Wentao Guo
wguo5@umd.edu • wentaoguo.com

EDUCATION

PhD in *Computer Science*   August 2021 – May 2026 (expected)
University of Maryland   College Park, MD
- Advised by Michelle Mazurek, focusing on human-centered security and privacy

B.A. in *Computer Science* and *Science, Technology, and Society*   May 2019
Pomona College   Claremont, CA
- *Magna cum laude*, Phi Beta Kappa

CONFERENCE PUBLICATIONS

[under review] **Wentao Guo**, Alexander Yang, Nathan Malkin, Michelle L. Mazurek. How experts personalize privacy & security advice for at-risk users.

Yunze Zhao, **Wentao Guo**, Harrison Goldstein, Daniel Votipka, Kelsey Fulton, Michelle L. Mazurek. A qualitative analysis of fuzzing tool usability and challenges. CCS '25 (ACM Conference on Computer and Communications Security).

Wentao Guo, Paige Pepitone, Adam J. Aviv, Michelle L. Mazurek. How researchers de-identify data in practice. USENIX '25 (USENIX Security Symposium).

Wentao Guo, Aditya Kishore, Adam J. Aviv, Michelle L. Mazurek. A qualitative analysis of practical de-identification guides. CCS '24 (ACM Conference on Computer and Communications Security).

Michael Coblenz, **Wentao Guo**, Kamatchi Voozhian, Jeffrey S. Foster. A qualitative study of REST API design and specification practices. VL/HCC '23 (IEEE Symposium on Visual Languages and Human-Centric Computing).

Wentao Guo, Jason Walter, and Michelle L. Mazurek. The role of professional product reviewers in evaluating security and privacy. USENIX '23 (USENIX Security Symposium).

WORKSHOP PAPERS

Wentao Guo, Jay Rodolitz, and Eleanor Birrell. Poli-see: An interactive tool for visualizing privacy policies. WPES '20 (ACM CCS Workshop on Privacy in the Electronic Society).

Zaina Aljallad, **Wentao Guo**, Chhaya Chouhan, Christy LaPerriere, Jess Kropczynski, Pamela Wisnewski, and Heather Lipford. Designing a mobile application to support social processes for privacy decisions. USEC '19 (NDSS Workshop on Usable Security).

WORKSHOP PROPOSALS

Richard Roberts, **Wentao Guo**, Omer Akgul, Michelle L. Mazurek, and Dave Levin. This proposal was brought to you by content creators' mental models of security & privacy products. ConPro '23 (IEEE S&P Workshop on Technology and Consumer Protection).

Wentao Guo, Jason Walter, and Michelle L. Mazurek. The role of product reviewers in evaluating security and privacy. ConPro '22 (IEEE S&P Workshop on Technology and Consumer Protection).

INVITED TALKS

Incentives, expertise, and capacity: Unlocking the power of professionals to protect users' security and privacy. Virginia Polytechnic University. May 2024.

Understanding de-identification guidance and practices for researchers. NSF Cybersecurity Innovation for Cyber Infrastructure (CICI) PI meeting. March 2024.

SELECTED AWARDS

MC2 Seed Grant   University of Maryland, Fall 2023
Awarded $1,890 to fund a research proposal on perceptions of tracking and inference in VR

Paul B. Yale Computer Science Prize   Pomona College, Spring 2019
Awarded to three outstanding seniors majoring in Computer Science

Science, Technology, and Society Prize   Pomona College, Spring 2019
Awarded to one outstanding senior majoring in Science, Technology, and Society

SELECTED WORK EXPERIENCE

IoT Design Fellow   June 2023 – September 2023
Consumer Reports   New York, NY
- Designed, conducted, and analyzed four studies (surveys, focus groups, and user studies) on consumer perspectives on IoT security and privacy labels, in collaboration with two other fellows
- Interviewed IoT manufacturers about challenges with product security and privacy reporting

Software developer   September 2019 – June 2021
Epic Systems   Verona, WI
- Worked on backend infrastructure and data ingestion for Cosmos, a HIPAA-regulated dataset of >100 million patients' electronic health records used for research and data-driven healthcare

Research programmer   June 2019 – August 2019
Ecosystem Dynamics and Forecasting Lab   Virginia Tech
- Contributed bug fixes to the open-source General Lake Model project: https://github.com/AquaticEcoDynamics/GLM/pull/16
- Created an intake script to format and validate data from field sensors

SELECTED TEACHING ASSISTANTSHIPS

Introduction to Privacy (Spring 2025)   Computer Science (UMD)
Human Factors in Security and Privacy (Fall 2024)   Computer Science (UMD)
Computer Systems (Spring 2019)   Computer Science (Pomona College)
Computability and Logic (Spring 2018)   Computer Science (Pomona College)

SELECTED PROFESSIONAL AND ACADEMIC SERVICE

Chair of Community Building   December 2023 – Present
Peer mentor   September 2023 – Present
Organizer   October 2021 – Present
Computer Science Graduate Student Committee   University of Maryland
- Managing the department's peer mentoring program, as well as biweekly student-organized community-building events including practical workshops and socials

Project mentor   October 2023, 2024
Tech + Research   University of Maryland
- Designed hackathon-style research projects in human-centered security and privacy, and mentored women undergraduates as they completed them over the course of a weekend

Lead organizer   September 2021 – Present
Security Reading Group   University of Maryland
- Planning weekly research paper discussions, practice talks, invited talks, and workshops

Peer reviewing (including reviews and sub-reviews)
- CHI '24/'25 (2 papers), CSCW '24 (2 papers), SOUPS '24/'25 (2 papers), ESORICS '25 (1 paper), International Journal of Human-Computer Studies '23 (1 paper), IEEE S&P '23 (1 paper)

SELECTED GUEST LECTURES

Privacy for at-risk individuals

Introduction to Privacy

Spring 2025

Computer Science (UMD)

Modern privacy enforcement

Introduction to Privacy

Spring 2025

Computer Science (UMD)

Qualitative research methods

Human Factors in Security and Privacy

Fall 2024

Computer Science (UMD)

Intro to security

Privacy, Security, and Ethics for Big Data

Spring 2024

Information Studies (UMD)

AI and algorithms

Privacy, Security, and Ethics for Big Data

Spring 2023

Information Studies (UMD)

Buffer overflow attacks

Computer and Network Security

Spring 2022

Computer Science (UMD)

Deepfakes

Philosophy of Technology

Spring 2019

Philosophy (Pomona College)