PUBLICATION RECORD

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Refereed Conference Papers

- 1. Yiting Qu, Xinyue Shen, Xinlei He, Michael Backes, Savvas Zannettou, Yang Zhang. Unsafe Diffusion: On the Generation of Unsafe Images and Hateful Memes From Text-To-Image Models. In Proceedings of ACM CCS, 2023
- 2. Zeyang Sha, Xinlei He, Ning Yu, Michael Backes, Yang Zhang. Can't Steal? Cont-Steal! Contrastive Stealing Attacks Against Image Encoders. In Proceedings of CVPR, 2023.
- 3. Rui Wen, Zhengyu Zhao, Zhuoran Liu, Michael Backes, Tianhao Wang, Yang Zhang. Is Adversarial Training Really a Silver Bullet for Mitigating Data Poisoning? In Proceedings of ICLR, 2023.
- 4. Yihan Ma, Zhikun Zhang, Ning Yu, Xinlei He, Michael Backes, Yun Shen, Yang Zhang. Generated Graph Detection. In Proceedings of ICML, 2023.
- 5. Ziqing Yang, Xinlei He, Zheng Li, Michael Backes, Mathias Humbert, Pascal Berrang, Yang Zhang. *Data Poisoning Attacks Against Multimodal Encoders*. In Proceedings of ICML, 2023.
- 6. Yugeng Liu, Zheng Li, Michael Backes, Yun Shen, Yang Zhang. Backdoor Attacks Against Dataset Distillation. In Proceedings of NDSS, 2023
- 7. Sanam Ghorbani Lyastani, Michael Backes, Sven Bugiel. A Systematic Study of the Consistency of Two-Factor Authentication User Journeys on Top-Ranked Websites. In Proceedings of NDSS, 2023
- 8. Hamed Rasifard, Rahul Gopinath, Michael Backes, Hamed Nemati. SEAL: Capability-Based Access Control for Data-Analytic Scenarios. In Proceedings of SACMAT, 2023.
- 9. Yiting Qu, Xinlei He, Shannon Pierson, Michael Backes, Yang Zhang, Savvas Zannettou. On the Evolution of (Hateful) Memes by Means of Multimodal Contrastive Learning. In Proceedings of IEEE S&P, 2023.
- 10. Haiming Wang, Zhikun Zhang, Tianhao Wang, Shibo He, Michael Backes, Jiming Chen, Yang Zhang. *PrivTrace: Differentially Private Trajectory Synthesis by Adaptive Markov Models.* In Proceedings of USENIX Security, 2023.
- 11. Wai Man Si, Michael Backes, Yang Zhang, Ahmed Salem. Two-in-One: A Model Hijacking Attack Against Text Generation Models. In Proceedings of USENIX Security, 2023.
- 12. Cristian-Alexandru Staicu, Sazzadur Rahaman, Ágnes Kiss, Michael Backes. *Bilingual Problems: Studying the Security Risks Incurred by Native Extensions in Scripting Languages*. In Proceedings of USENIX Security, 2023.
- 13. Min Chen, Zhikun Zhang, Tianhao Wang, Michael Backes, Yang Zhang. FACE-AUDITOR: Data Auditing in Facial Recognition Systems. In Proceedings of USENIX Security, 2023.
- 14. Zheng Li, Ning Yu, Ahmed Salem, Michael Backes, Mario Fritz, Yang Zhang. *UnGANable: Defending Against GAN-based Face Manipulation*. USENIX Security Symposium 2023: 7213-7230
- 15. Min Chen, Zhikun Zhang, Tianhao Wang, Michael Backes, Mathias Humbert, Yang Zhang. *Graph Unlearning*. In Proceedings of ACM CCS, 2022.
- 16. Hai Huang, Zhikun Zhang, Yun Shen, Michael Backes, Qi Li, Yang Zhang. On the Privacy Risks of Cell-Based NAS Architectures. In Proceedings of ACM CCS, 2022.

