

EDUCATION

PhD in Computer Science
University of Maryland

August 2021 – May 2026 (expected)
College Park, MD

- Advised by Michelle Mazurek, focusing on human-centered security and privacy

B.A. in Computer Science and Science, Technology, and Society
Pomona College

May 2019
Claremont, CA

- *Magna cum laude*, Phi Beta Kappa

CONFERENCE PUBLICATIONS

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

[under review] Yunze Zhao, **Wentao Guo**, Harrison Goldstein, Daniel Votipka, Kelsey Fulton, Michelle L. Mazurek. A qualitative analysis of fuzzing tool usability and challenges.

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 Wisniewski, 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**
- CHI '24/'25 (2 papers), CSCW '24 (2 papers), SOUPS '24/'25 (2 papers), 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

Computer and Network Security

Spring 2022
Computer Science (UMD)

Deepfakes

Philosophy of Technology

Spring 2019
Philosophy (Pomona College)