

NARSEO VALLINA-RODRIGUEZ

Curriculum Vitae

IMDEA Networks Institute
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Google Scholar: <https://scholar.google.es/citations?user=y0lNzfcAAAAJ>
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Short Bio

Narseo Vallina-Rodriguez is an Associate Research Professor at IMDEA Networks and co-founder of AppCensus, a US-based startup building cutting-edge technology to assess the privacy guarantees of mobile applications. His research focuses on the intersection of online privacy, cybersecurity, networking, and tech policy. Narseo has made significant academic contributions, receiving best paper awards at relevant peer-reviewed cybersecurity conferences. Notably, he was awarded the 2020 Best-Practical Paper Award at the IEEE Symposium on Security and Privacy (S&P) and the Distinguished Paper Award at USENIX Security in 2019.

Yet, Narseo's contributions extend beyond academia, having profound industrial and policy implications that contributed to enhance the ciphersafety of hundreds of millions of digital users. As a result, his merits have been recognized by influential industry stakeholders and regulators, receiving in multiple occasions research awards such as the AEPD Emilio Aced Award, the Caspar Bowden Award, and the CNIL-INRIA Privacy Protection Award, as well as a 2018 Google Faculty Fellowship in the area of Privacy. For his career-long achievements, Narseo has been appointed ACM Senior Member in 2022, a Ramón y Cajal Fellow in 20220, and received the medal to "Young Researchers" awarded by the Royal Academy of Engineering of Spain in 2023. His research has also garnered attention from international media outlets such as The Washington Post, The New York Times, The Guardian, and the Financial Times. Narseo Vallina-Rodriguez obtained his Ph.D. from the University of Cambridge in 2014.

Research interests

Cybersecurity; Internet measurements; Online Privacy; Regulatory Compliance; Program Analysis; Protocol Analysis; Software Transparency; adTech; and Consumer Protection.

Education

- 2009-2013 **Ph.D in Computer Science, University of Cambridge (U.K.)**
Thesis: Cross-layer analysis of energy and spectrum waste of mobile applications
Advisor: Prof. Jon Crowcroft
- 2001-2007 **Telecommunications Engineering, University of Oviedo (Spain)**
MsC dissertation completed at the University of Cambridge
Advisors: Prof. Jon Crowcroft (University of Cambridge) and Prof. Roberto Garcia (University of Oviedo)

Professional experience

- 2021-Present **IMDEA Networks Institute** Madrid (Spain)
Associate Research Professor (Tenured)
- 2019-Present **AppCensus** San Francisco (USA)
Co-Founder and Board Member
- 2016-2021 **IMDEA Networks Institute** Madrid (Spain)
Research Assistant Professor (Tenure track)

2014-2021	International Computer Science Institute (ICSI) Research Scientist	Berkeley (USA)
2013-2014	International Computer Science Institute (ICSI) Postdoctoral Researcher	Berkeley (USA)
2009-2013	University of Cambridge Undergraduate Student Supervisor	Cambridge (U.K.)
2011, 2012	Telefonica Research Research Intern	Barcelona (Spain)
2009	T-Labs (Telekom Innovation Labs) Research Intern	Berlin (Germany)
2008-2009	Vodafone R&D Research Engineer	Newbury (U.K.)
2007	Telefonica Research Research Intern	Barcelona (Spain)
2006-2007	University of Cambridge Visitor Student	Cambridge (U.K.)

Awards and recognitions

2023	<p>Spanish Royal Academy of Engineering <i>Young Researchers' Medal</i></p> <p>AppCensus amongst the finalist (ranked #2) in Armasuisse's Cyber Startup Challenge 2023</p> <p>Distinguished Reviewer Award at USENIX Security Symposium <i>Awarded to the top 5% of reviewers</i></p> <p>Runner-up. Andreas Pfitzmann Best Student Paper Award. PETS Symposium <i>Paper: "Not Your Average App: A Large-scale Privacy Analysis of Android Browsers"</i></p>
2022	ACM Senior Member.
2021	<p>CNIL-INRIA Privacy Award <i>50 ways to leak your data: An exploration of apps' circumvention of the android permissions system, with J. Reardon, A. Feal, P. Wijesekera, A. Elazari Bar On, N. Vallina-Rodriguez, S. Egelman</i></p> <p>AEPD Emilio Aced Award <i>50 ways to leak your data: An exploration of apps' circumvention of the android permissions system, with J. Reardon, A. Feal, P. Wijesekera, A. Elazari Bar On, N. Vallina-Rodriguez, S. Egelman</i></p> <p>Ramon y Cajal 2020 Fellow. Ranked 4th in the whole area of Computer Science and Telecommunications (Acceptance rate: 16/94).</p> <p>Best of ACM SIGCOMM CCR. <i>Tracking the deployment of TLS 1.3 on the web: a story of experimentation and centralization, with R. Holz, J. Hiller, J. Amann, A. Razaghpanah, T. Jost, N. Vallina-Rodriguez, and O. Hohlfeld.</i></p>
2020	<p>ACM IMC. Runner-up Best Paper Award <i>Understanding Incentivized Mobile App Installs on Google Play Store, with S. Farooqi, A. Feal, T. Lauinger, D. McCoy, Z. Shafiq, and N. Vallina-Rodriguez.</i></p> <p>Caspar Bowden Award for Outstanding Research in Privacy Enhancing Technologies <i>"Won't somebody think of the Children?" Examining COPPA Compliance at Scale, with Irwin Reyes, Primal Wijesekera, Joel Reardon, Amit Elazari Bar On, Abbas Razaghpanah, and Serge Egelman.</i></p> <p>IEEE Symposium on Security and Privacy (S&P). Best Practical Paper Award <i>An Analysis of Pre-installed Android Software, with J. Gamba, M. Rashed, A. Razaghpanah and J. Tapiador.</i></p> <p>AEPD Emilio Aced Award <i>Angel or Devil? A Privacy Study of Mobile Parental Control Apps, with A. Feal, P. Calciati, N. Vallina-Rodriguez, C. Troncoso, A. Gorla.</i></p>

2019	<p>CNIL-INRIA Privacy Award <i>An Analysis of Pre-installed Android Software</i>, with J. Gamba, M. Rashed, A. Razaghpanah and J. Tapiador.</p> <p>AEPD Emilio Aced Award <i>An Analysis of Pre-installed Android Software</i>, with J. Gamba, M. Rashed, A. Razaghpanah and J. Tapiador.</p> <p>USENIX Security Symposium. Distinguished Paper Award <i>50 Ways to Leak Your Data: An Exploration of Apps' Circumvention of the Android Permissions System</i>, with J. Reardon, A. Feal, P. Wijesekera, A. Elazari Bar On, and S. Egelman.</p>
2018	<p>Google Faculty Research Award</p> <p>ACM IMC. Distinguished Paper Award <i>Coming of age: A longitudinal study of TLS deployment</i>, with P. Kotzias, A. Razaghpanah, J. Amann, K. Paterson, and J. Caballero.</p> <p>ACM IMC. Community Contribution Award <i>A long way to the top: significance, structure, and stability of internet top lists</i>, with Q. Scheitle, O. Holfeld, J. Gamba, J. Jelten, T. Zimmermann, and S. Strowes.</p>
2017	<p>IETF/IRPF Applied Networking Research Prize <i>A multi-perspective analysis of carrier-grade NAT deployment</i>, with P. Richter, F. Wohlfart, M. Allman, R. Bush, A. Feldmann, C. Kreibich, N. Weaver, and V. Paxson.</p> <p>ACM Mobicom App Contest Finalist <i>Lumen Privacy Monitor App</i></p>
2016	Data Transparency Lab Grant (50K Euro)
2015	<p>ACM HotMiddlebox. Best-paper Award <i>Header enrichment or ISP enrichment?: Emerging privacy threats in mobile networks</i>, with S. Sundaresan, C. Kreibich, and V. Paxson.</p> <p>Selected to attend the NSF NeTS Early Career Workshop</p>
2014	<p>ACM CoNEXT. Best Short-paper Award <i>A tangled mass: The Android root certificate stores</i>, with J. Amann, N. Weaver, C. Kreibich and V. Paxson.</p>
2013	<p>ACM CoNEXT. Runner-up for Best Paper Award <i>When David helps Goliath: the case for 3G onloading</i>, with V. Erramilli, Y. Grunenberger, L. Gyarmati, N. Laoutaris, R. Stanojevic, and K. Papagiannaki</p>
2012	Qualcomm Innovation Fellowship
2010-2012	Fitzwilliam College Scholarship
2009-2012	Cambridge European Trust Fellowship (2.5K GBP/Year)
2009-2011	Fundesfor Scholarship
2007	Honorable Mention for the MSc dissertation. University of Oviedo

Funded projects and grants

International Projects and Grants

2023-2027	<p><i>Training Cybersecurity Skills through Advanced Higher Education Joint Programmes (Cyber-Actioning)</i></p> <p>EU H2020 (Contract 101123445) € 1.4M (IMDEA share: € 22.7K) Principal Investigator.</p>
2021-2024	<p><i>Enhancing Digital Security, Privacy and Trust in Software (TrustAware)</i></p> <p>EU H2020 (Contract 101021377) € 4.6M (IMDEA share: € 615K) Principal Investigator.</p>
2019-2021	<p><i>Scalable Privacy Analysis</i></p> <p>U.S.A. NSA \$194K PI (Co-PIs: Serge Egelman and Michael C. Tschantz, ICSI).</p>
2018-2021	<i>SaTC: TTP: Small: Mobile Dynamic Privacy and Security Analysis at Scale</i>