- 17. Zheng Li, Yiyong Liu, Xinlei He, Ning Yu, Michael Backes, Yang Zhang. *Auditing Membership Leakages of Multi-Exit Networks*. In Proceedings of ACM CCS, 2022.
- 18. Yiyong Liu, Zhengyu Zhao, Michael Backes, Yang Zhang. *Membership Inference Attacks by Exploiting Loss Trajectory*. In Proceedings of ACM CCS, 2022.
- 19. Trung Tin Nguyen, Michael Backes, Ben Stock. Freely Given Consent?: Studying Consent Notice of Third-Party Tracking and Its Violations of GDPR in Android Apps. In Proceedings of ACM CCS, 2022.
- 20. Yun Shen, Yufei Han, Zhikun Zhang, Min Chen, Ting Yu, Michael Backes, Yang Zhang, Gianluca Stringhini. Finding MNEMON: Reviving Memories of Node Embeddings. In Proceedings of ACM CCS, 2022.
- 21. Wai Man Si, Michael Backes, Jeremy Blackburn, Emiliano De Cristofaro, Gianluca Stringhini, Savvas Zannettou, Yang Zhang. Why So Toxic?: Measuring and Triggering Toxic Behavior in Open-Domain Chatbots. In Proceedings of ACM CCS, 2022.
- 22. Michael Backes, Pascal Berrang, Lucjan Hanzlik, Ivan Pryvalov. A Framework for Constructing Single Secret Leader Election from MPC. In Proceedings of ESORICS, 2022.
- 23. Ahmed Salem, Rui Wen, Michael Backes, Shiqing Ma, Yang Zhang. *Dynamic Backdoor Attacks Against Machine Learning Models*. In Proceedings of IEEE EuroS&P, 2022.
- 24. Xinyue Shen, Xinlei He, Michael Backes, Jeremy Blackburn, Savvas Zannettou, Yang Zhang. On Xing Tian and the Perseverance of Anti-China Sentiment Online. In Proceedings of ICWSM, 2022.
- 25. Ahmed Salem, Michael Backes, Yang Zhang. Get a Model! Model Hijacking Attack Against Machine Learning Models. In Proceedings of NDSS, 2022.
- 26. Lukas Bieringer, Kathrin Grosse, Michael Backes, Battista Biggio, Katharina Krombholz. *Industrial practitioners' mental models of adversarial machine learning*. In Proceedings of SOUPS @ USENIX Security Symposium, 2022.
- 27. Yugeng Liu, Rui Wen, Xinlei He, Ahmed Salem, Zhikun Zhang, Michael Backes, Emiliano De Cristofaro, Mario Fritz, Yang Zhang. *ML-Doctor: Holistic Risk Assessment of Inference Attacks Against Machine Learning Models*. In Proceedings of USENIX Security Symposium, 2022.
- 28. Zhikun Zhang, Min Chen, Michael Backes, Yun Shen, Yang Zhan. *Inference Attacks Against Graph Neural Networks*. In Proceedings of USENIX Security Symposium, 2022.
- 29. Xiaoyi Chen, Ahmed Salem, Dingfan Chen, Michael Backes, Shiqing Ma, Qingni Shen, Zhonghai Wu, Yang Zhang. BadNL: Backdoor Attacks against NLP Models with Semantic-preserving Improvements. In Proceedings of ACSAC, 2021.
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- 32. Sebastian Roth, Lea Gröber, Michael Backes, Katharina Krombholz, Ben Stock. 12 Angry Developers A Qualitative Study on Developers' Struggles with CSP. In Proceedings of ACM CCS, 2021.
- 33. Trung Tin Nguyen, Duc-Cuong Nguyen, Michael Schilling, Gang Wang, Michael Backes. *Measuring User Perception for Detecting Unexpected Access to Sensitive Resource in Mobile Apps.* In Proceedings of ACM AsiaCCS, 2021.
- 34. Lucjan Hanzlik, Yang Zhang, Kathrin Grosse, Ahmed Salem, Maximilian Augustin, Michael Backes,

- Mario Fritz. MLCapsule: Guarded Offline Deployment of Machine Learning as a Service. In Proceedings of CVPR Workshops, 2021.
- 35. Marvin Moog, Markus Demmel, Michael Backes, Aurore Fass. Statically Detecting JavaScript Obfuscation and Minification Techniques in the Wild. In Proceedings of DSN, 2021.
- 36. Kathrin Grosse, Michael Backes. Do winning tickets exist before DNN training? In Proceedings of SDM, 2021.
- 37. Yusra Elbitar, Michael Schilling, Trung Tin Nguyen, Michael Backes, Sven Bugiel. Explanation Beats Context: The Effect of Timing & Rationales on Users' Runtime Permission Decisions. In Proceedings of USENIX Security, 2021.
- 38. Xinlei He, Jinyuan Jia, Michael Backes, Neil Zhenqiang Gong, Yang Zhang. Stealing Links from Graph Neural Networks. In Proceedings of USENIX Security, 2021.
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- 40. Zhikun Zhang, Tianhao Wang, Jean Honorio, Ninghui Li, Michael Backes, Shibo He, Jiming Chen, and Yang Zhang. *PrivSyn: Differentially Private Data Synthesis*. In Proceedings of USENIX Security, 2021.
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- 45. Yang Zhang, Mathias Humbert, Bartlomiej Surma, Praveen Manoharan, Jilles Vreeken, and Michael Backes. *Towards Plausible Graph Anonymization*. In Proceedings of NDSS, 2020.
- 46. Stefano Calzavara, Sebastian Roth, Alvise Rabitti, Michael Backes, and Ben Stock. A Tale of Two Headers: A Formal Analysis of Inconsistent Click-Jacking Protection on the Web. In Proceedings of Usenix Security, 2020.
- 47. Ahmed Salem, Apratim Bhattacharya, Michael Backes, Mario Fritz, and Yang Zhang. *Updates-Leak: Data Set Inference and Reconstruction Attacks in Online Learning.* In Proceedings of Usenix Security, 2020.
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