

## Sebastian Zimmeck

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### Publications

20. **Compliance Traceability: Privacy Policies as Software Development Artifacts**  
Sebastian Zimmeck, Peter Story, Rafael Goldstein, David Baraka, Shaoyan Li, Yuanyuan Feng, and Norman Sadeh  
Open Day for Privacy, Usability, and Transparency (**PUT**), Stockholm, Sweden, July 2019
19. **MAPS: Scaling Privacy Compliance Analysis to a Million Apps**  
Sebastian Zimmeck,\* Peter Story,\* Abhilasha Ravichander, Daniel Smullen, Ziqi Wang, Joel Reidenberg, N. Cameron Russell, and Norman Sadeh  
19th Privacy Enhancing Technologies Symposium (**PETS**), Stockholm, Sweden, July 2019 (also presented at NESD 2019)  
\* equal contributors
18. **Natural Language Processing for Mobile App Privacy Compliance**  
Peter Story,\* Sebastian Zimmeck,\* Abhilasha Ravichander, Daniel Smullen, Ziqi Wang, Joel Reidenberg, N. Cameron Russell, and Norman Sadeh  
AAAI 2019 Spring Symposium on Privacy-Enhancing Artificial Intelligence and Language Technologies (**PAL**), Palo Alto, CA, USA, March 2019  
\* equal contributors
17. **Analyzing Privacy Policies at Scale: From Crowdsourcing to Automated Annotations**  
Shomir Wilson, Florian Schaub, Frederick Liu, Kanthashree Mysore Sathyendra, Daniel Smullen, Sebastian Zimmeck, Rohan Ramanath, Peter Story, Fei Liu, Norman Sadeh, and Noah A. Smith  
ACM Transactions on the Web (**TWEB**), August 2018
16. **Which Apps have Privacy Policies?**  
Peter Story, Sebastian Zimmeck, and Norman Sadeh  
6th Annual Privacy Forum (**APF**), Barcelona, Spain, June 2018 (also presented at PrivacyCon 2018 and published as Tech Report, CMU-ISR-18-100)

15. **Towards Automatic Classification of Privacy Policy Text (Short Paper)**  
Frederik Liu, Shomir Wilson, Peter Story, [Sebastian Zimmeck](#), and Norman Sadeh  
Tech Report, CMU-ISR-17-118R, CMU-LTI-17-010, Pittsburgh, PA, USA, June 2018
14. **Identifying the Provision of Choices in Privacy Policy Text (Short Paper)**  
Kanthashree Mysore Sathyendra, Shomir Wilson, Florian Schaub, [Sebastian Zimmeck](#), and Norman Sadeh  
Conference on Empirical Methods in Natural Language Processing (**EMNLP**), Copenhagen, Denmark, September 2017
13. **A Privacy Analysis of Cross-device Tracking**  
[Sebastian Zimmeck](#), Jie S. Li, Hyungtae Kim, Steven M. Bellovin, and Tony Jebara  
26th USENIX Security Symposium (**USENIX Security**), Vancouver, BC, CA, August 2017
12. **Using Machine Learning to Improve Internet Privacy**  
[Sebastian Zimmeck](#)  
Columbia University Academic Commons, New York, NY, USA, March 2017
11. **Automated Analysis of Privacy Requirements for Mobile Apps**  
[Sebastian Zimmeck](#), Ziqi Wang, Lieyong Zou, Roger Iyengar, Bin Liu, Florian Schaub, Shomir Wilson, Norman Sadeh, Steven M. Bellovin, and Joel Reidenberg  
24th Network & Distributed System Security Symposium (**NDSS**), San Diego, CA, USA, February 2017 (also presented at SOUPS 2017, PrivacyCon 2017 and PLT 2016)
10. **The Creation and Analysis of a Website Privacy Policy Corpus**  
Shomir Wilson, Florian Schaub, Aswarth Abhilash Dara, Frederick Liu, Sushain Cherivirala, Pedro Giovanni Leon, Mads Schaarup Andersen, [Sebastian Zimmeck](#), Kanthashree Mysore Sathyendra, N. Cameron Russell, Thomas B. Norton, Eduard Hovy, Joel Reidenberg, and Norman Sadeh  
54th Annual Meeting of the Association for Computational Linguistics (**ACL**), Berlin, Germany, August 2016
9. **Demystifying Privacy Policies with Language Technologies: Progress and Challenges**  
Shomir Wilson, Florian Schaub, Aswarth Dara, Sushain K. Cherivirala, [Sebastian Zimmeck](#), Mads Schaarup Andersen, Pedro Giovanni Leon, Eduard Hovy, Norman Sadeh  
LREC 1st Workshop on Text Analytics for Cybersecurity and Online Safety 2016 (**TA-COS**), Portorož, Slovenia, May 2016
8. **“I don’t have a photograph, but you can have my footprints.” – Revealing the Demographics of Location Data**  
Chris Riederer, [Sebastian Zimmeck](#), Coralie Phanord, Augustin Chaintreau, and Steven M. Bellovin  
3rd ACM Conference on Online Social Networks (**COSN**), Palo Alto, CA, USA, November 2015 (also presented at ICWSM 2015, PLSC 2015, NetMob 20015, and COSN 2014)

