

Camille Cobb

Assistant Professor, Computer Science Department,
University of Illinois Urbana-Champaign, Urbana, IL 61801, USA

EDUCATION

University of Washington

Ph.D., Computer Science and Engineering

Seattle, WA

June 2019

M.S., Computer Science and Engineering

June 2014

WORK EXPERIENCE

Academic Work and Undergraduate Research Experience

- Assistant Professor in CS at UIUC August 2021-present
- Postdoctoral Researcher in CMU's CyLab July 2019-July 2021
- Distributed Research Experience for Undergraduates (DREU): "Medical Process Visualization." Advised by Lori Clarke at UMass Amherst. Summer 2011.
- Collaborative Research Experience for Undergraduates (CREU): "Dynamic Analysis of Web Application Access Logs for Software Testing." Advised by Sara Sprenkle. 2010-2011.
- DREU: "Investigating Data Models for Automatically Generating Tests for Web Applications." Advised by Sara Sprenkle and Lori Pollock at University of Delaware. Summer 2009. //
- Senior Honors Thesis: "Exploring Text-Based Analysis of Test-Case Dependencies of Web Applications" Advised by Sara Sprenkle. 2011-2012

Industry Work Experience

- Software Engineering Intern with Google's Geo-Oceans Team. Summer 2013 and 2014.

TEACHING

University of Illinois Urbana-Champaign, Computer Science Department

Instructor, CS598 Special Topics - Usable Security & Privacy

Fall 2022

Instructor, CS598 Special Topics - Inclusive Cybersecurity & Privacy

Fall 2021

Instructor, CS464 Topics in Societal and Ethical Impacts of Computer Technology - Cyberdystopia Spring 2022, Spring 2023

University of Washington, Paul G. Allen School of Computer Science and Engineering

Teaching Assistant, CSE 564 (Graduate Computer Security and Privacy)

Winter 2018

Teaching Assistant, CSE 484 (Undergraduate Computer Security and Privacy)

Fall 2016

Other Teaching Experience:

Teaching Assistant, UW Dance 237 (Ballroom Dance)

Spring 2019

Group Leader for a UW HCDE Directed Research Group

2013-2014

Guest Lectures "Human Factors in Security and Privacy." Lecture given in CS 461 Computer Security I (Fall 2021 and Fall 2022) and in the ICSSP seminar course

PEER-REVIEWED PUBLICATIONS

- "A User-Centric Evaluation of Smart Home Resolution Approaches for Conflicts Between Routines." A. Zaidi, R. Yang, V. Koshy, C. Cobb, I. Gupta, K. Karahalios. UbiComp / ISWC October 2023.
- "Speculative privacy attitudes and concerns about AR glasses data collection." A. Gallardo, C. Choy, J. Juneja, E. Bozkir, C. Cobb, L. Bauer, and L.F. Cranor. To appear Privacy Enhancing Technologies Symposium (PETS) July 2023.
- "Towards usable security analysis tools for trigger-action programming." M. McCall, E. Zeng, F. H. Shezan, M. Yang, L. Bauer, A. Bichhawat, C. Cobb, L. Jia, and Y. Tian. To appear Symposium on Usable Privacy and Security (SOUPS) August 2023.
- "I would have to evaluate their objections": Privacy tensions between smart home device owners and incidental users. Camille Cobb, Sruti Bhagavatula, Kalil Anderson Garrett, Alison Hoffman, Varun Rao, Lujo Bauer. Privacy Enhancing Technologies Symposium (PETS) July 2021.

