Zhou **Zhang**

Ph.D. Student

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Education

Beihang University — *Beijing, China*

Ph.D. in Cyber Science and Technology — *Sep. 2021 - Now*

- Fields: Applied Cryptography, Fully Homomorphic Encryption
- Got outstanding freshman scholarship and merit student awards

Beihang University — *Beijing, China*

B.S. in Cyber Science and Technology — *Sep. 2017 - Jun. 2021*

- Got outstanding graduates awards, merit student awards, and national scholarship

Publications

- Song Bian, Zian Zhao, **Zhou Zhang**, Ran Mao, Kohei Suenaga, Yier Jin, Zhenyu Guan, and Jianwei Liu, HEIR: A Unified Representation for Cross-Scheme Compilation of Fully Homomorphic Computation, Network and Distributed System Security Symposium (NDSS), February 2024
- Song Bian[1], **Zhou Zhang**[1], Haowen Pan, Ran Mao, Zian Zhao, Yier Jin, and Zhenyu Guan, HE3DB: An Efficient and Elastic Encrypted Database Via Arithmetic-And-Logic Fully Homomorphic Encryption, ACM Conference on Computer and Communications Security (CCS), November 2023
- Guan Zhenyu, Jing Junpeng, Deng Xin, Xu Mai, Jiang, Lai, **Zhang Zhou** and Li Yipeng, DeepMIH: Deep Invertible Network for Multiple Image Hiding, IEEE Transactions on Pattern Analysis and Machine Intelligence (IEEE TPAMI), January 2023

Honors & Awards

International

2023	**Distinguished Paper Award**, ACM Conference on Computer and Communication Security (ACM CCS)	*Copenhagen, Denmark*
2018	**Honorable Mention**, Mathematical Contest In Modeling	*USA*

Domestic

2023,2017	**Merit Student**, Beihang University	*China*
2021	**Outstanding Graduates Awards**, Beihang University	*Beijing, China*
2020	**National Scholarship**, Ministry of Education of the People's Republic of China	*China*
2019	**First Prize**, National College Student Information Security Contest	*Jiangsu, China*
2019	**First Prize**, The Chinese Mathematics Competitions	*Beijing, China*

Presentation

ACM Conference on Computer and Communication Security (ACM CCS) — *Copenhagen, Denmark*

Presenter for <HE3DB: An Efficient and Elastic Encrypted Database Via Arithmetic-And-Logic Fully Homomorphic Encryption> — *Nov. 2023*

- Introduced our work about a fully homomorphically encrypted, efficient and elastic database framework.

Skills

Programming C++, Python, SQL, LaTeX

Languages Chinese, English