

Yuxi Wu

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Summary I'm a PhD candidate in computer science specializing in human-computer interaction and computer-supported cooperative work. I study social cybersecurity and conduct mixed-methods design research on grassroots collective action for user privacy.

Education **Georgia Institute of Technology** *Ph.D., Computer Science.* exp. 2024.
Advised by Sauvik Das and W. Keith Edwards.

University of Chicago *M.S., Computational Analysis & Public Policy.* 2018.

University College London *B.A., Economics and Business.* 2015.

Current Projects Design fiction and story completion for privacy collective action tools (dissertation project).
Predicting user concern over permissions with physical context (with Google).
Physicalizing end-user security and privacy (with Youngwook Do).

Awards **JP Morgan Chase** *AI Research PhD Fellowship.* 2023.
Georgia Tech *President's Fellowship.* 2019 to 2023.
CSCW *Best Paper Honorable Mention.* 2021.

Conference and Journal Papers **Yuxi Wu**, Sydney Bice, W. Keith Edwards, Sauvik Das. The Slow Violence of Surveillance Capitalism: How online behavioral advertising harms people. In *Proceedings of the 2023 ACM Conference on Fairness, Accountability, and Transparency (FAccT '23)*. Chicago, IL, June 2023.

Yuxi Wu, W. Keith Edwards, Sauvik Das. SoK: Social Cybersecurity. In *2022 IEEE Symposium on Security and Privacy (SP)*. San Francisco, CA, May 2022.

Yuxi Wu, Sauvik Das, W. Keith Edwards. "A Reasonable Thing to Ask For": Towards a Unified Voice in Grassroots Privacy Collective Action. In *Proceedings of the 2022 CHI Conference on Human Factors in Computing Systems (CHI '22)*. New Orleans, LA, April 2022.

Youngwook Do, Jung Wook Park, **Yuxi Wu**, Avinandan Basu, Dingtian Zhang, Gregory D. Abowd, Sauvik Das. Smart Webcam Cover: Exploring the Design of an Intelligent Webcam Cover to Improve Usability and Trust. In *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT '21)*. December 2021.

Sindhu Kiranmai Ernala, Stephanie Yang, **Yuxi Wu**, Rachel Chen, Kristen Well, Sauvik Das. Exploring the Utility Versus Intrusiveness of Dynamic Audience Selection on Facebook. In *Proceedings of the ACM on Human-Computer Interaction (CSCW '21)*. October 2021.
*Best Paper Honorable Mention.

Yuxi Wu, Panya Gupta, Miranda Wei, Yasemin Acar, Sascha Fahl, Blase Ur. "Your Secrets Are Safe: How Browsers' Explanations Impact Misconceptions About Private Browsing Mode". *Proceedings of the Web Conference (WWW)*. Lyon, France, April 2018.

Invited Papers Das, Sauvik, W. Keith Edwards, DeBrae Kennedy-Mayo, Peter Swire, and **Yuxi Wu**. "Privacy for the People? Exploring Collective Action as a Mechanism to Shift Power to Consumers in End-User Privacy." *IEEE Security & Privacy* 19, no. 5 (2021): 66-70.

Invited Talks **Designing collective action systems for user privacy.** Guest lecture, Carnegie Mellon University (Host: Sauvik Das). March 2023.

Privacy for the People. Guest lecture, Georgia Tech (Host: Alyssa Sheehan). July 2021.

Teaching

College of Computing, Georgia Tech

TA, Human-Computer Interaction. Fall 2023.

Co-Instructor, Usable Privacy and Security. Spring 2023.

TA, Computing, Society, and Professionalism. Fall 2022.

TA, User Interface Design. Summer 2021.

Harris School of Public Policy, University of Chicago

TA, Data Skills for Public Policy (R). Winter 2018.

TA, Introduction to Programming for Public Policy (Python). Fall 2017.

Skills

Programming/Technical: Python (including Pandas, PyTorch, Scikit-learn, statsmodels), SQL, Google BigQuery, R (tidyverse), Stata, HTML/CSS, L^AT_EX

Research: survey and questionnaire instrument design, qualitative data analysis, quantitative data analysis, interviewing, discussion moderation, design fiction, storyboarding

Recent Work Experience

Democratic National Committee

Mobilization Analytics Manager. July 2018 to July 2019.

Led Mobilization data team through data warehouse migration from Vertica to BigQuery. Designed behavioral experiments for grassroots fundraising and voter outreach via email, SMS, and direct mail. Modeled donor engagement and prospects. Created, maintained, and overhauled reporting pipelines for the DNC and outside vendors.

Dept. of Computer Science, The University of Chicago

Research Assistant. May 2017 to June 2018.

Worked with Prof. Blase Ur to research user misconceptions about private browsing.

Urban Center for Computation and Data

Research Assistant. Summer 2017.

Performed time series analyses and density-based clustering of Chicago crime data.

Grants

ACM FAccT Travel Grant (\$1400). June 2023.

IEEE S&P Student Travel Grant (\$1300). May 2022.

Georgia Tech GVU Travel Grant (\$300). May 2022.

Service

Program Committee

USEC '24

Reviewer

CHI '21-'24 , CHI LBW '22, CSCW '22, DIS '21

Student Volunteer

CHI '22, IEEE S&P '22