

Liangqin Ren

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EDUCATION

University of Kansas <i>Ph.D. in Computer Science, advised by Professor Fengjun Li and Bo Luo</i>	Aug 2021 – Jul 2026 (Expected)
University of Chinese Academy of Sciences <i>M.Eng. in Computer Technology</i>	Aug 2017 – Jul 2020
Shandong University of Science and Technology <i>B.Eng. in Network Engineering</i>	Aug 2013 – Jul 2017

PUBLICATIONS

- **Liangqin Ren**, Zeyan Liu, Fengjun Li, Kaitai Liang, Zhu Li, and Bo Luo. PrivDNN: A Secure Multi-Party Computation Framework for Deep Learning using Partial DNN Encryption. In the 24th Privacy Enhancing Technologies Symposium (PETS), Bristol, UK, 2024.
- X. Xu, Q. Cai, J. Lin, S. Pan and **L. Ren**. Enforcing Access Control in Distributed Version Control Systems. 2019 IEEE International Conference on Multimedia and Expo (ICME), Shanghai, China, 2019.
- **Liangqin Ren**, Wei Wang, Qiong Xiao Wang, Linli Lu. A New Cloud Cryptographic Computing Platform Architecture and Implementation[J]. Netinfo Security, 2019, 19(9): 91-95.

SERVICES

External Reviewer: International Conference on Distributed Computing Systems (ICDCS)	2024
External Reviewer: International Conference on Dependable Systems and Networks (DSN)	2024
Moderator: International Conference on Security and Privacy in Communication Networks (SecureComm)	2022

PROJECT EXPERIENCE

Secure Multi-Party Computing Framework with Partial Homomorphic Encryption • Implemented four schemes for core neuron selection on five datasets. • Implemented frameworks protecting models with homomorphic encryption based on core neuron selection. • Demonstrated protection robustness against malicious clients and servers.	Jan 2022 – Feb 2024
Protect Portrait Privacy against DeepFake • Designed the GAN-based protection generator against DeepFake. • Improved protection generator model with neural architecture search. • Demonstrated protection robustness against three kinds of DeepFake attacks.	Feb 2024 – Present
Create and Detect Images Generated by AIGC • Implemented scripts to generate AIGC pictures in five fields.	Oct 2023 – Present

EMPLOYMENT HISTORY

University of Kansas , Graduate Teaching Assistant • Taught labs, guided projects, and grade for EECS 348 (448) Software Engineering.	Spring & Fall, 2022 – 2024
University of Kansas , Graduate Research Assistant • Worked on projects about machine learning security.	Summer, 2021 – 2023
Baidu Corporation , Software Development Intern • Developed Baidu translation software development kits for mobile devices. • Developed cross-compilation framework between X86 and embedding platforms.	Jan – May, 2021

HONORS AND REWARDS

CANSec Travel Grant Award	2022
Honors Graduate (Rank 1/48), Shandong University of Science and Technology	2017

SKILLS

Languages: C/C++, Python
Frameworks: PyTorch