

# JARON MINK

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## RESEARCH INTERESTS

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Human Factors in Security and Privacy; Responsible Machine Learning; System Security

## EDUCATION

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University of Illinois at Urbana-Champaign Aug. 2019 - Present  
Ph.D. in Computer Science. Advisor: Gang Wang

University of California, Los Angeles Sep. 2015 - Mar. 2019  
B.S. in Computer Science

## AWARDS AND HONORS

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NSF Graduate Research Fellowship (NSF GFRP) - Awarded: \$138,000 Aug. 2021 - Aug. 2024  
Magna Cum Laude 2019  
UCLA Deans Honor List, UCLA 2019

## PUBLICATIONS

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### Referred Publications

- **[USENIX Security '23] Jaron Mink\***, Harjot Kaur\*, Juliane Schmäuser\*, Sascha Fahl, Yasemin Acar. “Security is not my field, I’m a stats guy’: A Qualitative Root Cause Analysis of Barriers to Adversarial Machine Learning Defenses in Industry”.  
32nd USENIX Security Symposium. Anaheim, CA, USA. August 2023.  
(acceptance rate: 29%; \* equal contribution) [\[pdf\]](#)
- **[IEEE S&P '23] Jaron Mink**, Hadjer Benkraouda, Limin Yang, Arridhana Ciptadi, Ali Ahmadzadeh, Daniel Votipka, Gang Wang. “Everybody’s Got ML, Tell Me What Else You Have: Practitioners’ Perception of ML-Based Security Tools and Explanations”.  
44th IEEE Symposium on Security and Privacy. San Francisco, CA, USA. May 2023.  
(acceptance rate: 17%) [\[pdf\]](#)
- **[IEEE S&P '23] Muhammad Adil Inam**, Yinfang Chen, Noor Michael, Jason Liu, **Jaron Mink**, Sneha Gaur, Adam Bates and Wajih Ul Hassan. “SoK: History is a Vast Early Warning System: Auditing the Provenance of System Intrusions”.  
44th IEEE Symposium on Security and Privacy. San Francisco, CA, USA. May 2023.  
(acceptance rate: 17%) [\[pdf\]](#)
- **[ACSAC '22] Muhammad Adil Inam**, Akul Goyal, Jason Liu, **Jaron Mink**, Noor Michael, Sneha Gaur, Adam Bates, Wajih Ul Hassan. “FAuST: Striking a Bargain between Forensic Auditing’s Security and Throughput”.  
38th Annual Computer Security Applications Conference. Austin, TX, USA. December 2022.  
(acceptance rate: 24.5%) [\[pdf\]](#)

- [USENIX Security '22] **Jaron Mink**, Licheng Luo, Natã M. Barbosa, Olivia Figueira, Yang Wang, and Gang Wang. “DeepPhish: Understanding User Trust Towards Artificially Generated Profiles in Online Social Networks”.  
31st USENIX Security Symposium. Boston, MA, USA. August 2022.  
(acceptance rate: 16%) [[pdf](#)]
- [WWW '22] Ziyi Zhang, Shuofei Zhu, **Jaron Mink**, Aiping Xiong, Linhai Song and Gang Wang. “Beyond Bot Detection: Combating Fraudulent Online Survey Takers”.  
The ACM Web Conference. Lyon, France. April 2022.  
(acceptance rate: 18%) [[pdf](#)]
- [CHI '22] **Jaron Mink**, Amanda Rose Yuile, Uma Pal, Adam J Aviv, and Adam Bates. “Users Can Deduce Sensitive Locations Protected by Privacy Zones on Fitness Tracking Apps”.  
ACM CHI Conference on Human Factors in Computing Systems. New Orleans, LA, USA. May 2022.  
(acceptance rate: 24%) [[pdf](#)]
- [ACSAC '20] Noor Michael, **Jaron Mink**, Jason Liu, Sneha Gaur, Wajih UI Hassan, and Adam Bates. “On the Forensic Validity of Approximated Audit Logs”.  
36th Annual Computer Security Applications Conference. Austin, TX, USA. December 2020.  
(acceptance rate: 23%) [[pdf](#)]