	NSF SaTC TTP (CNS-1817248)	\$515K
	Collaborator (PI: Serge Egelman, ICSI).	
2018-2020	<i>GDPR Compliance Cloud Platform for Micro Enterprises (SMOOTH)</i> EU H2020 (Contract 786741)	€ 3.3M (IMDEA share: € 250K)
	Principal Investigator.	
2016-2021	<i>Medium: HayStack: Fine-grained Visibility and Control of Mobile Traffic for Enhanced Performance, Privacy and Security</i> NSF (Contract CNS-1564329)	\$1.0M
	Principal investigator.	
2016-2018	<i>Towards transparency and privacy in the online advertising business (TYPES)</i> EU H2020 (Contract 653449)	€ 4.6M (IMDEA Share: € 446K)
	Researcher (PI: Arturo Azcorra, IMDEA Networks)	
2015-2019	<i>TTP Option: Large: Collaborative: Towards a Science of Censorship Resistance</i> NSF (Contract CNS-1518918)	\$1.8M
	Researcher (PI: Vern Paxson, ICSI)	
2012-2019	<i>Frontier: Collaborative: Beyond Technical Security: Developing an Empirical Basis for Socio-Economic Perspectives</i> NSF (Contract CNS-1237265)	\$4.6M
	Researcher (PI: Vern Paxson, ICSI)	
2012-2017	<i>Large: Collaborative Research: User-Centric Network Measurement</i> NSF (Contract CNS-1213157)	\$721K
	Researcher (PI: Mark Allman, ICSI)	
2012-2015	<i>Netalyzr NG: Monitoring DNS, DNSSEC, and TLS from the Edge</i> DHS (Contract N66001-12-C-0128)	\$952K
	Researcher (PI: Nicholas Weaver, ICSI)	

National Projects and Grants

2023-2027	<i>Methods and techniques to characterize supply chain threats in SW (PARASITE)</i> Agencia Estatal Investigación (AEI, Spain)	€ 266K
	(PID2022-143304OB-I00) Principal investigator	
2022-2026	Programa INVESTIGO. Spanish Ministry of Labour (SEPE)	€ 198K
	Principal Investigator. National Program to Fund Personnel.	
2021-2026	Ramon y Cajal Fellowship (RYC2020-030316-I) Agencia Estatal Investigación (AEI, Spain)	€ 319K
	Principal Investigator.	
2020-2022	<i>Contact Tracing with 5G and Beyond Networks (CONTACT-CM)</i> Comunidad de Madrid and the European Commission through the EU Regional Development Fund (ERDF)	€ 1.25M
	Team Member (PI Domenico Giustiniano, IMDEA Networks)	
2020-2023	<i>The Open Digital Identity Observatory (ODIO)</i> Agencia Estatal Investigación (AEI, Spain)	€ 54K
	(PID2019-111429RB-C22) Principal investigator	
2020-2021	Ministry of Economy (Spain). EUROPA INVESTIGACION 2020 PROGRAM (EIN2020-112344)	€ 9.7K
	Principal investigator	
2019	Comunidad de Madrid / EU Social Fund	€ 35K
	Principal investigator. <i>Youth Employment Initiative Program</i>	
2019-2020	<i>EDGEDATA-CM. Una infraestructura para sistemas híbridos altamente descentralizados</i> Comunidad de Madrid (P2018/TCS-4499)	€ 703K
	Researcher (PI: A. Fernandez Anta, IMDEA Networks)	
2018-2019	<i>DiSCoEdge: Almacenamiento y computación distribuida en el borde de la red</i> MINECO (Contract 786741)	€ 64K

Researcher (PI: V. Mancuso / A. Fernandez Anta, IMDEA Networks)

Industry Contracts and Fellowships

2022	<i>LibSeeker: SDK Detection Method</i> AppCensus (Industry Contract) Principal Investigator	€5K
2021	<i>Android Supply Chain Analysis</i> Consumer Reports Principal Investigator	€53K
2019	<i>The Mobile Tracking Industry in Android Devices</i> Agencia Española de Protección de Datos (AEPD) Principal investigator	€18K
2019	<i>Unveiling Entity Relationships in Online Data Markets</i> Google Faculty Grant Co-PI (PI: Rishab Nythianand, University of Iowa)	\$40.5K
2017	<i>Mobile Transparency API</i> Telefonica (Industry Contract) Principal Investigator	€30K
2016	<i>Characterizing Indirect Privacy Leaks in Mobile Apps</i> Data Transparency Labs Grant Principal Investigator	€50K
2012	Qualcomm Innovation Fellowship	10K GBP
2012	ACM SIGCOMM Student Travel Grant	\$900
2010	ACM SIGCOMM Student Travel Grant	\$1,175
2009-2012	Cambridge European Trust Fellowship	2.5K GBP/year
2009	ACM SIGMOBILE MobiSys Student Travel Grant	\$600

Scientific and community service

General Chair	2024	ACM Internet Measurements Conference (IMC)
Organizer	2024	Dagstuhl Seminar. <i>EU Cyber Resilience Act: Socio-Technical and Research Challenges</i> (202306036)
PC chair	2022 2016	ACM CoNEXT Student Workshop 1st ACM MobiSys Workshop on Mobile Data (MOBIDATA)
Demo co-chair	2020	ACM Mobicom
Workshop co-chair	2018	ACM CoNEXT
Local organizer	2021	Local pod (Madrid) - ACM Internet Measurements Conference (IMC)
Jury Member	2023 2022 2020 2019	7th CNIL-INRIA Privacy Research Award 6th CNIL-INRIA Privacy Research Award ACM Mobicom Student Research Competition (SRC) ACM IMC Best Paper Award Committee
Advisory Boards	2019-Present 2023-Present	AppCensus Horizon Europe UNITE Project. Security AB
PC member	2024 2023	IEEE European Symposium on Security & Privacy (S&P) USENIX Security Symposium Jornadas Nacionales de Investigación en Ciberseguridad (JNIC)
	2022 2021	ACM Internet Measurements Conference (IMC) ACM SIGSAC CCS (Network Security Track) ACM Internet Measurements Conference (IMC) IEEE/IFIP TMA Conference (TMA) Privacy Enhancing Technologies Symposium (PETS)
	2020	ACM SIGSAC Conference on Computer and Communications Security (CCS)

		ACM Internet Measurements Conference (IMC)
		Privacy Enhancing Technologies Symposium (PETS)
	2019	ACM Internet Measurements Conference (IMC)
		IEEE/IFIP TMA Conference (TMA)
		Passive and Active Measurements (PAM)
		Privacy Enhancing Technologies Symposium (PETS)
	2018	ACM CoNEXT
		ACM Internet Measurements Conference (IMC)
		Privacy Enhancing Technologies Symposium (PETS)
		ACM Workshop on IoT S&P (Co-located with ACM SIGCOMM)
		IEEE HotPOST (Co-located with IEEE INFOCOM)
		IEEE/IFIP TMA Conference (TMA)
		ACM HotMobile
		Passive and Active Measurements (PAM)
		Conference on Fairness, Accountability, and Transparency (FAT)
	2017	ACM CoNEXT
		ACM Workshop on IoT S&P (Co-located with ACM SIGSAC CCS)
		IEEE/IFIP TMA Conference
		Passive and Active Measurements (PAM)
		ACM BIG DAMA Workshop (Co-located with ACM SIGCOMM)
		ACM Mobilesoft (New Ideas Track)
	2016	ACM CoNEXT Student Workshop
		Spring School on Networks (SSN), NICLabs Chile.
		ACM SIGCOMM GAIA Workshop
		IEEE Int. Workshop on TRaffic Analysis and Characterization (TRAC)
	2015	ACM CoNEXT Student Workshop
		IEEE Int. Workshop on TRaffic Analysis and Characterization (TRAC)
		Traffic Monitoring and Analysis Workshop (TMA)
		ACM Mobiquitous Poster Track
	2012	ACM S3 Workshop
Journal reviewer	2017	IEEE Transactions of Networking
		IEEE Communication Letters
	2016	SIGCOMM CCR
	2015	IEEE JSAC Special Issue on Measuring and Troubleshooting the Internet
		IEEE Transactions of Networking
		IEEE Internet Computing
		IEEE Communication Letters
	2014	IEEE Pervasive Computing
		IEEE Transactions of Mobile Computing
External reviewer	2014	IEEE UbiComp
	2013	ACM CoNEXT
Session chair	2022	ACM IMC. Session: <i>Conflict</i>
	2020	ACM IMC. Session: <i>DNS</i>
	2019	ACM IMC. Session: <i>Ads</i>
		TMA. Session: <i>Are you experienced: QoE, streaming and Clouds</i>
	2018	ACM CoNEXT. Session: <i>Security</i>
		ACM IMC. Session: <i>Routing/Censorship</i>
		PETS. Session: <i>Tracking</i>
	2017	TMA. Session: <i>Privacy</i>
Student volunteer	2009	ACM Mobile Ubiquitous Multimedia (MUM)
	2006	IEEE Conference on Peer-to-Peer Computing (P2P)
External Service	2022	Member of RENIC's Electoral Board
		Member of the pool of experts for the EU Data Protection Board (EDPB)
	2020	External expert project evaluator for Universidad de Comillas (Spain)
Institutional service	2022-Present	Member of IMDEA Networks Ethical Board
		RENIC representative for IMDEA Networks

	2021-Present	Chair of IMDEA Networks Ethical Research Board
	2023	Local host and Organizer for Madrid Open Innovation's visit to IMDEA Networks
	2022	Organizer of the 1st IMDEA Faculty Retreat
	2020	Editor for Maria de Maetzu's proposal
		Member of IMDEA Networks's Ethical Board
	2019	Ph.D Students' Welcome Seminar
	2018	Developed IMDEA Networks Ethical Research Guidelines
		Co-organized IMDEA Networks Talklets
		Launched IMDEA Networks Reading Group
	2017	Co-organized IMDEA Networks' Annual Workshop 2017
	2016	Local host for Mozilla's Privacy Labs. June 2016 (ICSI)
College service / leadership roles	2011	Fitzwilliam College MCR Sports Officer
	2010	Fitzwilliam College MCR Social Secretary
		Fitzwilliam-Clare College MCR Football team Vice-captain

