

Sebastian Zimmeck

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<https://privacytechlab.org>
<https://wesleyan.edu/academics/faculty/szimmeck/profile.html>
<https://scholar.google.com/citations?user=2YIFc5wAAAAJ&hl=en>

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

University of California, Berkeley Center for Law & Technology
2011, 2012, 2013: Google Research Fellow

Freshfields Bruckhaus Deringer LLP
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

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

2003, First State Examination (J.D.)

Publications

** Wesleyan student authors; ** equal contributors*

23. Improving Internet Privacy with Global Privacy Control (GPC)

Sebastian Zimmeck

5th NSF Secure and Trustworthy Cyberspace Principal Investigator Meeting (**2022 SaTC PI Meeting**), Arlington, Virginia, USA, June 2022 [1 page]

22. PrivacyFlash Pro: Automating Privacy Policy Generation for Mobile Apps

Sebastian Zimmeck, Rafael Goldstein* and David Baraka*

28th Network & Distributed System Security Symposium (**NDSS**), Online Event, February 2021 (also presented at iOSoho – New York City's largest iOS Engineer Meetup) [18 pages]

21. Standardizing and Implementing Do Not Sell (Short Paper)

Sebastian Zimmeck and Kuba Alicki*

19th ACM Workshop on Privacy in the Electronic Society (**WPES**), Online Event, November 2020 [6 pages]

20. Compliance Traceability: Privacy Policies as Software Development Artifacts (Extend. Abstract)

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 [2 pages]

- 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) [21 pages]
- 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 [9 pages]
- 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 [27 pages]
- 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) [22 pages]
- 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 [11 pages]
- 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 [6 pages]
- 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 [19 pages]
Software and data: <https://github.com/privacy-tech-lab/cross-device-tracking>
- 12. Using Machine Learning to Improve Internet Privacy**
Sebastian Zimmeck
Columbia University Academic Commons, New York, NY, USA, March 2017 [183 pages]
- 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) [15 pages]

- 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 [11 pages]
- 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 and Norman Sadeh
LREC 1st Workshop on Text Analytics for Cybersecurity and Online Safety 2016 (**TA-COS**), Portorož, Slovenia, May 2016 [6 pages]
- 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) [11 pages]
- 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) [17 pages]
Software: <https://github.com/privacy-tech-lab/privee>
- 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) [74 pages]
- 5. The Information Privacy Law of Web Applications and Cloud Computing**
Sebastian Zimmeck
29 Santa Clara Computer & High Tech. L.J. 451 (2013) [38 pages]
- 4. A Game-theoretic Model for Reasonable Royalty Calculation**
Sebastian Zimmeck
22 Alb. L.J. Sci. & Tech. 357 (2012) [53 pages]
- 3. Use of Functional Claim Elements for Patenting Computer Programs**
Sebastian Zimmeck
12 J. High Tech. L. 168 (2011) [63 pages]
- 2. Patent Eligibility of Programming Languages and Tools**
Sebastian Zimmeck
13 Tul. J. Tech. & Intell. Prop. 133 (2010) [30 pages]

1. Grundlagen der Nutzungsrechtsübertragung an Urheberrechtlich Geschützten Computerprogrammen durch den Lizenznehmer

Sebastian Zimmeck

1 ZGE 324 (2009) [33 pages]

Blog Posts

10. The Digital Rights Protocol: Threading Privacy Rights into the Internet

MIT Computational Law Report, <https://law.mit.edu/pub/digitalrightsprotocol/>
January 18, 2022

9. Data Rights Protocol and Global Privacy Control

Consumer Reports Digital Lab Blog, <https://digital-lab-wp.consumerreports.org/2022/01/13/data-rights-protocol-and-global-privacy-control/>
January 13, 2022

8. Comment on the Proposed Rulemaking under the California Consumer Privacy Act of 2020 (Proceeding No. 01-21)

Submitted to the California Privacy Protection Agency,
https://sebastianzimmeck.de/zimmeckCCPAComment_2021_11_08.pdf
November 8, 2021

7. Opting Out May Not Prevent Websites From Collecting Your Data

Medium, <https://sebastianzimmeck.medium.com/opting-out-may-not-prevent-websites-from-collecting-your-data-cfc3ff5b5ff7>
July 17, 2021

6. Protect Your Online Privacy with Global Privacy Control (GPC)

Medium, <https://sebastianzimmeck.medium.com/protect-your-online-privacy-with-global-privacy-control-gpc-2a19089136d6>
October 24, 2020

5. The Privacy of COVID-19 Apps -- Reopening Alphaville

Medium (The Startup)
<https://medium.com/@sebastianzimmeck/the-privacy-of-covid-19-apps-553adb4c0675>
May 18, 2020

4. The CCPA is here! Now what?

Dev.to and Medium (The Startup)
<https://dev.to/sebastianzimmeck/the-ccpa-is-here-now-what-39ab>
January 8, 2020

3. How Mobile App Permissions (Don't) Protect Privacy

Medium (The Startup)

<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

Talks

27. Emerging State Privacy Laws: Are They Working for Consumers and Businesses?

- March 24, 2022, 2022 Privacy + Security Forum, Online (Panel Discussion)

26. Cryptography for Cryptocurrencies: The Technologies Behind the Blockchain

- February 23, 2022, Guest lecture in Student Forum ECON 420: "Crypto & Digital Currency: The Future of the Financial Services Industry?"