- Would You Rather: A Focus Group Method for Eliciting and Discussing Formative Design Insights with Children. Lucy Simko, Britnie Chin, Sungmin Na, Harkiran Kaur Saluja, Tian Qi Zhu, Tadayoshi Kohno, Alexis Hiniker, Jason Yip, Camille Cobb. Interaction Design and Children (IDC) June 2021.
- Tianshi Li, Camille Cobb, Jackie (Junrui) Yang, Sagar Baviskar, Yuvraj Agarwal, Beibei Li, Lujo Bauer, Jason I. Hong. What Makes People Install a COVID-19 Contact-Tracing App? Understanding the Influence of App Design and Individual Difference on Contact-Tracing App Adoption Intention. Special Issue “IoT for Fighting COVID-19” of Elsevier Pervasive and Mobile Computing (PMC) Journal August 2021. Best Research Paper 2019-2021 Award.
- “You Gotta Watch What You Say”: Surveillance of Communication with Incarcerated People. Kentrell Owens, Camille Cobb, Lorrie Cranor. Conference on Human Factors in Computing Systems (CHI) May 2021. *Best paper honorable mention (top 5%)*.
- How Risky Are Real Users’ IFTTT Applets? Camille Cobb, Milijana Surbatovich, Anna Kawakami, Mahmood Sharif, Lujo Bauer, Anupam Das, Limin Jia. Symposium on Usable Privacy and Security (SOUPS) August 2020.
- A Privacy-Focused Systematic Analysis of Online Status Indicators. Camille Cobb, Lucy Simko, Tadayoshi Kohno, Alexis Hiniker. Privacy Enhancing Technologies Symposium (PETS) July 2020.
- User Experiences with Online Status Indicators. Camille Cobb, Lucy Simko, Tadayoshi Kohno, Alexis Hiniker. Conference on Human Factors in Computing Systems (CHI) April 2020.
- How Public Is My Private Life? Privacy in Online Dating. Camille Cobb, Tadayoshi Kohno. International World Wide Web Conference (WWW) April 2020.
- Computer security for data collection technologies. Camille Cobb*, Samuel Sudar*, Nicholas Reiter, Richard Anderson, Franziska Roesner, and Tadayoshi Kohno. Development Engineering, Volume 3, 2018. Journal version of prior work presented at ICTD ‘16.
- Computer Security for Data Collection Technologies. Camille Cobb*, Samuel Sudar*, Nicholas Reiter, Richard Anderson, Franziska Roesner, and Tadayoshi Kohno. International Conference on Information & Communication Technologies and Development (ICTD) June 2016.
- Designing for the deluge: understanding & supporting the distributed, collaborative work of crisis volunteers. Camille Cobb, Ted McCarthy, Annuska Perkins, Ankitha Bharadwaj, Jared Comis, Brian Do, and Kate Starbird. ACM Conference on Computer Supported Cooperative Work (CSCW) February 2014.
- Leveraging user-privilege classification to customize usage-based statistical models of web applications. Sara Sprenkle, Camille Cobb, and Lori Pollock. Fifth International Conference on Software Testing, Verification and Validation (ICST) April 2012.

OTHER PUBLICATIONS

- Tadayoshi Kohno, Camille Cobb, Ada Lerner, Michelle Lin and Adam Shostack. The Buffet Overflow Café. IEEE Security & Privacy Journal July 2022.
- Raima Mathew, Mutmaina Adebayo, and Camille Cobb. A Meta-Analysis on the Diversity of Security and Privacy Research. 7th Workshop on Inclusive Privacy and Security (WIPS) August 2022.
- Mutmaina Adebayo, Raima Mathew, Camille Cobb. Who are we helping in security and privacy research? Poster at the UIUC Undergraduate Research Symposium April 2022.

MENTORING STUDENT RESEARCHERS

Includes independent study courses and less formal research mentoring.

UIUC PhD student advisees

- **Yi-Shyuan Chiang**, Spring 2022-present
- **Omar Khan**, Fall 2022-present
- **Yeeun Jo**, Fall 2022-present

UIUC PhD students advised on individual projects

- **Mahnour Jameel**, Fall 2022-present
- **Sophia Yang**, Spring 2022

*Denotes equal contributions, listed in alphabetical order

- **Ali Zaidi**, Fall 2021-present
- **Rui Yang**, Fall 2021-Spring 2022

UIUC undergraduate researchers

- **Sailaja Nallacheruvu**, Spring 2023-present
- **Effie Karas**, Fall 2022-Spring 2023
- **Saloni Vaishnav**, Fall 2022
- **Rebecca Xun**, Summer 2022
- **Mutmaina Adebayo**, Fall 2021-present
- **Esther Lee**, Spring 2022