PhD and MsC tribunal / jury membership

Ph.D tribunal	2023	Trung Tin Nguyen	CISPA Helmholtz Center for Information Security (DE)
		Ricardo Mendes	University of Coimbra (PT)
	2020	Ermias Walelgne	Aalto University (FI)
		Mohammad Taha Khan	UIC (USA)
	2019	Platon Kotzias	IMDEA Software / UPM (ES)
	2018	Pol Mac Aonghusa	Trinity College Dublin (IE)
Ph.D prelims	2023	Xabier Gandiaga	Mondragon Unibertsitatea (ES)
	2019	Imane Fouad —Comite de Suivi Individuel	INRIA (FR)
		Mohammad Taha Khan	UIC (USA)
	2018	Abbas Razaghpanah	SBU (USA)
MsC tribunal	2017	Eduardo Acha	Universidad de Chile (CL)

Publications

Bibliometrics	Citation count:	4,642	Source: Google Scholar
	h-index:	36	
	i10-index:	58	

Refereed journal papers	1.	Mules and Permission Laundering in Android: Dissecting Custom Permissions in the Wild J. Gamba, A. Feal, E. Blazquez, V. Bandara, A. Razaghpanah, J. Tapiador, and N. Vallina-Rodriguez IEEE Transactions on Dependable and Secure Computing. 2023, 2023 [Q1]
	2.	Not Your Average App: A Large-scale Privacy Analysis of Android Browsers A. Pradeep, A. Feal, J. Gamba, A. Rao, M. Lindofer, N. Vallina-Rodriguez, D. Choffnes Proceedings of Privacy Enhancing Technologies (PoPETS). Volume 2023: Issue 1, 2023 [22%] Andreas Pfitzmann Best Student Paper Award (Runner-up)
	3.	Mixed signals: Analyzing software attribution challenges in the android ecosystem K. Hageman, A. Feal, J. Gamba, A. Girish, J. Bleier, M. Lindorfer, J. Tapiador, N. Vallina-Rodriguez IEEE Transactions on Software Engineering, 2023 [Q1]
	4.	An Analysis of Fake Social Media Engagement Services D. Nevado, S. Pastrana, N. Vallina-Rodriguez, J. Tapiador Computers & Security, 2023 [Q1]
	5.	Blocklist Babel: On the Transparency and Dynamics of Open Source Blocklisting A. Feal, P. Vallina, J. Gamba, S. Pastrana, A. Nappa, O. Hohlfeld, N. Vallina-Rodriguez, J. Tapiador

- IEEE Transactions on Network and Service Management, 2021 [Q1]
6. **Tracking the deployment of TLS 1.3 on the Web: A story of experimentation and centralization**
R. Holz, J. Hiller, J. Amann, A. Razaghpanah, T. Jost, N. Vallina-Rodriguez, O. Hohlfeld
ACM SIGCOMM Computer Communication Review. Volume 50. Issue 3. Pages 3-15, 2020
Best of ACM SIGCOMM CCR
 7. **The Price is (Not) Right: Comparing Privacy in Free and Paid Apps**
C. Han, I. Reyes, A. Feal, J. Reardon, P. Wijesekera, N. Vallina-Rodriguez, A. Elazari, K. A Bamberger, S. Egelman
Proceedings of Privacy Enhancing Technologies (PoPETS). Volume 2020: Issue 3, 2020
 8. **Angel or Devil? A Privacy Study of Mobile Parental Control Apps**
A. Feal, P. Calciati, N. Vallina-Rodriguez, C. Troncoso, A. Gorla
Proceedings of Privacy Enhancing Technologies (PoPETS), Volume 2020: Issue 2, 2020
 9. **Privacy and Surveillance in the Mobile Ecosystem**
J. Tapiador, and N. Vallina-Rodriguez
European Public Mosaic - Open Journal on Public Service. Issue 11, 2020
 10. **Measuring the Global Recursive DNS Infrastructure: A View From the Edge**
P. Callejo, R. Cuevas, N. Vallina-Rodriguez, A. Cuevas
IEEE Access. Volume 7. Pages 168020-168028, 2019 [JCR Impact Factor: Q1]
 11. **“Won’t Somebody Think of the Children?” Examining COPPA Compliance at Scale**
I. Reyes, P. Wijesekera, J. Reardon, A. Elazari, A. Razaghpanah, N. Vallina-Rodriguez, and S. Egelman
Proceedings of Privacy Enhancing Technologies (PoPETS), Volume 2018: Issue 3 (Jun 2018), 2018
Caspar Bowden Award for Outstanding Research in Privacy Enhancing Technologies. 2020
 12. **Header Enrichment or ISP Enrichment? Emerging Privacy Threats in Mobile Networks**
N. Vallina-Rodriguez, S. Sundaresan, C. Kreibich, and V. Paxson
ACM SIGCOMM CCR (Fast-tracked), Volume 45 Issue 4, October 2015, 2015 [JCR Impact Factor: 1.18 (Q2)]
 13. **The scissors and the magnifying glass: Internet governance in the transitional Tunisian context**
A. Artaud de la Ferriere, and N. Vallina-Rodriguez
Journal of North African Studies, 2014 19(5), pp. 639-655, 2014
 14. **When Assistance Becomes Dependence: Characterizing the Costs and Inefficiencies of A-GPS**
N. Vallina-Rodriguez, A. Finamore, Y. Grunenberger, K. Papagiannaki, and J. Crowcroft
ACM SIGMOBILE Mobile Computing and Communications Review (MC2R). Volume 17, Issue 4, 2013
 15. **Energy Management Techniques in Modern Mobile Handsets**
N. Vallina-Rodriguez, and J. Crowcroft
IEEE Communications Surveys and Tutorials, Volume. 15, No. 1, 1s Quarter 2013, 2013 [JCR Impact Factor: 6.49 (Q1)]
 16. **In the Room Where It Happens: Characterizing Local Communication and Threats in Smart Homes**
A. Girish, T. Hu, V. Prakash, D. J. Dubois, S. Matic, D. Y. Huang, S. Egelman, J. Reardon, J. Tapiador, D. Choffnes, N. Vallina-Rodriguez
Proceedings of the ACM Internet Measurements Conference (IMC), 2023 [Acceptance Rate: 25.8%]
 17. **Log: It’s Big, It’s Heavy, It’s Filled with Personal Data! Measuring the Logging of Sensitive Information in the Android Ecosystem**
A. Lyons, J. Gamba, A. Shawaga, J. Reardon, J. Tapiador, S. Egelman, N. Vallina-Rodriguez
Proceedings of the USENIX Security Symposium, 2023 [Acceptance Rate: 29.0%]
 18. **Chrowned by an Extension: Abusing the Chrome DevTools Protocol through the Debugger API**
J.M. Moreno, N. Vallina-Rodriguez, J. Tapiador

Refereed
conference
papers

- Proceedings of the IEEE European Symposium on Security and Privacy (Euro S&P), 2023 [Acceptance Rate: 35.0%]
19. **Your Code is 0000: An Analysis of the Disposable Phone Numbers Ecosystem**
J.M. Moreno, S. Matic, N. Vallina-Rodriguez, J. Tapiador
Proceedings of the 7th Network Traffic Measurement and Analysis Conference (TMA 2023), 2023 [Acceptance Rate: 29.0%]
 20. **Paying Attention to the Algorithm Behind the Curtain: Bringing Transparency to YouTube's Demonetization Algorithms**
A. Dunna, K.A. Keith, E. Zuckerman, N. Vallina-Rodriguez, B. O'Connor, R. Nithyanand
Proceedings of the ACM on Human-Computer Interaction. Volume 6. Issue CSCW2, 2022
 21. **A comparative analysis of certificate pinning in Android & iOS**
A. Pradeep, Amogh, M. T. Paracha, P. Bhowmick, A. Davanian, A. Razaghpanah, T. Chung, M. Lindorfer, N. Vallina-Rodriguez, D. Levin, D. Choffnes
In Proceedings of the 22nd ACM Internet Measurement Conference (IMC), 2022 [Acceptance Rate: 26.4%]
 22. **IoTLS: Understanding TLS Usage in Consumer IoT Devices**
M. T. Paracha, D. J. Dubois, N. Vallina-Rodriguez, D. Choffnes
ACM IMC, 2021 [Acceptance Rate: 28.0%]
 23. **Blind In/On-Path Attacks and Applications to VPNs**
W. J. Tolley, B. Kujath, M. Taha Khan, N. Vallina-Rodriguez, J. R. Crandall
USENIX Security Symposium, 2021 [Acceptance Rate: 18.8%]
 24. **Trouble Over-The-Air: An Analysis of FOTA Apps in the Android Ecosystem**
E. Blazquez, S. Pastrana, A. Feal, J. Gamba, P. Kotzias, N. Vallina-Rodriguez, J. Tapiador
IEEE Symposium on Security and Privacy (S&P), 2021 [Acceptance Rate: 12.0%]
 25. **The Lockdown Effect: Implications of the COVID-19 Pandemic on Internet Traffic**
A. Feldmann, O. Gasser, F. Lichtblau, E. Pujol, I. Poese, C. Dietzel, D. Wagner, M. Wichtlhuber, J. Tapiador, N. Vallina-Rodriguez, O. Hohlfeld, G. Smaragdakis
ACM IMC, 2020 [Acceptance Rate: 24.5%]
 26. **Mis-shapes, Mistakes, Misfits: An Analysis of Domain Classification Services**
P. Vallina, V. Le Pochat, A. Feal, M. Paraschiv, J. Gamba, T. Burke, O. Hohlfeld, J. Tapiador, N. Vallina-Rodriguez
ACM IMC, 2020 [Acceptance Rate: 24.5%]
 27. **Understanding Incentivized Mobile App Installs on Google Play Store**
S. Farooqi, A. Feal, T. Lauinger, D. McCoy, Z. Shafiq, N. Vallina-Rodriguez
ACM IMC, 2020 [Acceptance Rate: 24.5%]
Runner-up Best-paper Award
 28. **An Analysis of Pre-installed Android Software**
J. Gamba, M. Rashed, A. Razaghpanah, J. Tapiador, N. Vallina-Rodriguez
IEEE Symposium on Security and Privacy, 2020 [Acceptance Rate: 12.3%]
Best Practical Paper Award
 29. **Apophanies or Epiphanies: How Crawlers Can Impact Our Understanding of the Web**
S. Suleman Ahmad, M. Daniyal Dar, R. Nithyanand, N. Vallina-Rodriguez, M. Fareed Zaffar
The Web Conference (WWW), 2020 [Acceptance Rate: 19.0%]
 30. **Encrypted DNS –¿ Privacy? A Traffic Analysis Perspective**
S. Siby, M. Juarez, N. Vallina-Rodriguez, C. Diaz, C. Troncoso
NDSS Symposium, 2020 [Acceptance Rate: 17.4%]
 31. **Tales from the Porn: A Comprehensive Privacy Analysis of the Web Porn Ecosystem**
P. Vallina, A. Feal, J. Gamba, N. Vallina-Rodriguez, A. Fernandez-Anta
ACM IMC, 2019 [Acceptance Rate: 19.7%]
 32. **50 Ways to Leak Your Data: An Exploration of Apps' Circumvention of the Android Permissions Systems**
J. Reardon, A. Feal, P. Wijesekera, A. Elazari Bar On, N. Vallina-Rodriguez, S. Egelman
USENIX Security Symposium, 2019 [Acceptance Rate: 16.0%]
Distinguished Paper Award
 33. **Coming of Age: A Longitudinal Study of TLS Deployment**