25. Data Rights Summit

- October 19, 2021, Consumer Reports Digital Lab and MIT Media Lab, Online (Panel Discussion)

24. Shasha Seminar: "Deep Fakes in the Age of Misinformation"

- March 12, 2021, Wesleyan University, Online (Panel Discussion Moderator)

23. Global Privacy Control (GPC)

- June 1-2, 5th NSF Secure and Trustworthy Cyberspace Principal Investigator Meeting, Arlington, VA

- May 5, California Privacy Protection Agency Stakeholder Meeting, Online (Comment)

- March 10, Offices of California and Colorado Attorneys General, Online (Panel Discussion)

- March 2, 2022, AdTech & Privacy Forum, Online (Panel Discussion)

- December 20, 2021, Connecticut State Senate, Consumer Data Privacy Working Group, Online

- November 16, 2021, German Ministry of Economy, Online

- February 4, 2021, National Association of Attorneys General, Technology Platform Call

- January 27, 2021, The Rise of Privacy Tech's Data Privacy Day 2021, Online (Panel Discussion)

- December 8, 2020, Northeastern University, Khoury College of Computer Science Talk, Online

- December 3, 2020, UC Davis, Computer Science Colloquium Series, Online

22. Standardizing and Implementing Do Not Sell

- November 9, 2020, 19th ACM Workshop on Privacy in the Electronic Society, Online

21. **“Getting Hacked is Contagious” --- National Cybersecurity Awareness Month**
 - October 8, 2020, SUNY Canton, Online (Panel Discussion)
20. **Data Privacy & Contact Tracing**
 - July 22, 2020, CT Education Network, Online (Panel Discussion)
19. **Feature Discussion Series on Privacy for iOS with iOS YouTuber Brian Advent**
 - June 22, 2020, Q&A: Privacy & iOS Development Discussion with Sebastian Zimmeck and Wesleyan students Rafael Goldstein, David Baraka, and Kuba Alicki, <https://youtu.be/iBWKxMBg4TE>
 - June 4, 2020, Why Privacy Matters, How Data Shapes Our Lives & What Developers Can Do, <https://youtu.be/FEpXiG2EX3Q>
 - May 24, 2020, Privacy and Software Development – How to create a Privacy Policy, https://youtu.be/7tpq0v4j_vM
18. **PrivacyFlash Pro: Generating Privacy Policies from App Code**
 - March 12, 2021, School Computing and Information Science, University of Maine, Online
 - February 24, 2021, 28th Network & Distributed System Security Symposium (NDSS), Online
 - Date TBD due to COVID-19, New England Security Day (NESD) 2020, Harvard University
17. **Developing Privacy Policies for iOS Apps**
 - February 24, 2020, iOSoho - New York City's largest iOS Engineer Meetup, New York City
16. **Cryptography Essentials**
 - February 4, 2020, Guest Lecture in Jim Lipton’s COMP 412 – Blockchain Tutorial, Wesleyan University
15. **What Are You Consenting To? A Panel on Data Privacy and Consent**
 - November 19, 2019, American Civil Liberties Union of Connecticut, Wesleyan Chapter, Wesleyan University (Panel Discussion)
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) 2019, 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
 - February 28, 2017, 24th Network & Distributed System Security Symposium (NDSS), San Diego, CA, USA
 - 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

Awards & Grants

- 10. Google Research Scholar Award (\$60K)**
2022 – 2023, Google
- 9. Design, Development, and Testing of a Generalizable Active Privacy Choice Mechanism (\$34.9K)**
2021 – 2023, Alfred P. Sloan Foundation
<https://sloan.org/grant-detail/9631>
- 8. SaTC: CORE: Small: Improving Internet Privacy with Global Privacy Control (\$266K)**
2020 – 2023, National Science Foundation
https://nsf.gov/awardsearch/showAward?AWD_ID=2055196
- 7. Anil Fernando Grant**
2021 (\$950), 2020 (\$1,400), 2019 (\$900)
- 6. 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
- 5. Research Grant (\$5K)**
2015, Comcast
- 4. Community Service Award**
2014, Computer Science Department, Columbia University
- 3. Graduate Research Assistant Fellowship**
2012 – 2016, Computer Science Department, Columbia University
- 2. Research Fellowship**
2011, 2012, 2013, Google/Berkeley Center for Law & Technology
- 1. Student Fellowship**
2005 – 2006, German Academic Exchange Service

Research Team

- 18. Sophie Eng '25, Spring 2022 – present**
- 17. Justin Casler '24, Spring 2022 – present**
- 16. Oliver Wang '24, Summer 2021 – present**
- 15. Chunyue Ma '22, Spring 2021 – Spring 2022**
- 14. Stanley Markman '23, Spring 2021 – Fall 2021**
- 13. Kiryl Beliauski, '23, Spring 2021**
- 12. Logan Brown '23, Spring 2021 – present**
- 11. Daniel Goldelman '23, Spring 2021 – present**
- 10. Bella Tassone '24, Spring 2021 – present**

