

Join us for this talk in the Seminar Series: Mathematics of Ethical Decision-making Systems

Thursday, August 25, 2022
Talk @ 3:30 pm
Followed by reception @ 4:30 pm

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Statistical Estimation with Differential Privacy

Naively implemented, statistical procedures are prone to leaking information about their training data, which can be problematic if the data is sensitive. Differential privacy, a rigorous notion of data privacy, offers a principled framework to dealing with these issues. I will survey recent results in differential private statistical estimation, presenting a few vignettes which highlight novel challenges for even the most fundamental problems, and suggesting solutions to address them. Along the way, I'll mention connections to tools and techniques in a number of fields, including information theory and robust statistics.