- P. Kotzias, A. Razaghpanah, J. Amann, K. G. Paterson, N. Vallina-Rodriguez, and J. Caballero
ACM IMC, 2018 [Acceptance Rate: 24.0%]
Distinguished Paper Award
34. **Beyond Google Play: A Large-Scale Comparative Study of Chinese Android App Markets**
H. Wang, Z. Liu, N. Vallina-Rodriguez, Y. Guo, L. Li, J. E. Tapiador, J. Cao, and G. Xu
ACM IMC, 2018 [Acceptance Rate: 24.0%]
35. **An Empirical Analysis of the Commercial VPN Ecosystem**
M. Khan, J. de Blasio, G. Voelker, A. Snoeren, C. Kanich, N. Vallina-Rodriguez
ACM IMC, 2018 [Acceptance Rate: 24.0%]
36. **A Long Way to the Top: Significance, Structure, and Stability of Internet**
Q. Scheitle, O. Hohlfeld, J. Gamba and J. Jelten, T. Zimmermann, S. Stowes, and N. Vallina-Rodriguez
ACM IMC, 2018 [Acceptance Rate: 24.0%]
Community Contribution Award
37. **The Cloud that Runs the Mobile Internet**
F. Michelinakis, H. Doroud, A. Razaghpanah, A. Lutu, N. Vallina-Rodriguez, P. Gill and J. Widmer
IEEE INFOCOM, 2018 [Acceptance Rate: 19.2%]
38. **Bug Fixes, Improvements, ... and Privacy Leaks: A Longitudinal Study of PII Leaks Across Android App Versions**
J. Ren, M. Lindorfer, D. J. Dubois, A. Rao, D. Choffnes and N. Vallina-Rodriguez
NDSS Symposium, 2018 [Acceptance Rate: 21.5%]
39. **Apps, Trackers, Privacy and Regulators: A Global Study of the Mobile Tracking Ecosystem**
A. Razaghpanah, R. Nithyanand, N. Vallina-Rodriguez, S. Sundaresan, M. Allman, C. Kreibich, and P. Gill
NDSS Symposium, 2018 [Acceptance Rate: 21.5%]
40. **Studying TLS Usage in Android Apps**
A. Razaghpanah, A. Niaki, N. Vallina-Rodriguez, S. Sundaresan, J. Amann, and P. Gill
ACM CoNEXT, 2017 [Acceptance Rate: 18.0%]
41. **Dissecting DNS Stakeholders in Mobile Networks**
M. Almeida, A. Finamore, D. Perino, N. Vallina-Rodriguez, and M. Varvello
ACM CoNEXT (Short paper), 2017 [Acceptance Rate: 18.0%]
42. **A Multi-perspective Analysis of Carrier-Grade NAT Deployment**
P. Richter, F. Wohlfart, N. Vallina-Rodriguez, M. Allman, R. Bush, A. Feldmann, C. Kreibich, N. Weaver, and V. Paxson
ACM IMC, 2016 [Acceptance Rate: 24.7%]
43. **An analysis of the Privacy and Security Risks of Android VPN Permission-enabled Apps**
M. Ikram, N. Vallina-Rodriguez, S. Seneviratne, M.A. Kaafar, and V. Paxson
ACM IMC, 2016 [Acceptance Rate: 24.7%]
44. **Beyond the radio: Illuminating the higher layers of mobile networks**
N. Vallina-Rodriguez, S. Sundaresan, C. Kreibich, N. Weaver, and V. Paxson
ACM MobiSys, 2015 [Acceptance Rate: 13.2%]
45. **A Tangled Mass: The Android Root Certificate Stores**
N. Vallina-Rodriguez, J. Amann, C. Kreibich, N. Weaver, and V. Paxson
ACM CoNEXT, 2014 [Acceptance Rate: 18.5%]
Best Short-paper Award
46. **Staying Online While Mobile: The Hidden Costs**
A. Aucinas, N. Vallina-Rodriguez, Y. Grunenberger, V. Erramilli, K. Papagiannaki, J. Crowcroft and D. Whetherall
ACM CoNEXT, 2013 [Acceptance Rate: 18.1%]
47. **Surely You're Joking! 3G OnLoading?**
C. Rossi, N. Vallina-Rodriguez, V. Erramilli, Y. Grunenberger, L. Gyarmati, N. Laoutaris, R. Stanojevic, K. Papagiannaki, and P. Rodriguez
ACM CoNEXT, 2013 [Acceptance Rate: 20.2%]
48. **RILAnalyzer: A Comprehensive 3G Monitor on your Phone**
N. Vallina-Rodriguez, A. Aucinas, M. Almeida, Y. Grunenberger, K. Papagiannaki, and J. Crowcroft
ACM IMC (Short paper), 2013 [Acceptance Rate: 23.6%]

49. **Breaking for Commercials: Characterizing Mobile Advertising**
N. Vallina-Rodriguez, J. Shah, A. Finamore, Y. Grunenberger, H. Haddadi, K. Papagiannaki, and J. Crowcroft
ACM IMC, 2012 [Acceptance Rate: 24.6%]
50. **Los Twindignados: The Rise of the Indignados Movement on Twitter**
N. Vallina-Rodriguez, S. Scellato, H. Haddadi, C. Forsell, J. Crowcroft, and C. Mascolo
IEEE Socialcom, 2012 [Acceptance Rate: 20.0%]
- Book chapters
51. **Don't accept candy from strangers: An Analysis of third-party SDKs**
A. Feal, J. Gamba, N. Vallina-Rodriguez, P. Wijesekera, J. Reardon, S. Egelman, J. Tapiador
CPDP Conference Book, 2021
52. **The Case for Context-Aware Resources Management in Mobile Operating Systems**
N. Vallina-Rodriguez, P. Hui, and J. Crowcroft
Mobile Context Awareness, 2012
- Refereed workshop papers
53. **Challenges in inferring privacy properties of smart devices: Towards scalable multi-vantage point testing methods**
A. Girish, V. Prakash, S. Egelman, J. Reardon, J. Tapiador, D. Huang, S. Matic, and N. Vallina-Rodriguez
ACM CoNEXT Student Workshop, 2022 [Acceptance Rate: 32.0%]
54. **Towards an Internet Traffic Map**
T. Koch, W. Jiang, T. Luo, P. Gigis, K. Vermeulen, E. Aben, M. Calder, E. Katz-Bassett, L. Manassakis, G. Smaragdakis, N. Vallina-Rodriguez
ACM HotNets, 2021 [Acceptance Rate: 30.0%]
55. **On The Ridiculousness of Notice and Consent: Contradictions in App Privacy Policies**
E. Okoyomon, N. Samarin, P. Wijesekera, A. On, N. Vallina-Rodriguez, I. Reyes, A. Feal, S. Egelman
IEEE Workshop on Technology and Consumer Protection (Co-located with IEEE S&P'19), 2019 [Acceptance Rate: -%]
56. **Do You Get What You Pay For? Comparing the Privacy Behaviors of Free vs. Paid Apps**
C. Han, I. Reyes, A. On, J. Reardon, A. Feal, S. Egelman, N. Vallina-Rodriguez
IEEE Workshop on Technology and Consumer Protection (Co-located with IEEE S&P'19), 2019 [Acceptance Rate: -%]
57. **DNS Privacy not so private: the traffic analysis perspective**
S. Deepthy, M. Juarez, N. Vallina-Rodriguez, and C. Troncoso
11th Workshop on Hot Topics in Privacy Enhancing Technologies (HotPETs 2018), 2018
58. **Studying TLS Usage in Android Apps (Submitted talk)**
A. Razaghpanah, A. Niaki, N. Vallina-Rodriguez, S. Sundaresan, J. Amann, and P. Gill
ACM, IRTF and ISOC Applied Networking Research Workshop (ANRW), 2018 [Acceptance Rate: 26.1%]
59. **AdTag: A Platform for Targeted Network Measurements from the Edge of the Network**
P. Callejo, C. Kelton, N. Vallina-Rodriguez, R. Cuevas, O. Gasser, C. Kreibich, F. Wohlfart, and A. Cuevas
ACM HotNets, 2017 [Acceptance Rate: 23.3%]
60. **"Is Our Children's Apps Learning?" Automatically Detecting COPPA Violations**
I. Reyes, P. Wiesekera, A. Razaghpanah, J. Reardon, N. Vallina-Rodriguez, S. Egelman, and C. Kreibich
IEEE Workshop on Technology and Consumer Protection (Co-located with IEEE S&P'17), 2017
61. **Tracking the Trackers: Towards Understanding the Mobile Advertising and Tracking Ecosystem**
N. Vallina-Rodriguez, S. Sundaresan, A. Razaghpanah, R. Nithyanand, M. Allman, C. Kreibich, P. Gill
Data Algorithmics and Transparency Workshop (DAT), 2016 [Acceptance Rate: 55.0%]
62. **Ad-Blocking and Counter Blocking: A Slice of the Arms Race**

