

Wentao Guo

wguo5@umd.edu • wentaoguo.com

EDUCATION

- Aug '21 – May '26 **PhD in Computer Science**, University of Maryland (UMD)
(expected) Dissertation: *Supporting data de-identification in an era of open science* (advised by Dr. Michelle Mazurek)
- Aug '15 – May '19 **B.A. in Computer Science and Science, Technology, and Society**, Pomona College
Magna cum laude, Phi Beta Kappa, Distinction in the Senior Exercise (x2)
- Computer Science thesis: *Poli-see: An interactive tool for visualizing privacy policies* (advised by Dr. Eleanor Birrell)
 - Science, Technology, and Society thesis: *Towards a critical understanding of deepfakes: Developing a teaching module and more* (advised by Drs. Laura Perini and Brian Keeley)

CONFERENCE PAPERS

* indicates mentored undergraduate student

- PETS '26 **Wentao Guo**, Alexander Yang, * Nathan Malkin, Michelle L. Mazurek. How experts personalize privacy & security advice for at-risk users. Privacy Enhancing Technologies Symposium. <https://wentaoguo.com/publications/at-risk-advice/>
- CCS '25 Yunze Zhao, **Wentao Guo**, Harrison Goldstein, Daniel Votipka, Kelsey Fulton, Michelle L. Mazurek. A qualitative analysis of fuzzer usability and challenges. ACM Conference on Computer and Communications Security. <https://wentaoguo.com/publications/fuzzing-usability/>
- USENIX '25 **Wentao Guo**, Paige Pepitone, Adam J. Aviv, Michelle L. Mazurek. How researchers de-identify data in practice. USENIX Security Symposium.
17% accept <https://www.usenix.org/conference/usenixsecurity25/presentation/guo-wentao>
- CCS '24 **Wentao Guo**, Aditya Kishore, * Adam J. Aviv, Michelle L. Mazurek. A qualitative analysis of practical de-identification guides. ACM Conference on Computer and Communications Security.
17% <https://doi.org/10.1145/3658644.3690270>
- VL/HCC '23 Michael Coblenz, **Wentao Guo**, Kamatchi Voozhian, Jeffrey S. Foster. A qualitative study of REST API design and specification practices. IEEE Symposium on Visual Languages and Human-Centric Computing. <https://doi.org/10.1109/VL-HCC57772.2023.00025>
30%
- USENIX '23 **Wentao Guo**, Jason Walter, * and Michelle L. Mazurek. The role of professional product reviewers in evaluating security and privacy. USENIX Security Symposium.
29% <https://www.usenix.org/conference/usenixsecurity23/presentation/guo-wentao>

WORKSHOP PAPERS

- WPES '20 **Wentao Guo**, Jay Rodolitz, and Eleanor Birrell. Poli-see: An interactive tool for visualizing privacy policies. ACM CCS Workshop on Privacy in the Electronic Society.
44% <https://doi.org/10.1145/3411497.3420221>
- USEC '19 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. NDSS Workshop on Usable Security. <https://www.ndss-symposium.org/ndss-paper/auto-draft-25/>

WORKSHOP PROPOSALS

- ConPro '23 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. IEEE S&P Workshop on Technology and Consumer Protection.
- ConPro '22 **Wentao Guo**, Jason Walter, and Michelle L. Mazurek. The role of product reviewers in evaluating security and privacy. IEEE S&P Workshop on Technology and Consumer Protection.

SELECTED TALKS

- May '24 Incentives, expertise, and capacity: Unlocking the power of professionals to protect users' security and privacy. Virginia Polytechnic University.
- Mar '24 Understanding de-identification guidance and practices for researchers. NSF Cybersecurity Innovation for Cyber Infrastructure (CICI) PI meeting.
- Dec '23 Scientists are users too! Understanding de-identification practices, mental models, and challenges. Capital-Area Colloquium on Trustworthy and Usable Security/Privacy.
- Dec '22 The role of professional product reviewers in evaluating security and privacy. Capital-Area Colloquium on Trustworthy and Usable Security/Privacy (*co-presented by Jason Walter*).

POSTERS

- SOUPS '24 Understanding de-identification guidance and practices for research data. Symposium on Usable Privacy and Security.
- SOUPS '21 Poli-see: An interactive tool for visualizing privacy policies. Symposium on Usable Privacy and Security.

