

Camille Cobb

Postdoctoral Researcher, CyLab Security and Privacy Institute,
Carnegie Mellon University, Pittsburgh, PA 15213, USA

EDUCATION

University of Washington

Ph.D., Computer Science and Engineering

M.S., Computer Science and Engineering

Seattle, WA

June 2019

June 2014

Washington and Lee University

B.A., Computer Science

B.S., Physics

Minor, German

Lexington, VA

August-2012

August-2012

PEER-REVIEWED PUBLICATIONS

- “You Gotta Watch What You Say”: Surveillance of Communication with Incarcerated People. Kentrell Owens, Camille Cobb, Lorrie Cranor. *In Submission*.
- 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.

MENTORING STUDENT RESEARCHERS

- **Kentrell Owens**, CMU CyLab Masters Student (currently PhD student at UW Allen School), August 2019 - Present
- **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

*Denotes equal contributions, listed in alphabetical order

- **Kayla Butler**, UW Allen School Undergraduate (First/Second year), July 2017 - July 2018

PROFESSIONAL SERVICE

- **Program committee member**, Workshop on Privacy in the Electronic Society (WPES) 2020
- **Program committee member**, IEEE Symposium on Security and Privacy 2021
- **Poster session co-chair**, Symposium on Usable Privacy and Security (SOUPS) 2021
- **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)
- **Invited Participant** at IEEE Workshop on IoT Security Building Code, May 2017

TEACHING EXPERIENCE

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

Student Assistant for Introductory CS Lab at Washington and Lee

Winter 2010

OUTREACH AND COMMUNITY INVOLVEMENT

Education, Diversifying Participation in Computer Science

- Guest Speaker at CSE Summer Camp and Engineering Exploration Program, 2018
- Security and Privacy lightning talk for Undergraduate Summer Research Seminar, 2018
- Mentor to undergraduate women in CSE, 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

Department Service

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.

Other

- Volunteer at Greyhound Dog Rescue, 2013 - 2014
- Volunteer at Therapeutic Horseback Riding Facility, 2008 - 2012
- Women in Technology and Science Physics Chair at W&L, 2009 - 2010
- Women in Math and Science Member at W&L, 2010 - 2012

PRESENTATIONS

Conference Talks

- 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. “Designing for the deluge: understanding & supporting the distributed, collaborative work of crisis volunteers.” Feb 2014 at CSCW.

Invited Talks

- 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.

PRESENTATIONS

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)

Scholarships

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

Other Awards

- National Honor Society
- Phi Beta Kappa Honor Society
- Phi Eta Sigma Honor Society
- Sigma Pi Sigma Physics Honor Society
- W&L Physics Sophomore Student of the Year

WORK EXPERIENCE

Academic Work and Undergraduate Research Experience

- Postdoctoral Researcher in CMU's CyLab July 2019-Present
- 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 at W&L. 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 at W&L. 2011-2012

Industry Work Experience

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