- R. Nithyanand, S. Khattak, M. Javed, N. Vallina-Rodriguez, M. Falahrastegar, J. E. Powles, E. De Cristofaro, H. Haddadi, S. J Murdoch
Usenix FOCI, 2016 [Acceptance Rate: 35.0%]
63. **Header Enrichment or ISP Enrichment? Emerging Privacy Threats in Mobile Networks**
N. Vallina-Rodriguez, S. Sundaresan, C. Kreibich, and V. Paxson
ACM HotMiddlebox, 2015 [Acceptance Rate: 37.5%]
Best-paper Award
64. **When David can Help Goliath: The Case for Cellular Augmentation of Wired Networks**
N. Vallina-Rodriguez, V. Erramilli, Y. Grunenberger, L. Gyarmati, N. Laoutaris, R. Stanojevic, and K. Papagiannaki
ACM HotNets, 2012 [Acceptance Rate: 19.0%]
65. **Enabling Opportunistic Resources Sharing on Mobile Operating Systems: Benefits and Challenges**
N. Vallina-Rodriguez, C. Efstratiou, G. Xie, and J. Crowcroft
ACM S3, 2011
66. **ErdOS: Achieving Energy Savings in Mobile OS**
N. Vallina-Rodriguez and J. Crowcroft
ACM MobiArch, 2011 [Acceptance Rate: 50.0%]
67. **Exhausting Battery Statistics: Understanding the Energy Demands on Mobile Handsets**
N. Vallina-Rodriguez, P. Hui, J. Crowcroft, and A. Rice
ACM MobiHeld, 2010 [Acceptance Rate: 52.9%]
68. **Has Anyone Seen my Goose? Social Network Services in Developing Regions**
N. Vallina-Rodriguez, P. Hui, and J. Crowcroft
IEEE Social Mobile Web (SMW), 2009
- Conferences without proceedings 69. **Don't accept candies from strangers: An Analysis of third-party SDKs**
A. Feal, J. Gamba, N. Vallina-Rodriguez, P. Wijesekera, J. Reardon, S. Egelman, J. Tapiador
CPDP Conference, 2020
70. **"Won't Somebody Think of the Children" Privacy Analysis at Scale: A Case Study With COPPA**
I. Reyes, P. Wijesekera, J. Reardon, A. Elazari, A. Razaghpanah, N. Rodriguez, and S. Egelman
Privacy Law Scholars Conference (PLSC2018), May 2018, 2018
- Refereed national conferences 71. **This Is My Private Business! Privacy Risks on Adult Websites**
P. Vallina, J. Gamba, A. Feal, N. Vallina-Rodriguez, and A. Fernandez-Anta
Jornadas Nacionales de Investigacion en Ciberseguridad (JNIC), 2018
[Acceptance Rate: 62.0%]
72. **An Analysis of Pre-installed Android Software**
J Gamba, M Rashed, R Abbas, N Vallina-Rodriguez, and J Tapiador
Jornadas Nacionales de Investigacion en Ciberseguridad (JNIC), 2018
[Acceptance Rate: 62.0%]
- Demos and posters 73. **In the Room Where It Happens: Characterizing Local Communication and Threats in Smart Homes**
T. Hu, A. Girish, V. Prakash, D. J. Dubois, S. Matic, D. Y. Huang, S. Egelman, J. Reardon, J. Tapiador, D. Choffnes, N. Vallina-Rodriguez
Proceedings of the NDSS Symposium, 2023
74. **Towards an extensible privacy analysis framework for Smart Homes**
A. Girish, J. Tapiador, S. Matic, and N. Vallina-Rodriguez
ACM IMC, 2022
75. **Do You Get What You Pay For? Comparing the Privacy Behaviors of Free vs. Paid Apps**
C. Han, I. Reyes, A. Elazari Bar On, J. Reardon, A. Feal, K. A. Baberger, S. Egelman, and N. Vallina-Rodriguez
Usenix SOUPS, 2019
76. **On The Ridiculousness of Notice and Consent: Contradictions in App Privacy Policies**
E. Okoyomon, N. Samarin, P. Wijesekera, A. Elazari Bar On, N. Vallina-Rodriguez, I. Reyes, A. Feal, and S. Egelman
Usenix SOUPS, 2019
77. **Examining COPPA Compliance at Scale**

- I. Reyes, P. Wijesekera, J. Reardon, A. Elazari, A. Razaghpanah, N. Vallina-Rodriguez, and S. Egelman
Usenix SOUPS, 2018
78. **A Study on the Privacy Implications of Mobile Parental Control Apps**
A. Feal, J. Gamba, N. Vallina-Rodriguez, C. Troncoso, A. Gorla, P. Calciati
OPERANDI (PETS), 2018
79. **A Long Way to the Top: Significance, Structure, and Stability of Internet Top Lists**
Q. Scheitle, O. Hohlfeld, J. Gamba, J. Jelten, T. Zimmermann, SD. Strowes, N. Vallina-Rodriguez
TMA, 2018
80. **A Study on the Privacy Implications of Mobile Parental Control Apps**
A. Feal, J. Gamba, N. Vallina-Rodriguez, C. Troncoso, A. Gorla, P. Calciati
TMA, 2018
81. **Content Distribution Networks in the mobile age**
F. Michelinakis, H. Doroud, A. Razaghpanah, A. Lutu, N. Vallina-Rodriguez, P. Gill, and J. Widmer
ACM IMC, 2017
82. **Characterising users experience and critical path in mobile applications**
A. Finamore, J. Newman, D. Perino, N. Rattनाविपानон, C. Soriente, and N. Vallina-Rodriguez
ACM IMC, 2017
83. **Lumen: The No-Root Mobile Measurement App**
A. Razaghpanah, N. Vallina-Rodriguez, S. Sundaresan, M. Allman, C. Kriebich, and P. Gill
ACM Mobicom (Mobile app contest), 2017
84. **Lumen: Fine-Grained Visibility and Control of Mobile Traffic in User-Space**
N. Vallina-Rodriguez, C. Kriebich, M. Allman, and V. Paxson
NSF SaTC PI-meeting, 2017
85. **A client-side analysis of TLS usage in mobile apps**
A. Razaghpanah, N. Vallina-Rodriguez, and P. Gill
Usenix Security, 2016
86. **Haystack: In situ Mobile Traffic Analysis in User Space**
A. Razaghpanah, N. Vallina-Rodriguez, S. Sundaresan, C. Kriebich, P. Gill, M. Allman and V. Paxson
ACM HotMobile, 2016
87. **Signposts: End-to-End Networking in a World of Middleboxes**
Richard Mortier, Andrius Aucinas, Amir Chaudhry, Jon Crowcroft, S Eide, Steve Hand, Anil Madhavapeddy, A Moore, Charalampos Rotsos, N. Rodriguez
ACM SIGCOMM, 2012
88. **ErdOS: An energy-aware social operating system for mobile handsets**
N. Vallina-Rodriguez and J. Crowcroft
OSDI, 2010
89. **Goose: social network services for developing regions and rural areas**
N. Vallina-Rodriguez, P.Hui, and J. Crowcroft
ACM SIGCOMM, 2009
- Magazine articles
90. **50 Ways to Leak Your Data An Exploration of Apps' Circumvention**
J. Reardon, A. Feal, P. Wijesekera, A. Elazari Bar On, N. Vallina-Rodriguez, S. Egelman
;login: The USENIX Magazine. Winter 2019, Vol. 44, No. 4, 2019
91. **7 in 10 smartphone apps share your data with third-party services**
N. Vallina-Rodriguez, and S. Sundaresan
Communications of ACM, 2017
92. **The Adblocking Tug-of-War**
H. Haddadi, R. Nithyanand, S. Khattak, M. Javed, N. Vallina-Rodriguez, M. Falahrastegar, J. E. Powles, E. De Cristofaro, S. J. Murdoch
;login: The USENIX Magazine. Winter 2016, Vol. 41, No. 4, 2016
- Tech reports
93. **Back in control—An extensible middle-box on your phone**
J. Newman, A. Razaghpanah, N. Vallina-Rodriguez, F. Bustamante, M. Allman, D. Perino, A. Finamore
Arxiv, 2020
94. **JPush Away Your Privacy: A Case Study of Jiguang's Android SDK**
J. Reardon, N. Good, R. Richter, N. Vallina-Rodriguez, S. Egelman, and Q. Palfrey
ICSI Tech Report, 2020

