

# Camille Cobb

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## RESEARCH SUMMARY

I am broadly interested in computer Security & Privacy and HCI. My thesis research focused on understanding how users' expectations of privacy may be violated by other users of social and communication applications, without leveraging special privileges or technical skills. My current research, conducted in my role as a postdoctoral researcher collaborating with Lujo Bauer at CMU, considers the privacy impacts of smart home technology on "incidental users" – people who come into contact with *other people's* smart home devices, possibly having their data collected without their awareness or consent.

## EDUCATION

**University of Washington**, Seattle, Washington, USA

Doctor of Philosophy (Ph.D.), Computer Science and Engineering 2019

Master of Science (M.S.), Computer Science and Engineering 2014

**Washington and Lee University**, Lexington, Virginia, USA

Bachelor of Arts (B.A.), Computer Science 2012

Bachelor of Science (B.S.), Physics 2012

Minor, German

## HONORS/AWARDS **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

## PEER-REVIEWED PUBLICATIONS

"A Privacy-Focused Systematic Analysis of Online Status Indicators." [Camille Cobb](#), Lucy Simko, Tadayoshi Kohno, Alexis Hiniker. PETS 2020) Jul 2020.

"User Experiences with Online Status Indicators." [Camille Cobb](#), Lucy Simko, Tadayoshi Kohno, Alexis Hiniker. CHI 2020) Apr 2020.

"User-to-User Privacy in Social and Communications Applications." [Camille Cobb](#). Doctoral Dissertation) Jun 2019.

"How Public Is My Private Life? Privacy in Online Dating." [Camille Cobb](#), Tadayoshi Kohno. 26th International World Wide Web Conference (WWW '17) Apr 2018.

"Computer security for data collection technologies." [Camille Cobb\\*](#), Samuel Sudar\*, Nicholas Reiter, Richard Anderson, Franziska Roesner, and Tadayoshi Kohno. Development Engineering, Volume 3, 2018 (available Dec 2017). 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 ’16) Jun 2016. Journal version appears in Development Engineering 2018 (full publication information above).

“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. 17th ACM Conference on Computer Supported Cooperative Work (CSCW ’14) Feb 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 ’12) Apr 2012.

<b>STUDENTS</b>	<b>Clemend Zhong</b> , UW Allen School Undergraduate (First year)	Jul 2018 – Feb 2019
	<b>Kayla Butler</b> , UW Allen School Undergraduate (First/Second year)	Jul 2017 – Jul 2018
<b>TEACHING EXPERIENCE</b>	<b>University of Washington</b> , 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
	Group Leader for a UW HCDE Directed Research Group	2013-2014
	Student Assistant for Introductory CS Lab at Washington and Lee	Winter 2010
<b>OUTREACH AND COMMUNITY INVOLVEMENT</b>	<b>Education, Diversifying Participation in Computer Science</b>	
	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 UW CSE Computing Open House	2014, 2015, 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
	Women in Technology and Science Physics Chair (W&L)	2009–2010
	Women in Math and Science Member (W&L)	2010–2012
	<b>Department Service</b>	
	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.	
	<b>Other</b>	
	Invited Participant at IEEE Workshop on IoT Security Building Code	May 2017
	Volunteer at Greyhound Dog Rescue	2013–2014
	Volunteer at Therapeutic Horseback Riding Facility	2008–2012
<b>PRESENTATIONS</b>	<b>Conference Talks</b>	
	<u>Camille Cobb</u> , Lucy Simko, Tadayoshi Kohno, Alexis Hiniker. “A Privacy-Focused Systematic Analysis of Online Status Indicators.” July 2020 at PoPETS.	
	<u>Camille Cobb</u> , Tadayoshi Kohno. “How Public Is My Private Life? Privacy in Online Dating.” April 2017 at WWW.	
	<u>Camille Cobb</u> , 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.	
	<b>Invited Talks</b>	
	<u>Camille Cobb</u> . “Privacy in Online Dating.” November 2017 at Seattle Science Slam to a general audience.	

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\*Denotes equal contributions, listed in alphabetical order

### **Lightning Talks**

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

### **Poster Presentations**

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.

## **WORK**

### **Academic Work Experience**

Postdoctoral Researcher in CMU’s CyLab

July 2019-Present

### **Industry Work Experience**

Software Engineering Intern with Google’s Geo-Oceans Team

Summer 2013 and 2014

### **Undergraduate Research Experiences**

“Medical Process Visualization.” DREU with Lori Clarke at UMass Amherst. (Summer 2011)

“Dynamic Analysis of Web Application Access Logs for Software Testing.” CREU with Sara Sprenkle at W&L. (2010-2011)

“Investigating Data Models for Automatically Generating Tests for Web Applications.” DREU with Sara Sprenkle and Lori Pollock at University of Delaware. (Summer 2009)

“Exploring Text-Based Analysis of Test-Case Dependencies of Web Applications” Senior honors thesis with Sara Sprenkle at W&L. (2011-2012)

## **REFERENCES**

### **Lujo Bauer**

Professor, Electrical & Computer Engineering and Computer Science Carnegie Mellon University  
lbauer@andrew.cmu.edu

### **Tadayoshi Kohn**

Professor, Paul G. Allen School of Computer Science & Engineering, University of Washington  
yoshi@cs.washington.edu

### **Alexis Hiniker**

Assistant Professor of Human Computer Interaction, Information School, University of Washington  
alexisr@uw.edu