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Colloquium Series

Keeping it safe: privacy-protecting data sharing for AI



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Date: Monday, Nov 20th, 2023

Time: 10am-11am

Location: Moore Building 331

Abstract:

Sharing individually contributed data is a cornerstone of modern artificial intelligence. For example, large language models (LLMs) were trained on hundreds of billion tokens scraped from the internet. However, the data generated by individual users contain sensitive information, the disclosure of which may incur serious privacy concerns. In this talk, I will discuss my research efforts to enable broad data sharing, while protecting individual privacy. I will present a series of studies to show that my work provides rigorous, provable privacy guarantees while retaining the utility of the data. Towards the end, I will talk about future research opportunities in privacy-protecting artificial intelligence.

Biography:

Dr. Liyue Fan is an Assistant Professor in Computer Science at UNC Charlotte. Her research is at the intersection of data privacy and artificial intelligence. Her recent publications discuss topics in differential privacy, deep learning, generative adversarial networks, and applications in computer vision, geospatial big data, and health informatics. She is a recipient of an NSF CAREER award and was named a "Rising Star in EECS" by MIT.