95. **Haystack: In situ Mobile Traffic Analysis in User Space**
A. Razaghpanah, N. Vallina, S. Sundaresan, C. Kreibich, P. Gill, M. Allman, and V. Paxson
Arxiv, 2015
- PhD Thesis 96. **Cross-layer analysis of energy and spectrum waste of mobile applications**
N. Vallina-Rodriguez
University of Cambridge, 2013

Patents

Filed Patents

- Automatic, Agnostic and Hybrid Approach for Software Development Kit (SDK) detection (International Patent)
A. Feal, N. Vallina-Rodriguez, J. Reardon, S. Egelman, R. Richter and N. Good
Filed: 2023-10-17. Application number: PCT/US2023/077101 (Under review)
- Method and Apparatus for Dynamic Outbound Firewalling Via Domain Name System (DNS) (Internatinonal Patent)
D. Childers, N. Vallina-Rodriguez, A. Saxena, J. Reardon, R. Richter, P. Tirena, N. Good, S. Egelman
Filed: 10.10.2022. Application number: PCT/US2023/072556 (Under review)

Granted Patents

- Automatic identification of applications that circumvent permissions and/or obfuscation data flows. **U.S. Patent No. 11,689,551**
J. Reardon, N. Vallina-Rodriguez, S. Egelman, N. Good
Filed: 26.06.2020. Granted: 27.06.2023
- Distribution of broadband multimedia streams in WiFi connections. **EP2124387B1**
I. De Vega Mayordomo; P. Rodriguez Rodriguez; N. Vallina-Rodriguez
Filed: 19.05.2009. Granted: 18.09.2013

Common vulnerabilities and exposures (CVEs)

2022	CVE-2022-2164	Chromium	Severity 6.3 (NIST NVD)
2021	CVE-2021-31815	GAEN	Severity 3.3 (NIST NVD)
2020	CVE-2020-0293	Android	Severity 5.5 (NIST NVD)
	CVE-2020-0454	Android	Severity 5.5 (NIST NVD)
	CVE-2020-26230	Radar Covid	Severity 7.4 (Github CNA)
2019	CVE-2019-9461	Android Kernel	Severity 6.5 (NIST NVD)
	CVE-2019-14899	Linux, FreeBSD, OpenBSD, MacOS, iOS, and Android	Severity 7.4 (NIST NVD)

Keynotes, panels, plenary sessions, and seminars

Round tables and panels	2023	ENISE RENIC: Mapa de Capacidades en I+D+i.	León (ES)
	2020	CPDP The GDPR is easy: (Un)tangling SME compliance hurdles	Brussels (BE)
	2019	South Summit Data protection as a driver for innovation	Madrid (ES)
		Menendez Pelayo International University (UIMP) Tecnologías de seguimiento, perfilado y protección de datos	Santander (ES)
Keynotes	2023	ACNS2023 International Workshop on Security in Mobile Technologies How Evidence-based Research Can Enhance Mobile Privacy and Security	Kyoto (JP)

	2021	6th International Workshop on Traffic Measurements for Cybersecurity (WTMC 2021) Co-located with the 42nd IEEE Symposium on Security and Privacy Measuring the Android Supply Chain: Privacy and Security Risks	Virtual
	2017	IEEE TMA Conference Title: Crowdsourcing Network and Traffic Measurements to Illuminate the Mobile Ecosystem	Maynooth (EI)
Plenary	2019	European Data Protection Board (EDPB) An Analysis of Pre-installed Android Software	Brussels (BE)
	2017	Federal Trade Commission (FTC) PrivacyCon Understanding the Mobile Ecosystem with the Lumen Privacy Monitor	Washington DC (USA)
	2015	APNIC 39 / APRICOT Real Mobile/Wireless Broadband: Trailblazing into the future	Fukuoka (JP)
	2014	NANOG 62 Understanding User Experience on Mobile Devices with the ICSI Netalyzer	Baltimore (USA)
Dissemination	2022	Colegio Palacio de Granda Ciberseguridad: ¿Alerta Roja?	Oviedo (ES)
	2021	Gijón conCiencia La realidad de las tecnologías de seguimiento y monitorización en línea	Gijón (ES)
	2019	European Researcher's Night (MSCA) IMDEA-CSI	Madrid (ES)
	2017	European Researcher's Night (MSCA) IMDEA-CSI	Madrid (ES)
Talks / seminars		European Data Protection Board (Expert meeting) (Belgium), University of British Columbia (Canada), Universidad del Desarrollo (Chile), Universidad de Chile (Chile), INRIA (France), Technicolor (France), VMWare (France), TU Munich (Germany), Bell Labs (Ireland), Trinity College Dublin (Ireland), University of Pisa (Italy), University of Trento ("PI stories" series), Institute for Information Law, University of Amsterdam (Netherlands), IMDEA Networks (Spain), IMDEA Software (Spain), Universidad Carlos III Madrid (Spain), Universidad de Comillas / ICAI (Spain), Universidad Rey Juan Carlos (Spain), INCIBE (Spain), Telefonica Alpha (Spain), Jornadas RediMadrid 2020 (Spain), Telefonica Research (Spain), ETH Zurich (Switzerland), Alan Turing Institute (U.K.), Microsoft Research (UK), University College London (UK), Queen Mary University of London (UK), Next Generation Networking Workshop (UK), the USA Federal Communications Commission (USA), Google (USA), Brave (USA), Data Transparency Lab (USA and Spain), Facebook (USA), CAIDA / UCSD (USA), UC Berkeley (USA), University of Maryland (USA), New York University (USA), Northeastern University (USA), Qualcomm (USA), AdRoll (USA), Uber (USA), Akamai (USA), Google (USA), and NEC Labs America (USA).	
Other		My students or colleagues have also presented joint work at the CNIL Privacy Research Day (2022), RIPE Plenaries (Philipp Richter at RIPE 73 , Patricia Callejo at RIPE 76 , and Oliver Gasser at RIPE 81), IETF meetings (Muhammad Talha Parach, IRTF MAPRG at IETF-112 , Oliver Gasser, IETF-109 MAPRG , Sandra Siby, IETF-105 Weizembaun Institute (Georgios Smaragdakis), DEF CON 26 (Irwin Reyes, Crypto and Privacy Village), Realworld Crypto (Johanna Amman, 2020), at the FTC PrivacyCon (Jingjing Ren, Irwin Reyes, Primal Wijesekera), USENIX Enigma (Serge Egelman), OWASP Meetup Jan 2020 (South Bay) (Serge Egelman).	

Mentoring and student supervision

Graduated PhD students	11/2022	Alvaro Feal	IMDEA Networks
	09/2022	Julien Gamba (Consumer Reports Digital Lab Fellow & Google Fellow)	IMDEA Networks
	10/2019	Abbas Razaghpanah	Stony Brook University †
Postdocs	04/2021 - 10/2021	Srdjan Matic	IMDEA Networks
	04/2019 - 04/2020	Marius Paraschiv	IMDEA Networks
PhD students	03/2023 - Present	Nipuna Weerasekera	IMDEA Networks
	08/2022 - Present	Vinuri Bandara	IMDEA Networks

	09/2020 - Present	Aniketh Gireesh	IMDEA Networks
PhD interns	10/2020 - 12/2020	Ali Davanian (UC Riverside)	ICSI
	10/2019 - 12/2019	Kaspar David Hageman (Aalborg University)	IMDEA Networks
	02/2019 - 04/2019	Antonio Montieri (University of Napoli)	IMDEA Networks
	09/2018 - 08/2019	William Tolley (University of New Mexico)	ICSI †
	06/2018 - 09/2018	Shehroze Farooqi (University of Iowa)	ICSI
	06/2018 - 09/2018	Muhammad Ahmad Bashir (NEU)	ICSI
	06/2017 - 09/2017	Mohammed Taha Khan (UIC)	ICSI †
	06/2017 - 09/2017	James Newman (Northwestern University)	ICSI
	06/2017 - 09/2017	Abbas Razaghpanah (SBU)	ICSI
	02/2017 - 06/2017	Hossein Doroud (UC3M)	IMDEA Networks
	06/2015 - 09/2015	Abbas Razaghpanah (SBU)	ICSI
MsC Students	2023 - 2024	Nipuna Weerasekera	UPM
	2022 - 2023	Vinuri Bandara	UPM
	2020 - 2021	Aniketh Girish	UC3M
	2019 - 2020	Alejandro Amaro	UC3M
	2010 - 2011	Rokey Ge	University of Cambridge
BsC students	2012 - 2013	Amy O'Sullivan	University of Cambridge
	2011 - 2012	Jay Shah	University of Cambridge
	2010 - 2011	Mark Hogan	University of Cambridge
	2010 - 2011	Michael Clark	University of Cambridge
Pre-doc	11/2022 - Present	Celia Cabello	IMDEA Networks (INVESTIGO)
	04/2021 - 07/2021	Daniel Santa Olalla Peña (UC3M)	IMDEA Networks
	02/2019 - 05/2019	Alberto Martin (UPM)	IMDEA Networks
	05/2018 - 06/2018	Joel Rodiel Lucero (San Diego HighTech)	IMDEA Networks
	12/2016 - 06/2017	Ronald Arnanjaya (UC Berkeley)	ICSI

† Co-supervised with Prof. Phillipa Gill (UMass-Amherst)

