

Statistical and Learning-Theoretic Challenges in Data Privacy

Monday February 22, 2010

- 8:00–8:45 *Check-In/Light Breakfast (Hosted by IPAM)*
- 8:45–9:00 *Welcome and Opening Remarks*
- 9:00–9:40 **Cynthia Dwork** (Microsoft Research)
- 9:40–10:15 **Adam Smith** (Pennsylvania State University)
- 10:15–10:45 *Break*
- 10:45–12:00 **Larry Wasserman** (Carnegie-Mellon University)
Tutorial on Theoretical Statistics
- 12:00–2:00 *Lunch (on your own)*
- 2:00–2:45 **Kunal Talwar** (Microsoft Research)
On the Geometry of Differential Privacy
- 2:55–3:10 *Break*
- 3:10–3:55 **Frank McSherry** (Microsoft Research)
Differential Privacy and Probabilistic Inference
- 4:00–12:00 *Refreshments at CNSI Auditorium*
- 4:30–5:30 *Public Lecture by David Gross at CNSI Auditorium*
- 5:30–7:00 *Reception in the IPAM building immediately following the lecture*

Tuesday February 23, 2010

- 8:00–9:00 *Continental Breakfast*
- 9:00–10:15 *Tutorial - Martin Wainwright*
- 10:15–10:40 *Break*

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- 10:40–11:25 **Vitaly Shmatikov** (University of Texas at Austin)
Airavat: Security and Privacy for MapReduce
- 11:35–12:20 **Kamalika Chaudhuri** (University of California, San Diego (UCSD))
Privacy-preserving Classification
- 12:30–2:00 *Lunch (on your own)*
- 2:00–2:45 **Bradley Malin** (Vanderbilt University)
Estimating Re-identification Risks in the Context of Population-Based Statistics
- 2:55–3:10 *Break*
- 3:10–3:55 **John Abowd** (Cornell University)
Formal Privacy Guarantees and Analytical Validity of OnTheMap Public-Use Data
- 4:10–4:25 *Break*
- 4:25–5:10 **Jerry Reiter** (Duke University)
Reconciling Confidentiality Risk Measures from Statistics and Computer Science

Wednesday February 24, 2010

- 8:00–9:00 *Continental Breakfast*
- 9:00–9:45 **Xiaofeng Wang** (Indiana University)
- 9:55–10:10 *Break*
- 10:10–10:55 **Sofya Raskhodnikova** (Pennsylvania State University)
What Can We Learn Privately?
- 11:05–11:20 *Break*
- 11:20–12:05 **Kobbi Nissim** (Ben Gurion University of the Negev)
- 12:15–2:00 *Lunch (on your own)*
- 2:00–2:45 **Ravi Kumar** (Yahoo! Research)
Query Logs and User Privacy
- 2:55–3:10 *Break*
- 3:10–3:55 **Jiashun Jin** (Carnegie-Mellon University)
- 4:10–4:25 *Break*

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- 4:25–5:10 **Adam Smith** (Pennsylvania State University)
Rump Session: Short Presentations of Posters
- 5:20–7:00 *Poster Session & Reception (Hosted by IPAM)*

Thursday February 25, 2010

- 8:00–9:00 *Continental Breakfast*
- 9:00–9:45 **Daniel Kifer** (Pennsylvania State University)
Towards an Axiomatization of Privacy and Utility
- 9:55–10:10 *Break*
- 10:10–10:55 **Adam Smith** (Pennsylvania State University)
- 11:05–11:20 *Break*
- 11:20–12:05 **Stephen Fienberg** (Carnegie-Mellon University)
- 12:15–2:00 *Lunch (on your own)*
- 2:00–2:45 **Natalie Shlomo** (University of Southampton)
Privacy Protection from Sampling and Perturbation in Surveys
- 2:55–3:10 *Break*
- 3:10–3:55 **Moni Naor** (Weizmann Institute of Science)
- 4:10–4:25 *Break*
- 4:25–5:10 **Aleksandra Slavkovic** (Pennsylvania State University)
Differential privacy and statistical hypothesis testing

Friday February 26, 2010

- 8:00–9:00 *Continental Breakfast*
- 9:00–9:45 **Salil Vadhan** (Harvard University)
Computational Complexity in Differential Privacy
- 9:55–10:10 *Break*

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10:10–10:55 **Yuval Nardi** (Technion - Israel Institute of Technology)
Secure Logistic Regression with Distributed Databases

11:05–11:20 *Break*

11:20–12:05 **Cynthia Dwork** (Microsoft Research)

12:15–2:00 *Lunch (on your own)*

2:00–4:00 **Adam Smith** (Pennsylvania State University)
Impromptu Session and Wrap-up Discussion

