

Xinlei He — CV

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Education

CISPA Helmholtz Center for Information Security

Ph.D. in Computer Science

Advisor: Dr. Yang Zhang

Saarbrücken, Germany

February 2020 –

Fudan University

Master in Computer Science

Advisor: Prof. Yang Chen

Shanghai, China

September 2017 – January 2020

Fudan University

Bachelor in Computer Science

Advisor: Prof. Yang Chen

Shanghai, China

September 2013 – June 2017

Research Interests

Trustworthy Machine Learning

Service

- PC member
 - 2022: ESORICS
 - 2021: ESORICS (Poster Session)
 - 2020: SocInfo
- External reviewer
 - 2022: USENIX Security, CCS, NDSS, Oakland, Euro S&P, NeurIPS
 - 2021: USENIX Security, CCS, NDSS, Euro S&P, ICLR, WWW, ICWSM, CHI, AAAI, AISACCS, PETS
 - 2020: Usenix Security, CCS, CSCW, ESORICS, PETS

Awards

- The Norton Labs Graduate Fellowship 2022

Publication

Conference.....

- [1] **Xinlei He**, Hongbin Liu, Neil Zhenqiang Gong, and Yang Zhang. Semi-Leak: Membership Inference Attacks Against Semi-supervised Learning. In *European Conference on Computer Vision (ECCV)*. Springer, 2022.
- [2] Tianshuo Cong, **Xinlei He**, and Yang Zhang. SSLGuard: A Watermarking Scheme for Self-supervised Learning Pre-trained Encoders. In *ACM SIGSAC Conference on Computer and Commu-*

nications Security (CCS). ACM, 2022.

- [3] Zheng Li, Yiyong Liu, **Xinlei He**, Ning Yu, Michael Backes, and Yang Zhang. Auditing Membership Leakages of Multi-Exit Networks. In *ACM SIGSAC Conference on Computer and Communications Security (CCS)*. ACM, 2022.
 - [4] Xinyue Shen, **Xinlei He**, Michael Backes, Jeremy Blackburn, Savvas Zannettou, and Yang Zhang. On Xing Tian and the Perseverance of Anti-China Sentiment Online. In *International Conference on Weblogs and Social Media (ICWSM)*, pages 944–955. AAAI, 2022.
 - [5] Yun Shen*, **Xinlei He***, Yufei Han, and Yang Zhang. Model Stealing Attacks Against Inductive Graph Neural Networks. In *IEEE Symposium on Security and Privacy (S&P)*. IEEE, 2022 (* Equal contribution).
 - [6] Yugeng Liu, Rui Wen, **Xinlei He**, Ahmed Salem, Zhikun Zhang, Michael Backes, Emiliano De Cristofaro, Mario Fritz, and Yang Zhang. ML-Doctor: Holistic Risk Assessment of Inference Attacks Against Machine Learning Models. In *USENIX Security Symposium (USENIX Security)*. USENIX, 2022.
 - [7] **Xinlei He**, Jinyuan Jia, Michael Backes, Neil Zhenqiang Gong, and Yang Zhang. Stealing Links from Graph Neural Networks. In *USENIX Security Symposium (USENIX Security)*. USENIX, 2021.
 - [8] **Xinlei He** and Yang Zhang. Quantifying and Mitigating Privacy Risks of Contrastive Learning. In *ACM SIGSAC Conference on Computer and Communications Security (CCS)*. ACM, 2021.
- [Journal.....](#)
- [9] Qinge Xie, Qingyuan Gong, **Xinlei He**, Yang Chen, Xin Wang, Haitao Zheng, and Ben Y. Zhao. Trimming mobile applications for bandwidth-challenged networks in developing regions. *IEEE Transactions on Mobile Computing (TMC)*, 2021.
 - [10] **Xinlei He**, Qingyuan Gong, Yang Chen, Yang Zhang, Xin Wang, and Xiaoming Fu. Datingsec: Detecting malicious accounts in dating apps using a content-based attention network. *IEEE Transactions on Dependable and Secure Computing (TDSC)*, 2020.
 - [11] Qingyuan Gong, Yang Chen, **Xinlei He**, Yu Xiao, Pan Hui, Xin Wang, and Xiaoming Fu. Cross-site prediction on social influence for cold-start users in online social networks. *ACM Transactions on the Web (TWEB)*, 2020.
 - [12] Qingyuan Gong, Yang Chen, **Xinlei He**, Zhou Zhuang, Tianyi Wang, Hong Huang, Xin Wang, and Xiaoming Fu. Deepscan: Exploiting deep learning for malicious account detection in location-based social networks. *IEEE Communications Magazine*, 2018.

Teaching

[Lectures.....](#)

Teaching Assistant

Advanced Lecture: Privacy Enhancing Technologies

May 2020 - September 2020, Saarland University

Teaching Assistant Seminar: Data-driven Approaches on Understanding Disinformation

May 2020 - September 2020, Saarland University