9. Eliza Kuller '23, Spring 2021 – present
8. Owen Kaplan '22, Fall 2020 – Spring 2022
7. Abdallah Salia '22, Fall 2020
6. Daniel Knopf '22, Fall 2020 – Spring 2021
5. Kuba Alicki '22, Spring 2020 – Spring 2022
4. Phil Kaelbling '22, Spring 2020
3. Sarah Jin '21, Fall 2019
2. David Baraka '21, Spring 2019 – Spring 2021
1. Rafael Goldstein '21, Fall 2018 – Spring 2021

Honors Thesis Advising

4. Schuyler Sloman '22, Fairness & Social Influence Maximization, Spring 2022 (thesis reader)
3. Owen Kaplan '22, Privacy Pioneer: Creating an Automated Data-Privacy UI for Web Browsers, Spring 2022 (thesis advisor)
2. Kuba Alicki '22, Don't Sell Our Data: Exploring CCPA Compliance via Automated Privacy Signal Detection, Spring 2022 (thesis advisor)
1. Isaac Jacobs '20, All My Friends Are Fake: A Node-By-Node Approach to Social Network Classification, Spring 2020 (thesis reader)

Teaching

4. **COMP 333: Software Engineering**

Spring 2022, Spring 2021

Software engineering is the application of engineering principles to the software development process. Eliciting requirements from stakeholders, designing the architecture of a program, performing usability studies, and testing a codebase are some of the aspects that elevate program development to software engineering. Focusing on web and mobile apps, students in this course will gain expertise in state-of-the-art frontend, backend, and mobile technologies, as well as related tooling. We will also cover the collaborative organization of software projects, software licensing, software business models, and ethical considerations for professional software engineers.

3. **COMP 114: How to Talk to Machines**

Fall 2020, Fall 2019, Spring 2019

How do we tell robots and computers how to do what they do? Getting a handle on this question is the goal of this course. Since telling a device how to do something depends a lot on what that device can do, along the way we will learn a bit about what is “in the box.” We will start with the kind of programming one might use to instruct a robot how to interact with the world around it. That will lead us to the Turing machine, a beautiful mathematical model of a computer. We will adapt that model to something that is closer to how most computer systems today are designed. We will end with an introduction to high-level programming, learning the fundamentals of programming in a language such as Python or Java. The goal of the course is to understand not just programming, but how computers are designed, and how those designs are reflected in the way we program them.

2. COMP 360: Information Security and Privacy

Spring 2020, Fall 2018

This course explores principles and practical applications of computer security and privacy. Some of the topics covered include static and dynamic code analysis, secure authentication, privacy enhancing technologies, usable privacy and security, and web tracking. It will also touch upon theoretical areas, such as basic cryptographic concepts as well as differential privacy. The course has the objective to provide students with the conceptual knowledge and technical skills to identify and resolve privacy and security issues in the design, development, and evaluation of information systems.

1 COMP 423/4: Advanced Information Security and Privacy Research Seminar, Undergraduate

Spring 2022, Fall 2021 (COMP 409), Spring 2021, Fall 2020, Spring 2020, Fall 2019, Spring 2019, Fall 2018 (COMP 411)

In this research seminar students will work together on a research project that is advancing knowledge in information security and privacy. During their work they will not only gain experience in security and privacy, but in web and mobile app engineering as well. Students will also have the opportunity to co-author a paper to be submitted at a top-tier academic security and privacy venue.

Program Committee Service

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

External Review Service

NSF Review Panel Computer Science and Engineering (CISE), 2022
NSF Review Panel and Ad Hoc Review Computer Science and Engineering (CISE), 2022
NSF Review Panel Computer Science and Engineering (CISE), 2021
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

Wesleyan University Service

Computer Science Undergrad Club Code_Wes, Spring 2022
Computer Science Advisory Committee (CADCOM), Fall 2019 – Spring 2021
Computer Science Lecture Series, Fall 2018 – present
Security Advisory Group, Fall 2018 – present
Library Committee and Science Library Faculty Committee, Fall 2018 – Spring 2020
Financial Economics Faculty Study Group, Fall 2018 – Spring 2020

Associations

Applied Computational Data Analysis Fellow, 2021 – present
Quantitative Analysis Center, Wesleyan University

Consumer Reports Data Rights Protocol Technical Advisors Board, 2021 – present
<https://github.com/consumer-reports-digital-lab/data-rights-protocol>

Global Privacy Control Group Co-founder, 2020 – present
<https://globalprivacycontrol.org/>

W3C Privacy Community Group, 2020 – present
<https://www.w3.org/community/privacycg/>

Governance Research in Artificial Intelligence Leadership (GRAIL) Network, 2019 – 2021
<https://grailnetwork.org/>

The State Bar of California (inactive status), 2010 – present
<http://www.calbar.ca.gov/>