7. **Privee: An Architecture for Automatically Analyzing Web Privacy Policies**  
Sebastian Zimmeck and Steven M. Bellovin  
 23rd USENIX Security Symposium (**USENIX Security**), San Diego, CA, USA, August 2014 (also presented at PLSC 2014 and FopNaC 2014)
6. **When Enough is Enough: Location Tracking, Mosaic Theory, and Machine Learning**  
 Steven M. Bellovin, Renée M. Hutchins, Tony Jebara, and Sebastian Zimmeck  
 8 N.Y.U. J.L. Liberty, 556 (2014) (also presented at PLSC 2013)
5. **The Information Privacy Law of Web Applications and Cloud Computing**  
Sebastian Zimmeck  
 29 Santa Clara Computer & High Tech. L.J. 451 (2013)
4. **A Game-theoretic Model for Reasonable Royalty Calculation**  
Sebastian Zimmeck  
 22 Alb. L.J. Sci. & Tech. 357 (2012)
3. **Use of Functional Claim Elements for Patenting Computer Programs**  
Sebastian Zimmeck  
 12 J. High Tech. L. 168 (2011)
2. **Patent Eligibility of Programming Languages and Tools**  
Sebastian Zimmeck  
 13 Tul. J. Tech. & Intell. Prop. 133 (2010)
1. **Grundlagen der Nutzungsrechtsübertragung an Urheberrechtlich Geschützten Computerprogrammen durch den Lizenznehmer**  
Sebastian Zimmeck  
 1 ZGE 324 (2009)

## Talks

14. **Mobile App Tracking: Technologies and Privacy Challenges**  
 - October 31, 2019, Class Lecture in Paul Schwartz's 276.32 - Topics in Privacy and Security Law, University of California, Berkeley
13. **Transparency & Notice: Third Parties and Cross-Device Ad Targeting in the Context of the CCPA**  
 - October 30, 2019, Data Protection in the 2020s: Industry Symposium on the CCPA, Samba TV, San Francisco, CA (Panel Discussion)
12. **On Big Data**  
 - October 3, 2019, Financial Economics Study Group, Wesleyan University

11. **Compliance Traceability: Privacy Policies as Software Development Artifacts (Lightning Talk)**  
- July 15, 2019, Open Day for Privacy, Usability, and Transparency (PUT), Royal Institute of Technology, Stockholm, Sweden
10. **Alternative Data**  
- April 2, 2019, Financial Economics Study Group, Wesleyan University
9. **MAPS: Scaling Privacy Compliance Analysis to a Million Apps**  
- July 18, 2019, 19th Privacy Enhancing Technologies Symposium, Royal Institute of Technology, Stockholm, Sweden  
- July 9, 2019, Financial Economics Study Group, Wesleyan University  
- March 22, 2019, New England Security Day (NESD), UMass Amherst
8. **Social Debt: Why Software Developers Need to Go Beyond Tech**  
- February 8, 2019, Natural Sciences and Mathematics (NSM) Luncheon, Wesleyan University
7. **A Random Walk Down Silicon Alley**  
- November 15, 2018, Financial Economics Study Group, Wesleyan University
6. **A Privacy Analysis of Cross-device Tracking**  
- August 18, 2017, 26th USENIX Security Symposium (USENIX Security), Vancouver, BC, CA  
- February 2, 2017, Current Topics in Privacy Seminar, Carnegie Mellon University
5. **Automated Privacy Requirement Analysis for Mobile Apps**  
- July 12, 2017, 13th Symposium on Usable Privacy and Security (SOUPS) (Tutorial and Poster Session), Santa Clara, CA  
- June 1, 2017, Privacy Law Scholars Conference 2017, Berkeley, CA  
- January 12, 2017, PrivacyCon 2017, Washington, DC  
- November 17, 2016, AAAI Fall Symposium 2016, Arlington, VA  
- November 16, 2016, Societal Computing Practicum, Carnegie Mellon University  
- October 27, 2016, Current Topics in Privacy Seminar, Carnegie Mellon University
4. **Privacy Implications of Machine Learning**  
- February 24, 2016, COMS W3410 - Computers and Society, Columbia University
3. **Privee: An Architecture for Automatically Analyzing Web Privacy Policies**  
- August 6, 2015, CUPS Lunchtime Seminar, Carnegie Mellon University  
- February 13, 2015, Google PhD Summit (Poster Session Talk), Google New York City  
- December 3, 2014, Department of Computer Science, Stony Brook University  
- September 17, 2014, Privacy Research Group, New York University  
- August 20, 2014, 23rd USENIX Security Symposium (USENIX Security), San Diego, CA  
- June 6, 2014, Privacy Law Scholars Conference 2014, Berkeley, CA
2. **Leveraging Technology to Improve Notice and Choice**  
- June 27, 2014, FoPNaC 2014, Carnegie Mellon University (Panel Discussion)

