# Mengling Liu

https://mengling-l.github.io/ | https://github.com/MengLing-L

#### **Education**

The Hong Kong Polytechnic University	2023 – Current
• Ph.D. Student in Computing	
• Advisor: Prof. AU Man Ho Allen	
The University of Hong Kong	2020 - 2022
M.S. in Electronic Commerce and Internet Computing	
• Advisor: Prof. AU Man Ho Allen	
Chongqing University of Posts and Telecommunications	2012 - 2016
• B.S. in Computer Science	
Work Experience	
Research Assistant, The University of Hong Kong, Department of Computer Science	2022
<b>Engineer</b> , Tencent Technology (Shenzhen) Co.Ltd, Department of Advertising	2016 - 2020
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## **Publications**

- Mengling Liu, Yang Heng, Xingye Lu, Man Ho Au. JesseQ: Efficient Zero-Knowledge Proofs for Circuits over Any Field, S&P 2025
- Zhikang Xie, **Mengling Liu**, Haiyang Xue, Man Ho Au, Robert H. Deng, Siu-Ming Yiu. Direct Range Proofs for Paillier Cryptosystem and Their Applications, **CCS 2024**
- Haiyang Xue, Man Ho Au, **Mengling Liu**, Kwan Yin Chan, Handong Cui, Xiang Xie, Tsz Hon Yuen, Chengru Zhang. Efficient multiplicative-to-additive function from Joye-Libert cryptosystem and its application to threshold ECDSA, **CCS 2023**
- Xiao Yang, **Mengling Liu**, Man Ho Au, Xiapu Luo, Qingqing Ye. Efficient verifiably encrypted ECDSA-like signatures and their applications, **TIFS 2022**

## **Research Competition**

## ZPrize 23/24: High Throughput Signature Verification. (250,000 USD Cash Award)

• Compiling the ECDSA signature verification process as a circuit in Varuna.

#### ZPrize 22/23: PLONK-DIZK GPU Acceleration. (550,000 USD Cash Award)

• Enhancing Plonk with GPU acceleration and distribution.

## Internship

Engineer, Alibaba Group Holding Ltd, Department of Taobao	2016
Engineer, Tencent Technology (Shenzhen) Co.Ltd, Department of	2015
Advertising	