

# 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

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

## Experience

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

## Publications

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

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**Coding Languages:** C++, C, Python

**Languages:** English (fluent)