1. **When Enough is Enough: Location Tracking, the Fourth Amendment, and Machine Learning**  
- March 28, 2014, IGERT Distinguished Speaker Series, Columbia University

## **Program Committee Service**

AAAI 2019 Spring Symposium on Privacy-Enhancing Artificial Intelligence and Language Technologies

## **External Review Service**

International World Wide Web Conference (WWW), 2018

Privacy Enhancing Technologies Symposium (PETS), 2016

ACM Transactions on Information and System Security (TISSEC), 2015

IEEE Security & Privacy (S&P), 2013

20th ACM Conference on Computer and Communications Security (CCS), 2013

1st ACM Conference on Online Social Networks (COSN), 2013

## **Blog Posts**

3. **How Mobile App Permissions (Don't) Protect Privacy**  
Medium, <https://medium.com/@sebastianzimmeck/how-mobile-app-permissions-dont-protect-privacy-f749d8fdbfe3>  
June 6, 2019
2. **Social Debt: Why Software Developers Should Think Beyond Tech**  
Medium, <https://medium.com/@sebastianzimmeck/social-debt-why-software-developers-should-think-beyond-tech-df665d8401a5>  
January 20, 2019
1. **The Galaxy Nexus: Still Around After All These Years**  
Medium, <https://medium.com/@sebastianzimmeck/the-galaxy-nexus-still-around-after-all-these-years-fc127a2dd1b5>  
May 27, 2018

## **Research Team**

3. Sarah Jin '21, Fall 2019 - present
2. David Baraka '21, Spring 2019 - present
1. Rafael Goldstein '21, Fall 2018 - present

## **Teaching**

3. **Fall 2019**  
COMP 114: How to Talk to Machines  
COMP 423: Advanced Information Security and Privacy Research Seminar, Undergraduate

**2. Spring 2019**

COMP 114: How to Talk to Machines

COMP 424: Advanced Information Security and Privacy Research Seminar, Undergraduate

**1. Fall 2018**

COMP 360: Information Security and Privacy

COMP 411: Advanced Information Security and Privacy Group Tutorial, Undergraduate

## **Research & Work Experience**

### **Wesleyan University, Department of Mathematics and Computer Science**

2018 – present: Assistant Professor of Computer Science

### **Carnegie Mellon University, School of Computer Science, Institute for Software Research**

2016 – 2018: Postdoctoral Associate

2015: Visiting Researcher

### **Columbia University, Department of Computer Science**

2012 – 2016: Research Assistant with Steven M. Bellovin

### **University of California, Berkeley Center for Law & Technology**

2011, 2012, 2013: Google Research Fellow

### **Freshfields Bruckhaus Deringer LLP, Frankfurt, Germany**

2006 – 2009: Attorney at Law

### **University of California, Berkeley School of Law**

2005 – 2006: Research Assistant with Paul M. Schwartz

### **Appellate Court Celle, Germany**

2003 – 2005: Training Lawyer

### **University of Kiel School of Law, Germany**

2000 – 2003: Research Assistant with Peter Kreutz

## **Awards & Grants**

### **Anil Fernando Grant (\$900)**

2019, Anil Fernando Endowment

### **Allbritton Grant for Support of a Faculty Study Group (\$1K)**

With Abigail Hornstein and Karl Boulware

2018, Allbritton Center for the Study of Public Life, Wesleyan University

**Research Grant (\$5K)**

2015, Comcast

**Community Service Award**

2014, Computer Science Department, Columbia University

**Graduate Research Assistant Fellowship**

2012 – 2016, Computer Science Department, Columbia University

**Research Fellowship**

2011, 2012, 2013, Google/Berkeley Center for Law & Technology

**Student Fellowship**

2005 – 2006, German Academic Exchange Service

**Education****Columbia University, Graduate School of Arts & Sciences**

2012 – 2016, Ph.D. (Computer Science)

Doctoral thesis advisor: Steven M. Bellovin

**Columbia University, Fu Foundation School of Engineering & Applied Science**

2009 – 2011, M.S. (Computer Science)

**University of California, Berkeley School of Law**

2005 – 2006, Master of Laws (LL.M.)

**University of Kiel School of Law, Germany**

2003 – 2008, Ph.D. (Law)

Doctoral thesis advisor: Andreas Hoyer

**University of Kiel School of Law, Germany**

1998 – 2003, First State Examination (J.D.)

**Membership in Professional Organizations**

Governance Research in Artificial Intelligence Leadership (GRAIL) Network

<https://grailnetwork.org/>

The State Bar of California (inactive status)

<http://www.calbar.ca.gov/>

## **Expertise**

Privacy, Security, Machine Learning, Privacy Tech, Web Development, Android Development, Static & Dynamic Analysis, Usability Testing, Intellectual Property, Licensing, Patents, Copyright, Trademarks, Trade Secrets, JavaScript, jQuery, PHP, Java, Python, C/C++, MySQL, R, SPSS, Stata, MS Excel VBA, Git, Xposed, Fiddler