

## Madelyne Z. Xiao

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- EDUCATION**      **Princeton University**, Princeton, NJ      Ph.D., expected May 2026  
Center for Information Technology Policy  
Department of Computer Science
- Stanford University**, Stanford, CA      B.S., B.A., April 2018  
*Bachelor of Science*, Mathematics  
*Bachelor of Arts*, Comparative Literature
- WORK & RESEARCH EXPERIENCE**      **CyLab, Carnegie Mellon University**      June 2025 - present  
*Visiting Researcher*      Pittsburgh, PA
- Advised by Sarah Scheffler, Assistant Professor in Carnegie Mellon University's Department of Engineering and Public Policy.
  - Current research projects include a security and privacy analysis of age verification applications.
- Center for Information Technology Policy**      August 2021 - present  
*Ph.D. candidate*      Princeton, NJ
- Advised by Jonathan Mayer, Associate Professor in Princeton's Department of Computer Science and School of Public and International Affairs.
  - Recent research projects broadly address crowd-driven content moderation via Twitter's Community Notes program, detection of misinformation and influence operations, and information security of journalistic investigations.
- The New Yorker**      July 2019 - Aug. 2021  
*Editorial Staff*      New York City, NY
- As a fact-checker, liaised with editors and writers to ensure the accuracy of articles for print and web; conducted research and edited drafts for factual rigor. Collaborating authors include Dexter Filkins, Margaret Talbot, Kathryn Schulz, and Peter Hessler.
  - Previously, as an editorial producer, coordinated the digitization of print articles; designed and implemented workflow improvements in JavaScript and Python.
- Stanford Journalism Department**      May 2016 - May. 2017  
*Research Assistant*      Stanford, CA
- Worked with journalists from the Seattle Times and Peninsula Press to design and execute a large-scale data story on discriminatory police traffic stop practices.
  - These datasets and analysis pipelines formed the basis for the Stanford Open Policing Project.
- PUBLICATIONS**      **Madelyne Xiao**, Jonathan Mayer. *SoK: Machine Learning for Misinformation Detection*. USENIX Security 2025.
- Madelyne Xiao**, Andrew Sellars, Sarah Scheffler. *When Anti-Fraud Laws Become a Barrier to Computer Security Research*. ACM CS+Law 2025.
- Madelyne Xiao**, Palak Jain, Micha Gorelick, Sarah Scheffler. *Synopsis: Secure and Private Trend Inference from Encrypted Semantic Embeddings*. In submission 2024.
- Madelyne Xiao**, Mona Wang, Anunay Kulshrestha, Jonathan Mayer. *Account Verification on Social Media: User Perceptions and Paid Enrollment*. USENIX Security 2023.

<b>INVITED TALKS &amp; GUEST LECTURES</b>	<p><i>Notes on Notes: An Audit of Twitter/X's Community Notes.</i> Poster at the New Directions in Social Algorithms Workshop at Yale University, October 2025.</p> <p><i>Secret Vector Search: Secure and Private Content Querying with Semantic Embeddings.</i> Invited talk at the Re-Imagining Cryptography and Privacy (ReCAP) Workshop at Tufts University, May 2024.</p> <p><i>Systematizing machine-learning approaches to automated misinformation detection.</i> Invited plenary talk at the Yale Information Society's Propaganda and Emerging Technologies Conference at Yale Law School, April 2024.</p> <p><i>Privacy-preserving analytics on encrypted message embeddings.</i> Invited talk at Aileen Nielsen's Privacy Law class at Harvard Law School, November 2023.</p> <p><i>Community Notes, bridging systems, and algorithmic diplomacy.</i> Guest lecture for Arvind Narayanan's Ethics of Computing class, October 2023.</p> <p><i>User Perception of Account Verification on Social Media.</i> Invited talk at the 7th Workshop on Technology and Consumer Protection (IEEE ConPro '23), San Francisco, CA. May 2023.</p>
<b>FUNDING</b>	<p>National Science Foundation Graduate Research Fellowship (3 years of graduate study).</p> <p>Gordon Wu Fellowship (first-year fellowship in the School of Engineering at Princeton).</p> <p>IEEE Symposium on Foundations of Computer Science (FOCS) 2019 travel grant. Nov. 9-12, 2019. Baltimore, MD.</p> <p>Programming Languages Mentoring Workshop, ACM SIGPLAN International Conference on Functional Programming. Aug. 16-22, 2019. Berlin, Germany.</p> <p>Helen Gurley Brown Fellowship, American Museum of Natural History. Sept. 2018 - Aug. 2019. New York, NY (1 year residency).</p>
<b>SERVICE</b>	<p>USENIX Security Program Committee, 2026</p> <p>ACM Conference on Fairness, Accountability, and Transparency (FAccT) Program Committee, 2025</p> <p>Reimagining Cryptography and Privacy (ReCAP) Program Committee, 2025</p> <p>USENIX Security External Reviewer, 2025</p> <p>Eurocrypt External Reviewer, 2023</p> <p>Princeton Computer Science Graduate Council, 2022-2023</p> <p>Princeton Computer Science Pre-Admissions Mentorship Program, 2022-2023</p> <p>FAccT External Reviewer, 2022</p>