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Research Interests: Security and Privacy, Artificial Intelligence, Data Science

EDUCATION

M.Eng., Shanghai Jiao Tong University (SJTU, Project 985), Shanghai, China

- Major: Cyberspace Security (Exam-exempted)
- Supervisor: Prof. Jianhua Li, Institute of Cyber Science and Technology
- Lab: National Engineering Research Center for Information Content Analysis Technology (NERCICAT)
- Dissertation: Research on Cyber Security Threat Sensing and Intelligence Endogenization Based on Multisource Heterogeneous Data
- GPA: 3.70/4.0

B.Eng., Xidian University (XDU, Project 211), Xi'an, Shaanxi, China

- Major: Cyberspace Security (Experimental Class)
- Supervisor: Associate Prof. Ning Zhang and Prof. Hui Li, School of Cyber Engineering
- Dissertation: A Real-time Intelligent Detection System for Malicious Network Traffic Based on Deep Learning (Outstanding Thesis Award)
- GPA: 3.9/4.0 (Rank: 1/40)

SELECTED AWARDS

2021 • The First Prize Scholarship of SJTU (Top 10%)

- 2021 Outstanding Graduate of Shaanxi (Top 1%)
- 2021 Outstanding Graduate of XDU (Top 1%)
- 2021 Outstanding Thesis Award of XDU (Top 1%) 2018 • National Scholarship, China (Top 1%)

2020 • The Second Prize Scholarship of XDU (Top 15%) 2018 • Special Scholarship of XDU (Top 1%)

INTERNSHIP

CIS (Cybersecurity Intelligence System) Development • Intern, Security Intelligence Development Department

• Addressing data consistency challenges in Big Data Platform

Security Component Adaptation Based on SM Algorithm

- Intern, Cyber Security Department
- Enhancing the support for Chinese National Cryptographic Algorithms

PUBLICATIONS AND INVITED TALKS

HiSec: Towards Cyber Threat Discovery and Correlation Based on Hierarchical Graph Neural Network

Liwen Xu, Xiang Lin, Jianhua Li, Min Bai, Liejun Wang (Accepted) The 22nd IEEE International Conference on Trust, Security and Privacy in Computing and Communications (TrustCom-2023)

Cloud Asset Security Analysis based on Hierarchical Graph Neural Network (Accepted)

ZHANG Yilian, ZHOU Diqing, XU Liwen, YE Tianpeng, LIN Xiang

Personalized Lightweight Distributed Network Intrusion Detection System in Fog Computing (Published)

YE Tianpeng, LIN Xiang, LI Jianhua, ZHANG Xuankai, XU Liwen

Localized Intelligence Production and Threat Discovery Based on Unknown Cyberattacks Discovery Using Endogenous Data (Talks)

<u>Liwen Xu</u>

The Wuhan Cybersecurity Innovation Forum, 2023, China

Chinese Journal of Network and Information Security

PATENTS

Anomaly Detection Method for Cloud Based on Graph Neural Network (App No. 202210956849.0, Under Review) Compression Method of Deep Learning Model for Intrusion Detection (App No. 202210956842.9, Under Review) Detection Method Based on Hierarchical Graph Neural Network (App No. 202311517251.2, Under Review) Graph Modeling for Security Semantics of Critical Infrastructure (App No. 202311433049.1, Under Review)

Jun 2019 - Aug 2019

2019 • Special Prize of National Crypto Competition (Top 1)

2019 • National Scholarship, China (Top 1%)

2019 • Special Scholarship of XDU (Top 1%)

Jun 2020 - Aug 2020

Journal of Cyber Security, China

Huawei Technologies Co., Ltd.

Hikvision Digital Technology Co., Ltd.

Sep 2017 - Jun 2021

Sep 2021 - Mar 2024

RESEARCH PROJECTS

Sep 2022 - Oct 2023 very Based on Network Endogenous
lential) Jul 2022 - Jun 2023
ential) Sep 2021 - Present
ty Sep 2021 - Present Sub-Platform
Sep 2021 - Jan 2023 anghai
Sep 2020 - May 2021 Traffic Based on Deep Learning system, leveraging the Storm big
May 2019 - Nov 2019 orithm ed to Chinese National of the SM3 and SM4 algorithms.
Shanghai Jiao Tong University Every Semester
Shanghai Jiao Tong University Nov 2022 – Jun 2023
Tuesday, 3 January 2023

	Listening	Reading	Writing	Speaking	Overall
	8.5	9.0	6.5	6.5	7.5

OVERSEAS EXPERIENCE

Advanced Cybersecurity Workshop

- Location: Nanyang Technological University (NTU), Singapore
- Instructor: Prof. Lam Kwok Yan

RELEVANT SERVICES

National Middle School Student Cyber Security Competition

- Guiding Unit: Teaching Steering Committee of Cyberspace Security in the Ministry of Education
- Sponsor: Office of Shaanxi Provincial Internet Information & Xidian University
- Role: Sponsor's Head of Students

Chang'an Cup Electronic Data Forensics Competition

- Sponsor: Xidian University
- Role: Sponsor's Head of Students

CHINACRYPT 2019

- Organizer: Chinese Association for Cryptologic Research (CACR)
- Role: Volunteer

Nov 2019

Jan 2019

2019 - 2021 (Annually)

2019 - 2021 (Annually)