



**THE CHINESE UNIVERSITY OF HONG KONG**  
Department of Information Engineering  
*Seminar*

**Collecting Sensitive Data with Local Differential Privacy**  
by  
**Mr. Tianhao WANG**  
Department of Computer Science  
Purdue University

**Date** : 27<sup>th</sup> January, 2021 (Wednesday)

**Time** : 9:30am – 10:30am

**Zoom** : <https://cuhk.zoom.us/j/93157759945>

(Meeting ID: 931 5775 9945; Passcode: 087921)

Abstract

When collecting information, local differential privacy (LDP) relieves users' privacy concerns, as it adds noise to users' private information. The LDP technique has been deployed by Google, Apple, Microsoft, and Alibaba for data collection. In this talk, I will share our research on the basic primitives for LDP and a system that can handle analytical queries under LDP.

Biography

Tianhao Wang is a Ph.D. candidate in the department of computer science, Purdue University, advised by Prof. Ninghui Li. He received his B.Eng. degree from software school, Fudan University in 2015. His research interests include differential privacy and applied cryptography. He is a member of DPSyn, which won the second-place award six times in differential privacy competitions. He is a recipient of the Bilsland Dissertation Fellowship and the Emil Stefanov Memorial Fellowship.

**\*\* ALL ARE WELCOME \*\***