Face Coverings are Required.

Workshop Organizers

Alberto Abadie

Massachusetts Institute of Technology

Matias Cattaneo

Princeton University

Sponsors

We gratefully acknowledge financial support from the Schmidt DataX Fund at Princeton University made possible through a major gift from the Schmidt Futures Foundation and our Princeton University partners:



Workshop Agenda

THURSDAY, JUNE 2

1:00 pm - 1:30 pm

Registration

1:30 pm - 2:30 pm

Tutorial on SC Methods: Part I

Alberto Abadie
(MIT)

2:30 pm - 2:50 pm

Coffee Break

2:50 pm - 3:50 pm

Tutorial on SC Methods: Part II

Devavrat Shah
(MIT)

3:50 pm - 4:05 pm

Coffee Break

4:05 pm - 4:10 pm

Conference Opening Remarks

SESSION 1: Regina Liu (Rutgers), Session Chair

4:10 pm -

A Design Based Perspective on Synthetic Control
Methods

Guido Imbens
(Stanford)

4:40 pm

4:40 pm -

Synthetic Control Methods: A Generative Machine
Learning Perspective

Uros Seljak (Berkeley)

5:10 pm

5:30 pm -

General reception with participants

6:30 pm

7:00 pm -

Conference dinner (by invitation only)

9:00 pm

FRIDAY, JUNE 3

8:00 am - 8:30

am

Breakfast

SESSION 2: Hongyu Zhao (Yale), Session Chair

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8:30 am - 9:00 am	Causal Matrix Completion (virtual session)	Anish Agarwal (MIT)
9:00 am - 9:30 am	Statistical Inference for the Factor Model Approach to Estimate Causal Effects in Quasi-Experimental Settings (virtual session)	Kathleen Li (UT Austin)
9:30 am - 10:00 am	Uncertainty Quantification in Synthetic Controls with Staggered Treatment Adoption (virtual session)	Yingjie Feng (Tsinghua)
10:00 am - 10:30 am	<i>Coffee Break</i>	

SESSION 3: Rocio Titiunik (Princeton), Session Chair

10:30 am - 11:00 am	Theory for Identification and Inference with Synthetic Controls: A Proximal Causal Inference Framework	Eric Tchetgen Tchetgen (UPenn)
11:00 am - 11:30 am	Information Criteria and Degrees of Freedom for the Synthetic Control Method (with Zhen Xie)	Guillaume Pouliot (Chicago)
11:30 am - 12:00 pm	Randomization-Based Inference for Synthetic Control Estimators (joint with David Hirshberg)	Dmitry Arkhangelsky (CEMFI)

SESSION 4: Xu Cheng (UPenn), Session Chair

1:30 pm - 2:00 pm	Synthetic learner: model-free inference on treatments over time	Jelena Bradic (UC San Diego)
2:00 pm - 2:30 pm	Synthetic Interventions	Dennis Shen (Berkeley)
2:30 pm - 3:00 pm	Synthetic Controls for Experimental Design	Jinglong Zhao (BU)
3:00 pm - 3:30 pm	<i>Coffee Break</i>	

SESSION 5: Matias Cattaneo (Princeton), Session Chair

3:30 pm - 4:00 pm	Off-Policy Evaluation in Partially Observed Markov Decision Processes	Stefan Wager (Stanford)
4:00 pm - 4:30 pm	On the Assumptions of Synthetic Control Methods	David Blei (Columbia)

SESSION 5: Matias Cattaneo (Princeton), Session Chair

Conference Closing Remarks