‡ Funded by an Open Technology Fund (OTF) Fellowship

Teaching

2020-2021	MSc in Cybersecurity (CiberJueves) Guest lecturer: No aceptes caramelos de extraños!": Privacidad y regulación en tecnologías móviles (1.5h)	Universidad de Comillas (ES)
2019-2020	MSc in Cybersecurity Guest lecturer: Mobile Applications, Trackers and Privacy (1.5h)	UC3M (ES)
	MSc Telematics Guest lecturer: Internet Measurements (1.5h)	UC3M (ES)
	PhD School Guest lecturer: Internet Measurements (15h)	UC3M (ES)
2018-2019	5th Interdisciplinary Summerschool on Privacy (ISP 2019) Have I given consent to this? Analyzing the transparency of Mobile products (2h)	Nijmegen (NL)
	TMA PhD School Studying Mobile Traffic with the Lumen Traffic Monitor	Paris (FR)
	MSc in Cybersecurity Guest lecturer: Towards Building a Complete Picture of the Privacy Risks in Android (1.5h)	UC3M (ES)
	MSc in Telematics Engineering Guest lecturer: Measuring mobile traffic (1.5h)	UC3M (ES)
2017-2018	MSc in Telematics Engineering Guest lecturer: Crowdsourcing mobile measurements (1.5h)	UC3M (ES)
2016-2017	MSc in Telematics Engineering Guest lecturer: Crowdsourcing mobile measurements (1.5h)	UC3M (ES)
2016	Spring School on Networks Guest lecturer: Analisis Empirico de Sistemas Moviles: Iluminando El Lado Oscuro (1h)	NIC Labs (Chile)
2011-2012	BSc in Computer Science	University of Cambridge (UK)

	Student supervisor: Principles of Communications (Lecturer: Prof. Jon Crowcroft)	
2010-2011	BsC in Computer Science Student supervisor: Principles of Communications (Lecturer: Prof. Jon Crowcroft)	University of Cambridge (UK)
2009-2010	BsC in Computer Science Student supervisor: Advanced Systems Topics (Lecturer: Prof. Steve Hand)	University of Cambridge (UK)
2009-2010	BsC in Computer Science Student supervisor: Digital Communications II (Lecturer: Prof. Jon Crowcroft)	University of Cambridge (UK)

Software

My team has been actively involved in the development of publicly available software for mobile software analysis, network analysis and network troubleshooting.

- Methods for TLS Analysis on iOS and Android apps**
<https://github.com/Android-Observatory/IoT-LAN>
 Code for testing privacy and security threats of IoT Local Network protocols (e.g., UPnP, mDNS) in home networks. Code includes tools for 1) active scans, 2) honeypots, 3) traffic analysis, and 4) app analysis scripts. See IMC'23 paper "In the Room Where It Happens: Characterizing Local Communication and Threats in Smart Homes" for further details.
- Methods for TLS Analysis on iOS and Android apps**
<https://github.com/NEU-SNS/app-tls-pinning>
 Scripts for analyzing TLS certificate pinning on Android and iOS apps (See IMC'22 paper).
- Dextripador**
<https://github.com/Android-Observatory/Dextripador>
 A tool to extract the DEX file from ODEX compiled ahead of time version.
- App Versions Tool**
<https://recon.meddle.mobi/appversions/index.html>
- FirmwareScanner** (10,000 users)
<https://play.google.com/store/apps/details?id=org.imdea.networks.iag.preinstalleduploader>
- Lumen Privacy Monitor** (21,000 users)
<https://play.google.com/store/apps/details?id=edu.berkeley.icsi.haystack>
- Netalyzr for Android** (80,000 users) (Discontinued)
<https://play.google.com/store/apps/details?id=edu.berkeley.icsi.netalyzr.android>
- RIL Analyzer** (Discontinued)
https://github.com/narseo/ril_analyze

Public datasets

- Your Code is 0000: An Analysis of the Disposable Phone Numbers Ecosystem Resources**
<https://github.com/josemmo/your-code-is-0000>
 Dataset containing a list of the public SMS Gateways crawled during the analysis, and aggregated data of over 200 online services sending messages to DPNs
- Understanding Incentivized Mobile App Installs on Google Play Store**
<https://www.github.com/shehrozef/IncentInstalls>
- Data sets for paper "Tracking the deployment of TLS 1.3 on the Web: A story of experimentation and centralization"**
<https://dx.doi.org/10.25606/SURF.ec84cf2afb7e9096>
- Android Observatory (Datasets and tools)**
<https://www.androidobservatory.com>
 Contains several datasets, tools, and research artefacts used in published work in the area of Android app analysis, and mobile privacy and security.
- Domain Ranks**
<https://toplists.github.io>
- TLS Client Fingerprints**
https://github.com/platonK/tls_fingerprints
- CloudMap** (dataset and code)
<http://wireless.networks.imdea.org/cloudmap-project>
- TLS handshake fingerprints for more than 30K Android apps**

- <https://haystack.mobi/datasets.html>
9. **Research data supporting “Adblocking and Counter-Blocking: A Slice of the Arms Race”**
<https://www.repository.cam.ac.uk/handle/1810/256770>
 10. **HTTP Header injection in mobile networks** (via CRAWDDAD)
<https://crawdad.org/icsi/netalyzr-android/20150324/>
 11. **Netalyzr dataset** (via DHS IMPACT)
https://impactcybertrust.org/dataset_view?idDataset=465

Selected media coverage

IoT Security and Privacy	Cadena Ser 01/2024	(Radio Interview) Las amenazas a la seguridad y privacidad en los hogares inteligentes
	Onda Cero - Julia en la Onda, 11/2023	(Radio Interview) Los aparatos inteligentes en casa, ¿Son un peligro para nuestra intimidad?
	ABC , 11/2023	Espías en casa: la cara oscura de internet de las cosas en los 'hogares inteligentes'
	El Correo , 11/2023	Los dispositivos que tenemos en casa hablan entre sí y no te va a gustar lo que se cuentan
	HiddenWires , 11/2023	New research reveals privacy and security threats in smart homes
	La Nueva España , 11/2023	Así nos vigilan los dispositivos inteligentes en casa: saben dónde vivimos, qué hacemos en cada momento y hasta pueden averiguar nuestro nivel de renta
	Cadena Cope - La Tarde, 11/2023	(Radio Interview) ¿Le darías información íntima a un extraño? Esto es lo que los dispositivos electrónicos saben de tí
	Wired , 10/2023	Los dispositivos de tu hogar inteligente te espían, advierte este inform
	CBS News Calgary , 10/2023	(TV Interview) Are your home's smart devices leaking private data? Calgary researcher set to find out
	El País , 10/2023	'People have no idea': How smart devices spy on us and reveal information about our homes (English Version)
	El País , 10/2023	Así nos espían los dispositivos inteligentes y revelan información de nuestras casas: La gente no tiene ni idea (Spanish Version)
Android Logs	El Pais , 05/2023	This is how Android apps reveal our secrets without us being aware of it (English Version) Asi revelan las apps de Android nuestros secretos sin que lo sepamos (Spanish Version)
Social Media Panels	Onda Cero (Mas de Uno) , 04/2023	(Radio Interview) Full Show Podcast
	ABC , 03/2023	1,3 euros por 1.000 likes: las interacciones falsas que contaminan las redes sociales
	La Vanguardia , 03/2023	Comprar 1.000 likes en Instagram cuesta 1,3 euros, y por menos de nueve centimos se logran 1.000 visualizaciones en TikTok
	CyberMagazine , 03/2023	A fantasy world of fake likes is big business in real life
	Cadena SER , 02/2023	(Radio Interview) El gran negocio de las reseñas falsas: “Por 25 valoraciones positivas se estan pagando 170 euros en Internet”.
	El Pais , 01/2023	¿Cuanto cuesta ser famoso en redes haciendo trampa? Asi varian las tarifas para comprar interacciones falsas.
Ukraine War	FastCompany , 02/2023	Researchers show how activists use online reviews within Russia to protest the Ukraine invasion

Parental-control apps/Children privacy	ABC , 01/2024	Mucho cuidado: las aplicaciones con las que controlas a tus hijos pueden estar explotando su vida digital
	TDG.ch , 12/2022	Offrir une tablette aux enfants, une bonne idée?
	RTVE.es (Telediario) , 10/2022	Control Parental. Saberlo casi todo.
	Maldita.es , 08/2021	Aplicaciones de control parental, acelerómetros en los móviles y propinas en UberEats: todo en el 60 ⁰ consultorio de Maldita Tecnología
	Atresmedia.com , 05/2021	Ojo a los datos que piden las "apps" de control parental
	Business Insider (Spain) , 02/2021	Several parental control apps are privacy oaque and manipulate data for advertising purposes, research finds
	La Repubblica (Italy) , 02/2021	Nella giungla delle app per il controllo parentale, minaccia per bambini e genitori
La Vanguardia , 07/2019	Estudio hispanosuizo alerta sobre riesgos de aplicaciones de control parental	
Privacy risks of Contact-Tracing Apps	Newtral , 06/2022	Radar COVID: cómo una app basada en el protocolo más respetuoso con la privacidad terminó sancionada por Protección de Datos
	El Pais (Spain) , 04/2021	Una investigación revela un error de Google en la privacidad de las aplicaciones de rastreo de contactos
	The Verge , 04/2021	Android bug exposed COVID-19 contact tracing logs to preinstalled apps
	The Markup , 04/2021	Google Promised Its Contact Tracing App Was Completely Private—But It Wasn't
	El Pais (Spain) , 10/2020	El Gobierno da finalmente los detalles de la brecha de seguridad de Radar Covid
	El Pais , 04/2020	El peligro de las apps: la Generalitat emplea una empresa de marketing en su aplicacion contra el coronavirus
COVID-19 traffic shifts	El Pais , 03/2021	La nueva normalidad de nuestro consumo de internet: cuando ya no se distingue un martes del fin de semana
Side-channels in Android apps	El Pais , 08/2019	Como saber cuando una "app" accede a la ubicacion, la camara o el microfono del movil
	CNET , 07/2019	More than 1,000 Android apps harvest data even after you deny permissions
	Independent , 07/2019	Hundreds of Android apps steal your data even if you deny permission, study reveals
	The Verge , 07/2019	Thousands of Android apps can track your phone — even if you deny permissions
	Business Insider (Spain) , 07/2019	Más de 1.300 apps te siguen espiando el movil aunque no les hayas dado permiso, y entre las implicadas están Samsung, Baidu o Disney
	Fast Company , 07/2019	These are the sneaky new ways that Android apps are tracking you
Privacy risks of preloaded Android software	The Register , 05/2019	Eggheads confirm: Rampant Android bloatware a privacy and security hellscape
	ABC (Spain) , 04/2019	Software preinstalado en Android: la amenaza silenciosa que acecha al usuario
	El Pais , 04/2019	Google y los fabricantes no aclaran la vigilancia oculta en los moviles Android
	Le Figaro , 04/2019	La collecte cachée des applications préinstallées sur Android
	TechCrunch , 03/2019	Android users' security and privacy at risk from shadowy ecosystem of pre-installed software, study warns
	The Times (UK) , 03/2019	Android apps gather user data without permission
La Vanguardia , 03/2019	Android permite a empresas acceso indebido a datos personales	