## EXPERIENCE

<p><b>University of Washington</b> Visiting Researcher. Mentor: Tadayoshi Kohno</p> <ul style="list-style-type: none"> <li>• Investigated identity-based biases that occur during deepfake content moderation.</li> <li>• Investigated how security literature quantitatively analyzes and interprets demographic factors.</li> </ul>	<p>Jun. 2023 - Aug. 2023</p>
<p><b>Human Computing Associates</b> Consultant. Mentor: Elissa Redmiles</p> <ul style="list-style-type: none"> <li>• Consulted with “Partnership on AI” to identify areas of shared concern and high priority in AI safety.</li> </ul>	<p>Mar. 2022 - Mar. 2023</p>
<p><b>Max Planck Institute for Software Systems</b> Visiting Scholar. Mentor: Elissa Redmiles</p> <ul style="list-style-type: none"> <li>• Investigated identity-based biases that occur during deepfake content moderation.</li> </ul>	<p>May. 2022 - Aug. 2022</p>
<p><b>Max Planck Institute for Security and Privacy</b> Research Fellow. Mentor: Yasemin Acar</p> <ul style="list-style-type: none"> <li>• Investigated ML developers’ perceptions of adversarial machine learning and barriers to defense deployment.</li> </ul>	<p>May. 2021 - Aug. 2021</p>
<p><b>Viasat</b> Network Engineer Intern. Mentor: Andrew J. Acalinovich</p> <ul style="list-style-type: none"> <li>• Researched and developed a network alert algorithm and dashboard for Security Operations Center.</li> </ul>	<p>Mar. 2019 - Aug. 2019</p>
<p><b>Novacoast</b> Software Developer Intern. Mentor: Rouel Soberano, Renato Untalan</p>	<p>Mar. 2017 - Mar. 2019</p>

- Designed and developed application for experimental remote autism therapy with clinical therapists.
- Developed mobile application to control FLIR UAS thermal cameras.

## INVITED TALKS

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- ‘Security is not my field, I’m a stats guy’: A Qualitative Root Cause Analysis of Barriers to Adversarial Machine Learning Defenses in Industry. *The 32nd USENIX Security Symposium*. Anaheim, CA, USA. August 2023
- Everybody’s Got ML, Tell Me What Else You Have: Practitioners’ Perception of ML-Based Security Tools and Explanations. *44th IEEE Symposium on Security and Privacy*. San Francisco, CA, USA. May 23, 2023
- Human Perceptions and Roles Under Emerging Machine Learning Threats. *Georgia Tech: School of Cybersecurity - Student Security Seminar*. Atlanta, GA, USA. Nov 16, 2022
- DeepPhish: Understanding User Trust Towards Artificially Generated Profiles in Online Social Network. *31st USENIX Security Symposium*. Boston, Massachusetts USA. August 11, 2022
- Human Perceptions and Roles Under Emerging Machine Learning Threats. *CISPA*. Hannover, Germany. Jul 28, 2022
- Human Perceptions and Roles During Emerging Machine Learning Threats. *Cyber Security in the Age of Large-Scale Adversaries (CASA) Colloquium*. Bochum, Germany. Wed 6, 2022
- DeepPhish: Understanding User Trust Towards Artificially Generated Profiles in Online Social Network. *Capital Area Colloquium on Trustworthy and Usable Security/Privacy*. Washington D.C., USA. May 31, 2022
- Users Can Deduce Sensitive Locations Protected by Privacy Zones on Fitness Tracking Apps. *Capital Area Colloquium on Trustworthy and Usable Security/Privacy*. College Park, Maryland, USA. December 14, 2021
- On the Forensic Validity of Approximated Audit Logs. *6th Annual Computer Security Applications Conference*. Virtual. December 9, 2020

