

FORC 2023 Program

June 7, 2023

9:15-10:15: Keynote: Sebastien Bubeck

10:45-12:15: Session 1

Concurrent Composition Theorems for Differential Privacy.
Xin Lyu, Salil Vadhan and Wanrong Zhang

The Price of Differential Privacy under Continual Observation.
Palak Jain, Sofya Raskhodnikova, Satchit Sivakumar and Adam Smith.

Differentially Private Aggregation via Imperfect Shuffling.
Badih Ghazi, Ravi Kumar, Pasin Manurangsi, Jelani Nelson and Samson Zhou.

Node-Differentially Private Estimation of the Number of Connected Components.
Iden Kalemaj, Sofya Raskhodnikova, Adam Smith and Charalampos Tsourakakis.

2:00-3:10: Session 2

On-Demand Sampling: Learning Optimally from Multiple Distributions.
Nika Haghtalab, Michael Jordan and Eric Zhao.

Distributionally Robust Data Join.
Pranjal Awasthi, Christopher Jung and Jamie Morgenstern.

Diagnosing Model Performance Under Distribution Shift.
Tiffany Cai, Hongseok Namkoong and Steve Yadowsky.

3:50-5:00: Session 3

Multiplicative Metric Fairness Under Composition.
Milan Mossé.

Group fairness in dynamic refugee assignment.
Daniel Freund, Thodoris Lykouris, Elisabeth Paulson, Bradley Sturt and Wentao Weng.

Multicalibration as Boosting for Regression.
Ira Globus-Harris, Declan Harrison, Michael Kearns, Aaron Roth and Jessica Sorrell.

June 8, 2023

9:15-10:15: Keynote: Kristian Lum

10:45-12:15: Session 4

From the Real Towards the Ideal: Risk Prediction in a Better World.
Cynthia Dwork, Omer Reingold and Guy Rothblum.

New Algorithms and Applications for Risk-Limiting Audits.
Bar Karov and Moni Naor.

Fair Grading Algorithms for Randomized Exams.
Jiale Chen, Jason Hartline and Onno Zoeter.

Resistance to Timing Attacks for Sampling and Privacy Preserving Schemes.
Yoav Ben Dov, Liron David, Moni Naor, and Elad Tzalik.

2:00-3:10: Session 5

Fair Correlation Clustering in Forests.
Katrin Casel, Tobias Friedrich, Martin Schirneck and Simon Wietheger.

Recommending to Strategic Users.
Andreas Haupt, Dylan Hadfield-Menell and Chara Podimata.

Accounting for Stakes in Democratic Decisions.
Bailey Flanigan, Ariel Procaccia and Sven Wang.

3:50-5:00 Poster Session for all papers (optional)

June 9, 2023

9:15-10:15: Keynote: Kobbi Nissim

10:45-12:15: Session 6

Screening with Disadvantaged Agents.
Hedyeh Beyhaghi, Modibo Camara, Jason Hartline, Aleck Johnsen and Sheng Long.

Setting Fair Incentives to Maximize Improvement.

Saba Ahmadi, Hedyeh Beyhaghi, Avrim Blum and Keziah Naggita.

Bidding Strategies for Proportional Representation in Advertisement Campaigns.

Inbal Livni Navon, Charlotte Peale, Omer Reingold and Judy Hanwen Shen.

An Algorithmic Approach to Address Course Enrollment Challenges.

Arpita Biswas, Yiduo Ke, Samir Khuller and Quanquan C. Liu.

2:00-3:10: Session 7

Stability is Stable: Connections between Replicability, Privacy, and Adaptive Generalization.

Mark Bun, Marco Gaboardi, Max Hopkins, Russell Impagliazzo, Rex Lei, Toniann Pitassi, Satchit Sivakumar and Jessica Sorrell.

From Robustness to Privacy and Back.

Hilal Asi, Jonathan Ullman and Lydia Zakyntinou.

Fast, Sample-Efficient, Affine-Invariant Private Mean and Covariance Estimation for Subgaussian Distributions.

Gavin Brown, Samuel Hopkins and Adam Smith.

3:50-5:00: Session 8

Control, Confidentiality, and the Right to be Forgotten.

Aloni Cohen, Adam Smith, Marika Swanberg and Prashan Nalini Vasudevan.

Forget Unlearning: Towards True Data-Deletion in Machine Learning.

Rishav Chourasia and Neil Shah.

Ticketed Learning–Unlearning Schemes.

Badih Ghazi, Pritish Kamath, Ravi Kumar, Pasin Manurangsi, Ayush Sekhari and Chiyuan Zhang.