

Yuhan Liu

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About Me

I am currently a Ph.D. candidate in the School of Information at [Renmin University of China \(RUC\)](#). I am super lucky to be advised by [Prof. Hong Chen](#) in the [Key Laboratory of Data Engineering and Knowledge Engineering \(DEKE\)](#) at RUC. After a year of research internship supervised by [Dr. Sheng Wang](#) at Alibaba DAMO Academy, I was extremely fortunate to be a visiting student studying under the supervision of [Prof. Yves-Alexandre de Montjoye](#) in the [Computational Privacy Group \(CPG\)](#) at Imperial College London. Before that, I spent four splendid years at Xiamen University (XMU) as an undergraduate.

Education

BS	Xiamen University , Computer Science	Sept. 2015 – June 2019
	<ul style="list-style-type: none"> • GPA: 3.6/4.0, Distinguished Graduate • Coursework: Data structure, Algorithm, Machine Learning, Linear Algebra, Statistics 	
Ph.D	Renmin University of China , Big data engineering	Sept. 2019 - June 2025
	<ul style="list-style-type: none"> • GPA: 3.9/4.0 • Research interests: Data privacy, Differential Privacy, Privacy attacks, Private machine learning 	
Visit	Imperial College London , Data privacy	Oct. 2023 - Oct.2024
	<ul style="list-style-type: none"> • Project: Membership inference attacks against differentially private location aggregates. 	

Experience

DAMO Academy, Alibaba Group, Research Intern	Beijing, China
<ul style="list-style-type: none"> • Project: Differentially private crowd selection • Achievement: Research paper published at VLDB 	June 2023 - Aug. 2024

Publications

Sub-optimal Learning in Meta-Classifier Attacks: A Study of Membership Inference on Differentially Private Location Aggregates	S&P'2025 (Under review)
<i>Yuhan Liu</i> , Florent Guepin, Igor Shilov	
Unleash the Power of Ellipsis: Accuracy-enhanced Sparse Vector Technique with Exponential Noise	VLDB'2025
<i>Yuhan Liu</i> , Sheng Wang, Yixuan Liu, Feifei Li, Hong Chen	
Enhanced Privacy Bound for Shuffle Model with Personalized Privacy	CIKM'2024
<i>Yixuan Liu</i> , <i>Yuhan Liu</i> , Li Xiong, Yujie Gu, Hong Chen	
Edge-Protected Triangle Count Estimation Under Relationship Local Differential Privacy	TKDE'2024
<i>Yuhan Liu</i> , Tianhao Wang, Yixuan Liu, Hong Chen, Cuiping Li	
Echo of Neighbors: Privacy Amplification for Personalized Private Federated Learning with Shuffle Model	AAAI'2023
<i>Yixuan Liu</i> , Suyun Zhao, Li Xiong, <i>Yuhan Liu</i> , Chong Chen	

Collecting Triangle Counts with Edge Relationship Local Differential Privacy ↗

ICDE'2022

Yuhan Liu, Suyun Zhao, Yixuan Liu, Dan Zhao, Hong Chen, Cuiping Li**State-of-the-Art Privacy Attacks and Defenses on Graphs**

CJC'2022

Yuhan Liu, Hong Chen, Yixuan Liu, Dan Zhao, Cuiping Li**Privacy-preserving Techniques in Federated Learning**

JoS'2022

Yixuan Liu, Hong Chen, *Yuhan Liu*, Cuiping Li**Skills**

Coding Languages: C++, C, Python**Languages:** English (fluent)