Xinlei He | CV

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Education

CISPA Helmholtz Center for Information Security   **Saarbrücken, Germany**
Ph.D. in Computer Science   *February 2020 – June 2023 (Expected)*
Advisor: Dr. Yang Zhang

Fudan University   **Shanghai, China**
Master in Computer Science   *September 2017 – January 2020*
Advisor: Prof. Yang Chen

Fudan University   **Shanghai, China**
Bachelor in Computer Science   *September 2013 – June 2017*
Advisor: Prof. Yang Chen

Research Interests

Trustworthy Machine Learning, Social Network Analysis

Service

- PC member
  - 2022: ESORICS
  - 2021: ESORICS (Poster Session)
  - 2020: SocInfo
- External reviewer
  - 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] 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.

[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 Communications Security (CCS)*. ACM, 2022.

[3] 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)*. AAAI, 2022.

[4] 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).

[5] 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.

[6] **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.

[7] **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

[8] 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*, 2021.

[9] **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*, 18(5):2193–2208, 2021.

[10] 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*, 15(2):6:1–6:23, 2021.

[11] 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 Commun. Mag.*, 56(11):21–27, 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