TEACHING ASSISTANTSHIPS

- Spring '25 **Introduction to Privacy**, UMD CS
- Fall '24 **Human Factors in Security and Privacy**, UMD CS
- Spring '19 **Computer Systems**, Pomona College CS
- Spring '18 **Computability and Logic**, Pomona College CS

GUEST LECTURES

- Spring '25 **Privacy for at-risk individuals**; Introduction to Privacy; UMD CS
- Spring '25 **Modern privacy enforcement**; Introduction to Privacy; UMD CS
- Fall '24 **Qualitative research methods**; Human Factors in Security & Privacy; UMD CS
- Spring '24 **Intro to security**; Privacy, Security, and Ethics for Big Data; UMD Info Studies
- Spring '23 **AI and algorithms**; Privacy, Security, and Ethics for Big Data; UMD Info Studies
- Spring '22 **Buffer overflow attacks**; Computer and Network Security; UMD CS
- Spring '19 **Deepfakes**; Philosophy of Technology; Pomona College Philosophy
- Spring '18 **Intro to web development**; Claremont Splash (*educational event for high schoolers*)
- Spring '18 **Deepfakes and deceptive technologies**; Claremont Splash
- Fall '17 **Intro to web development**; 5C Hackathon

SELECTED WORK EXPERIENCE

- Jun – Sep '23 **IoT Design Fellow**, Consumer Reports
Conducted four studies (surveys, focus groups, and user studies) to understand consumer perspectives on IoT security and privacy labels, with two other fellows.
- Sep '19 – Jun '21 **Software developer**, Epic Systems
Developed backend infrastructure and data ingestion for [Cosmos](#), a HIPAA-regulated dataset of >100 million patients' electronic health records supporting research and data-driven healthcare.
- Jun – Aug '19 **Programmer**, Virginia Tech Ecosystem Dynamics and Forecasting Lab
Contributed [bug fixes](#) to the open-source General Lake Model project and created a QA/QC script for ecological data from field sensors.
- May – Jul '18 **Researcher**, University of North Carolina at Charlotte REU in Socially Relevant Computing
Co-led research in usable security and privacy leading to a publication in 2019; won first place in the REU research poster competition. Assisted in data analysis for a [publication by Alqhatani and Lipford in SOUPS '19](#), for which I am named in the acknowledgments.
- Jun – Aug '17 **Teaching assistant**, Northwestern University Center for Talent Development
Co-designed and co-taught *HTML & CSS Honors*; served as teaching assistant for *Literary Analysis Honors: The Turing Test, Artificial Intelligence, & the Human Program* (both courses equivalent to a one-semester high school class).

SELECTED SERVICE

- Fall '23 – Present **Chair of Community Building**, UMD CS Graduate Student Committee
Managing the department's peer mentoring program, as well as regular student-organized community-building events including practical workshops and socials; personally mentored eight new graduate students.
- Fall '23 – Present **Project mentor**, UMD Tech + Research workshop
Designed two sprint-style (~13 hours for teams of 8) research projects in security and privacy, and mentored women undergraduates as they completed them over the course of a weekend (Oct '23 and '24).
- Spring '22 – Pres. **Committee member**, College Park Committee for a Better Environment
Leading a team of three committee members (appointed by City Council) in drafting a climate action plan for College Park, for which I have been meeting with the mayor, city councilors, city staff, and conducting participatory info sessions at local civic associations to ground policymaking in community input. Planning sustainability-oriented community events and writing letters to the city government advising action on energy efficiency, road de-icing practices, etc.
- Fall '21 – Present **Coordinator**, Maryland Cybersecurity Center reading group
Planning weekly research paper discussions, practice talks, invited talks, and workshops for a group of 20+; facilitating discussion.
- Jan '20 – Jun '21 **Team leader**, 350 Madison
Led a team of six volunteers that successfully advocated for the City of Madison to implement the [Building Energy Savings Program](#) to track and improve energy efficiency in commercial buildings. Received one of two Outstanding Volunteer Recognitions in 2020.

- Sep '17 – May '19 **Organizer**, Pomona College Tech for Good (student organization)
Organized three talks by experts in technology, law, and ethics (median attendance of 80), as well as related discussion groups. As part of a project team, worked with a nonprofit serving local low-income communities to improve their website.
- Aug '16 – May '17 **Peer mentor**, Pomona College Asian American Mentor Program
Mentored ten first-year students; organized activities on history, diversity, social justice.

EXTERNAL PEER REVIEW (including reviews and sub-reviews)

- **CHI '25/'24** (ACM Conference on Human Factors in Computing Systems)
- **SOUPS '25/'24** (Symposium on Usable Privacy and Security)
- **ESORICS '25** (European Symposium on Research in Computer Security)
- **CSCW '24** (ACM Conference on Computer-Supported Cooperative Work & Social Computing)
- **IEEE S&P '23** (IEEE Symposium on Security and Privacy)
- **International Journal of Human-Computer Studies '23**

SELECTED AWARDS

- Fall '23 **Maryland Cybersecurity Center Seed Grant**, UMD
Awarded \$1,890 to fund a research proposal on perceptions of tracking and inference in VR.
- Spring '19 **Paul B. Yale Computer Science Prize**, Pomona College
Awarded to three outstanding seniors majoring in CS.
- Spring '19 **Science, Technology, and Society Prize**, Pomona College
Awarded to one outstanding senior majoring in Science, Technology, and Society.