## TEACHING

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Guest Lecturer: CS 463. <i>Computer Security II: Deepfakes - Threats and Mitigations</i> . UIUC	Fall 2021
Teaching Assistant: CS 463. <i>Computer Security II</i> . UIUC	Spring 2021
Learning Assistant: CS 33. <i>Intro to Computer Architecture</i> . UCLA	Fall 2018

## ADVISING

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Ezra Goodwin. B.S.: Univ. of Illinois at Urbana-Champaign	Sept. 2023 – Present
<ul style="list-style-type: none"> <li>• UIUC: CS Student Ambassadors/Research Scholars (CS STARS)</li> </ul>	
Uma Pal. B.S.: Univ. of Illinois at Urbana-Champaign → PhD: UMass	Aug. 2020 – May. 2021
<ul style="list-style-type: none"> <li>• UIUC: Undergraduate research collaboration</li> </ul>	

Olivia Figueira. B.S.: Santa Clara Univ. → PhD: UC Irvine Jun. 2020 – Sept. 2020

- Computing Research Association-Widening Participation: DREU

Tooba Hashmi. B.S.: Univ. of Houston-Downtown → MS: Univ. of Houston May. 2020 - Aug. 2020

- DHS: Summer Research Team for Minority Serving Institutions Program

## PROFESSIONAL SERVICE

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### Program Committee

- [SaTML] IEEE Conference on Secure and Trustworthy Machine Learning 2023
- [EAAMO] ACM Conference on Equity and Access in Algorithms, Mechanisms, and Optimization 2023

### Poster Session Program Committee

- [SOUPS] Symposium on Usable Privacy and Security 2022, 2023

### External Reviewer

2021, 2022, 2023, 2024

- [CHI] ACM Conference on Human Factors in Computing Systems
- [NDSS] Network and Distributed System Security Symposium 2021
- [SOUPS] Symposium on Usable Privacy and Security 2021
- [RAID] International Symposium on Research in Attacks, Intrusions, and Defenses 2022
- [TDSC] IEEE Transactions on Dependable and Secure Computing 2023

## COMMUNITY SERVICE

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SAIL: Cybersecurity Ninja Training Course, UIUC Apr. 2021, 2022, 2023

- Designed and ran an interactive presentation to teach high school students about real-world security issues and how to protect themselves.

Safer Illinois: Security Verification Team, UIUC Aug. 2020 - Dec. 2020

- Investigated security of UIUC’s COVID contact tracing app.
- Disclosed findings and provided recommendations to developers.

## CODE AND DATASET RELEASE

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- ““Security is not my field, I’m a stats guy”: A Qualitative Root Cause Analysis of Barriers to Adversarial Machine Learning Defenses in Industry”.  
<https://osf.io/3q54p/>
- “FAuST: Striking a Bargain between Forensic Auditing’s Security and Throughput”.  
<https://bitbucket.org/sts-lab/faust>
- “DeepPhish: Understanding User Trust Towards Artificially Generated Profiles in Online Social Network”.  
<https://github.com/JaronMink/DeepPhish>
- “Users Can Deduce Sensitive Locations Protected by Privacy Zones on Fitness Tracking Apps”.  
<https://bitbucket.org/sts-lab/epz-game-chi22/>

## MEDIA COVERAGE

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- Scammers' threaten quality of research survey data, Spectrum News Aug. 2023  
<https://www.spectrumnews.org/news/scammers-threaten-quality-of-research-survey-data>
- Can you trust what you see online?, Futurum May. 2023  
<https://futurumcareers.com/can-you-trust-what-you-see-online>
- How Private is Your Health Tracking App Data?, The 21st Show Aug. 2022  
<https://will.illinois.edu/21stshow/story/how-private-is-your-health-tracking-app-data>
- People are bad at spotting fake LinkedIn profiles generated by AI, New Scientist Feb. 2022  
<https://www.newscientist.com/article/2308977-people-are-bad-at-spotting-fake-linkedin-profiles-generated-by-ai/>
- Four Illinois CS Students Earn Highly Coveted NSF Graduate Research Fellowship Jul. 2021  
<https://cs.illinois.edu/news/2021-NSF-Grad-Research-Fellowships>