Shawn Shan

CONTACT INFORMATION

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EDUCATION

University of Chicago Started in 2020
PhD Student, Computer Science
Advised by Prof. Ben Y. Zhao and Prof. Heather Zheng

University of Chicago 2020 - 2022
Master of Science, Computer Science
Advised by Prof. Ben Y. Zhao and Prof. Heather Zheng

University of Chicago 2016 - 2020
Bachelor of Science, Computer Science with honors
Advised by Prof. Ben Y. Zhao and Prof. Heather Zheng

PUBLICATIONS

[1] **S. Shan**, J. Cryan, E. Wenger, H. Zheng, R. Hanocka, BY. Zhao. Glaze: Protecting Artists from Style Mimicry by Text-to-Image Models , *Proceedings of USENIX Security Symposium* **(USENIX Security)** 2023.
Distinguished Paper Award
Winner: USENIX Internet Defense Prize

[2] E. Wenger, **S. Shan**, H. Zheng, BY. Zhao. SoK: Anti-Facial Recognition Technology, *IEEE Symposium on Security and Privacy* **(Oakland)** 2023.

[3] **S. Shan**, W. Ding, E. Wenger, H. Zheng, BY. Zhao. Post-breach Recovery: Protection against White-box Adversarial Examples for Leaked DNN Models, *Proceedings of ACM Conference on Computer and Communications Security* **(CCS)** 2022.

[4] **S. Shan**, A.N. Bhagoji, H. Zheng, BY. Zhao. Poison Forensics: Traceback of Data Poisoning Attacks in Neural Networks, *Proceedings of USENIX Security Symposium* **(USENIX Security)** 2022.

[5] H. Li, **S. Shan**, E. Wenger, J. Zhang, H. Zheng, BY. Zhao. Blacklight: Scalable Defense for Neural Networks against Query-Based Black-Box Attacks, *Proceedings of USENIX Security Symposium* **(USENIX Security)** 2022.

[6] **S. Shan**, A. Bhagoji, H. Zheng, and B. Zhao. Patch-based Defenses against Web Fingerprinting Attacks, *Proceedings of ACM Workshop on Artificial Intelligence and Security* **(AISec)** 2021.

[7] T. Xu, G. Goossen, H.K. Cevahir, S. Khodeir, Y. Jin, F. Li, **S. Shan**, S. Patel, D. Freeman, P. Pearce. Deep Entity Classification: Abusive Account Detection for Online Social Networks, *Proceedings of USENIX Security Symposium* **(USENIX Security)** 2021.

[8] **S. Shan**, E. Wenger, B. Wang, B. Li, H. Zheng, B. Zhao. Gotta Catch 'Em All: Using Concealed Trapdoors to Detect Adversarial Attacks on Neural Networks, *Proceedings of ACM Conference on Computer and Communications Security* **(CCS)** 2020.

[9] **S. Shan**, E. Wenger, J. Zhang, H. Li, H. Zheng, B. Zhao. Fawkes: Protecting Personal Privacy against Unauthorized Deep Learning Models, *Proceedings of USENIX Security Symposium* **(USENIX Security)** 2020.

[10] B. Wang, Y. Yao, **S. Shan**, H. Li, B. Viswanath, H. Zheng, B. Zhao. Neural Cleanse: Identifying and Mitigating Backdoor Attacks in Neural Networks, *IEEE Symposium on Security and Privacy* **(Oakland)** 2019.

[11] B. Weinshel, M. Wei, M. Mondal, E. Choi, **S. Shan**, C. Dolin, M. Mazurek, B. Ur. Oh, the Places You've Been! User Reactions to Longitudinal Transparency About Third-Party Web Tracking and Inferencing, *ACM Conference on Computer and Communications Security* **(CCS)** 2019.

[12] X. Zhang, **S. Shan**, S. Tang, H. Zheng, B. Zhao. Penny Auctions are Predictable: Predicting and profiling user behavior on DealDash, *ACM Conference on Hypertext and Social Media* **(HT)** 2018.

[13] C. Dolin, B. Weinshel, **S. Shan**, C. Hahn, E. Choi, M. Mazurek, B. Ur. Unpacking Perceptions of Data-Driven Inferences Underlying Online Targeting and Personalization, *ACM SIGCHI Conference on Human Factors in Computing Systems* **(CHI)** 2018.

POSTERS

[1] **S. Shan**, E. Wenger, B. Wang, B. Li, H. Zheng, B. Zhao. "Using Concealed Trapdoors to Detect Adversarial Attacks on Neural Networks" *NSF Secure and Trustworthy CyberSpace Principal Investigators' Meeting* **(SaTC PI)** 2019.

[2] E. Choi, C. Dolin, A. Goldman, C. Hahn, **S. Shan**, B. Weinshel, M. Mazurek, B. Ur. "Data-Driven Transparency About Online Tracking" *Symposium On Usable Privacy and Security* **(SOUPS)** 2017.
Distinguished Poster Award

HONORS AND AWARDS

- **Forbes 30 Under 30** (2024)
- **Chicago Innovation Award** (2023)
- **TIME Magazine Best Inventions** (2023)
- **USENIX Internet Defense Prize** (2023)
- **Distinguished Paper Award** (USENIX security 2023)
- **Eckhardt Graduate Scholarship** (2020)
- **Liew Family Research Fellowship** (2018)
- **Distinguished Poster Award** (SOUPS 2017)

PROFESSIONAL EXPERIENCE

Software Engineer Intern June 2020 - Aug 2020
Facebook Inc.

Software Engineer Intern June 2019 - Aug 2019
Facebook Inc.

SERVICE

Technical Program Committee:

- *Privacy Enhancing Technologies Symposium (PETS)*, 2023, 2024
- *ACM Workshop on Artificial Intelligence and Security (AISec)*, 2022
- *Conference on Information and Communications Security (ICICS)*, 2021, 2022

Reviewer:

- Conference on Computer Vision and Pattern Recognition (CVPR), 2021, 2022
- European Conference on Computer Vision (ECCV), 2021, 2022