UIUC masters students

- **Raima Mathew**, MS completed Spring 2022. Thesis title “Who is security and privacy research for? Analysis on meta-data from relevant publications.”
- **Andres Perez**, Spring 2022
- **Kevyn Cheng**, Fall 2021-Spring 2022

Students from beyond UIUC

- **Leona Lassak**, PhD student at Ruhr-University Bochum, August 2021-Fall 2022
- **Andrea Gallardo**, PhD student at CMU, Fall 2020-Spring 2023
- **Kalil Anderson Garrett**, PhD student at CMU, Fall 2020-Summer 2021
- **Kentrell Owens**, CMU CyLab Masters Student (Currently PhD student at UW Allen School), August 2019 - January 2021
- **Diva-Oriane Marty**, CMU CyLab Undergraduate (First year), June 2020 - September 2020
- **Shrutika Ruhela**, CMU CyLab Undergraduate (Fourth year), January 2020 - May 2020
- **Alison Hoffmann**, CMU CyLab Undergraduate (Second year), August 2019 - December 2019
- **Varun Rao**, CMU CyLab Masters Student, August 2019 - December 2019
- **Anna Kawakami**, Wellesley College Undergraduate (Second year) and CyLab REU participant, June 2019 - August 2019
- **Clemend Zhong**, UW Allen School Undergraduate (First year), July 2018 - February 2019
- **Kayla Butler**, UW Allen School Undergraduate (First/Second year), July 2017 - July 2018

PROFESSIONAL SERVICE

Internal Service at UIUC

- Graduate Admissions Committee, 2021-2022
- Secondary member on Faculty Search Committee for Social Computing, 2021-2023
- CS Advisory Committee, 2022-2023

External Service

- **Program committee member**, Workshop on Privacy in the Electronic Society (WPES) 2020
- **Program committee member**, Symposium on Usable Privacy and Security (SOUPS) 2023
- **Program committee member**, USENIX Security Symposium 2021, 2022, 2023
- **Program committee member**, Privacy Enhancing Technologies Symposium (PETS) 2021, 2022
- **Poster session co-chair**, Symposium on Usable Privacy and Security (SOUPS) 2021, 2022
- **Provided external or sub-reviews for:** Network and Distributed System Security Symposium (NDSS), IEEE Secure Development Conference (SecDev), Symposium on Usable Privacy and Security (SOUPS), Privacy Enhancing Technologies Symposium (PETS), Designing Interactive Systems (DIS), Conference On Computer-Supported Cooperative Work And Social Computing (CSCW)

- **Invited Participant** at IEEE Workshop on IoT Security Building Code, May 2017

PRESENTATIONS

Conference Talks

- Camille Cobb, Sruti Bhagavatula, Kalil Anderson Garrett, Alison Hoffman, Varun Rao, Lujo Bauer. “I would have to evaluate their objections”: Privacy tensions between smart home device owners and incidental users. July 2021 at PoPETS.
- Camille Cobb, Milijana Surbatovich, Anna Kawakami, Mahmood Sharif, Lujo Bauer, Anupam Das, Limin Jia. “How Risky Are Real Users’ IFTTT Applets?” August 2020 at SOUPS.
- Camille Cobb, Lucy Simko, Tadayoshi Kohno, Alexis Hiniker. “A Privacy-Focused Systematic Analysis of Online Status Indicators.” July 2020 at PoPETS.
- Camille Cobb, Tadayoshi Kohno. “How Public Is My Private Life? Privacy in Online Dating.” April 2017 at WWW.
- Camille Cobb, Ted McCarthy, Annuska Perkins, Ankitha Bharadwaj, Jared Comis, Brian Do, and Kate Starbird. “De-signing for the deluge: understanding & supporting the distributed, collaborative work of crisis volunteers.” Feb 2014 at CSCW.

Invited Talks

- Camille Cobb. “What we miss if we don’t talk to people: Understanding users’ diverse and nuanced privacy needs.” June 2022 at UIUC’s CS Summer Camps.
- **Camille Cobb**. “Positive & negative impacts of technology and the implications of access.” April 2022 as a keynote for the UIUC WCS Pitchathon.
- Camille Cobb. “Peer-to-Peer Privacy in Social and Communications Applications.” February 2019 at Indiana University’s Security & Privacy in Informatics, Computing, and Engineering (SPICE) center
- Camille Cobb. “Privacy in Online Dating.” November 2017 at Seattle Science Slam to a general audience.

Lightning Talks

- Camille Cobb. “Presentations of Security and Privacy on Television.” August 2018 at USENIX Security & Privacy.

Posters

- Camille Cobb. “How Risky Are Real Users’ IFTTT Applets?” CyLab Partners Conference. September 2020.
- Camille Cobb. “Exploring Text-Based Analysis of Test-Case Dependencies of Web Applications.” SIGCSE Student Research Competition. March 2012.
- Camille Cobb and Sara Sprenkle. “Exploring Text-Based Analysis of Test-Case Dependencies of Web Applications. CRA/CDC NSF Site Visit.” September 2011.
- Camille Cobb and Sara Sprenkle. “Toward a User-Session Dependency Model for Automatically Testing Web Applications.” Tapia Celebration of Diversity in Computing. April 2011.
- Katie Baldwin, Camille Cobb, Carrie Hopkins, Sara Sprenkle, and Lori Pollock. “Exploring Data Models for Automatically Generating Tests for Web Applications.” Grace Hopper Celebration of Women in Computing. September 2009.

OUTREACH AND COMMUNITY INVOLVEMENT

Education, Diversifying Participation in Computer Science

- Participated in the PILOT seminar as a panelist, Fall 2021
- Attended and gave feedback on a student practice job talk via PILOT seminar, Fall 2021
- Panelist in UIUC WCS’s Code Ada Hackathon 2021 Keynote Panel, Fall 2021
- Judge in UIUC WCS’s Code Ada Hackathon 2022, Fall 2022
- Panelist for Undergraduate Admitted Women Day, Spring 2022, Spring 2023
- Keynote speaker for UIUC WCS’s Pitchathon event, Spring 2022
- Panelist at UIUC’s Summer REU Lunch & Learn, Summer 2022, (planned) Summer 2023

- Research presentation at UIUC Summer Camp (combined group of students in IoT camp and introduction to programming camp), Summer 2022
- Attended UIUC Postdoc Meeting Nov 2022
- Participated in WCS "Research at UIUC event" in February 2023

- Guest Speaker at UW CSE Summer Camp and Engineering Exploration Program, 2018
- Security and Privacy lightning talk for UW Undergraduate Summer Research Seminar, 2018
- Mentor to undergraduate women in CSE at UW, 2016 - 2017
- Volunteer for annual UW CSE Computing Open House, 2014-2017
- Mentor and Mentor Coordinator for the Paul Allen Computing Challenge, 2014 and 2015
- Volunteer undergraduate tutor for CSE 312 (Foundations of Computing II), 2015
- Computer science outreach presentation at Seattle middle school, 2012

Other

- Service to the department (now the Paul G. Allen School) through coordinating weekly social events (2013–2014) and contributing to department-wide networking, outreach, recruitment, diversity and inclusion, and social events.
- Volunteer at Greyhound Dog Rescue, 2013 - 2014
- Volunteer at Therapeutic Horseback Riding Facility, 2008 - 2012
- Women in Technology and Science Physics Chair at undergraduate institution, 2009 - 2010
- Women in Math and Science Member at undergraduate institution, 2010 - 2012

AWARDS AND HONORS

Teaching Awards

- Ranked as excellent by students Fall 2021, Spring 2022
- Completed Collins Scholars program Spring 2022

National Research Awards

- NSF Graduate Research Fellowship (2014)
- CRA Outstanding Undergraduate Researcher Award Honorable Mention (2012)

Other Research Awards

- Winner of USENIX Security & Privacy Lightning Talk (2018)

- Recognized as a Noteworthy Reviewer for USENIX Security 2023

Scholarships

- UW CSE Educator's Fellowship
- National Merit Scholar
- Virginia Foundation of Independent Colleges Grant
- Holbrook Scholarship

REFERENCES

Available upon request.