	ZDNet , 03/2019	Android ecosystem of pre-installed apps is a privacy and security mess
	RTVE (TV) - Nightly news , 03/2019	Telediario 9 pm - Minute 33
	RNE (Radio) - Todo Noticias , 03/2019	Aplicaciones móviles que nos espían
	Cadena COPE (Radio) - Herrera en COPE , 03/2019	¿Sabes cómo tu móvil Android te espía?
	TV3 (TV) - News , 03/2019	Ens espein a traves del mobil?
	Telecinco (TV) , 03/2019	El móvil: Tu mejor y tu peor aliado te espía con aplicaciones que te instalan otros
	RTVE (TV) , 03/2019	Los móviles Android acceden de forma masiva a los datos personales de los usuarios sin su conocimiento
	Telecinco (TV) , 03/2019	El móvil: Tu mejor y tu peor aliado te espía con aplicaciones que te instalan otros
	Cadena COPE (Radio) , 03/2019	Un estudio revela vigilancia masiva por móvil con aplicaciones preinstaladas
	RTVE (TV) , 03/2019	Los móviles Android acceden de forma masiva a los datos personales de los usuarios sin su conocimiento
	Publico , 03/2019	Protección de Datos ve "riesgos para la privacidad" en los dispositivos Android
	EuropaPress , 03/2019	Android permite que gran número de actores monitoricen y obtengan información personal de usuarios, según un estudio
	TV3 (TV) - Els Matins , 03/2019	Mòbils espies: la privacitat en risc
	El Pais , 03/2019	Cómo le vigilan los móviles Android sin que lo sepa
	El Pais , 03/2019	I spy: How Android phones keep tabs on our every move (English Version)
	Reuters , 03/2019	Study Shows Limited Control Over Privacy Breaches by Pre-Installed Android Apps
Privacy Risks on Children Android Apps	Law360 , 08/2020	Disney, Viacom Agree To Limit Data Collection In Kids Apps
	NBC News , 12/2018	Google hit with FTC complaint over 'inappropriate' kids apps
	The New York Times , 09/2018	How Game Apps That Captivate Kids Have Been Collecting Their Data
	NBC (TV) - Nightly News , 05/2018	Thousands of Android apps improperly tracking kids' data, new study shows
	The Guardian , 05/2018	Thousands of Android apps potentially violate child protection law
	Washington Post , 05/2018	Thousands of apps in Google Play Store may be illegally tracking children, study finds
	FOX News (TV) , 05/2018	Thousands of Android apps may improperly track kids' activities
	New York Post , 05/2018	A slew of apps are creepily spying on our kids
	US Today , 05/2018	Thousands of Android apps improperly track children, study finds
	The Globe and Mail , 05/2018	Thousands of Android apps improperly tracking kids' data, new study shows
	El Pais , 05/2018	Privacy on the net: Children's apps are privacy risk for minors
	Fortune , 05/2018	Google Responds to Study Claiming a Majority of Children's Android Apps Potentially Track Kids
	Engadget , 05/2018	Study finds over 3,300 Android apps improperly tracking kids
	CNET , 05/2018	Thousands of Android apps are tracking children, study finds
	The Verge , 05/2018	Report finds more than half of Android apps for children are in violation of COPPA
	The Inquirer , 05/2018	Thousands of Android apps may be collecting children's data illegally
	Android Authority , 05/2018	Many child-oriented apps potentially violate US' child privacy law
	Nextgov , 05/2018	Thousands of Apps Improperly Tracking Kids, Study Finds
Boston Globe , 03/2018	Facebook is just the tip of the iceberg. Thousands of apps can take your data	
RTVE (TV) - Telediario , 12/2017	Privacy on the net: Children's apps are privacy risk for minors	

	El Periodico , 12/2017	“Apps” infantiles roban datos personales de menores
VPN services and their risks	NPR , 08/2017	Turning To VPNs For Online Privacy? You Might Be Putting Your Data At Risk
	Wired , 02/2017	Beware: Most Mobile VPNs Aren't as Safe as They Seem
	Wired (UK) , 01/2017	Android VPN app developers are using malware to track your data
	ArsTechnica , 01/2017	Majority of Android VPNs can't be trusted to make users more secure
	The Verge , 01/2017	Most free Android VPNs leak data and many don't even use encryption, says study
	ABC (Australia) , 01/2017	Viruses, spyware found in “alarming” number of Android VPN apps
	Android Authority , 01/2017 ZDNet , 01/2017	Researchers warn of vast problems with Android VPN apps VPNs are not as private as the name suggests
Web and mobile tracking	Newtral , 09/2021	Los datos de geolocalización que recoge tu móvil: entre el riesgo y la promesa
	Android Central , 06/2021	Why Google's plan to reduce Android ad tracking is both smart and sneaky
	DigitalTrends , 03/2020	The secret way most apps spy on you even when you think they aren't
	El Pais , 07/2019	Quién sabe que miras porno “online”
	El Pais , 07/2019	La mejor lección de la polemica de FaceApp
	Financial Times , 10/2018	How smartphone apps track users and share data
	BuzzFeed , 10/2018	A Lot Of Apps Sell Your Data. Here's What You Can Do About It
	FastCompany , 05/2017	Smartphone apps are tracking you and here's how to know what they know
Ad-blocking	Heise , 05/2016	Pagefair: Mobile Adblocker verbreiten sich rasant
Personal inter-views/news	El País , 01/2024	Los expertos alertan de los peligros y dificultades de la app antiporno del gobierno: nunca se ha conseguido con éxito
	El País , 09/2023	¿Cómo se coló en los móviles? Por qué la alerta por lluvias no invade la privacidad
	Cadena SER , 02/2023	(Radio Interview) “No valen nada”: el mayor error que cometemos todos con nuestros datos personales en Internet.
	El Español/Invertia , 03/2022	(Disruptores-innovadores) Narseo Vallina, el investigador español que vigila las 'apps' móviles para que ellas no nos vigilen a nosotros
	RTVE (Telediario) , 01/2022	La protección y privacidad en los metaversos, un reto para las grandes tecnológicas
	Agencia Iberoamericana para la difusión de la ciencia y la tecnología , 01/2022	La AEPD otorga por tercera vez consecutiva su premio de protección de datos a investigadores de IMDEA Networks
	ScienceX , 01/2022	The AEPD awards its third consecutive data protection prize to IMDEA Networks researchers
	Agencia Iberoamericana para la difusión de la ciencia y la tecnología , 12/2021	Narseo Vallina-Rodríguez y Guillermo Suárez-Tangil, galardonados con las ayudas de investigación Ramón y Cajal
	El Comercio , 11/2021	En cada aplicación de nuestro móvil hay cinco empresas monitorizando nuestra vida
	El Pais , 10/2021	Por qué la recomendación de deshacerse de los móviles Xiaomi revela una amenaza más grave de lo que parece
	Agencia Iberoamericana para la difusión de la ciencia y la tecnología , 01/2020	AEPD and CNIL award their data protection prizes to a team including researchers from IMDEA Networks
El Pais , 10/2019	Fuera WhatsApp y pegatinas en las camaras: qué tienen los expertos en privacidad en sus “smartphones”	

El Pais, 10/2019

Por qué Facebook se ha caído tantas veces este año

El Comercio, 12/2017

Mucha gente usa la tecnología sin saber lo que hay detrás y los datos que envía

Societal, regulatory and industry impact

2023	Vulnerabilities in IoT local network traffic	Our IMC 2023 study In the Room Where It Happens: Characterizing Local Communication and Threats in Smart Homes identified multiple security and privacy issues in home devices. We sent disclosures to 19 IoT vendors and manufacturers, and reported to Google a list of Android mobile apps and SDKs that we discovered collecting sensitive local network information. We received responses from 11 of these parties, triggering patches in widely used products such as Phillips Hue. Google representatives publicly recognized that the attacks discovered in our paper have real world impact and that are taking action to mitigate them. In fact Google awarded us with a \$2,000 bug bounty for our discovery —donated to Médecins Sans Frontières (MSF)— and it engaged with us to explore mitigations that could be implemented via the Android OS, app review processes and IoT standardization efforts. The paper has received substantial media attention.
	Leaks of sensitive information in Android logs	Our USENIX Security 2023 paper <i>Log: It's Big, It's Heavy, It's Filled with Personal Data! Measuring the Logging of Sensitive Information in the Android Ecosystem</i> studied how apps log sensitive information. We responsibly disclosed our findings to Google and engaged with them in conversations about improving the logging framework. In response to our disclosure, Google introduced a new security control in Android 13 and above to help users manage access to device logs, with the goal of preventing entities from surreptitiously collecting user logs as a matter of routine.
	Vulnerabilities in the Chromium Debugger API	Our IEEE Euro S&P paper Chrowned by an Extension: Abusing the Chrome DevTools Protocol through the Debugger API identified several vulnerabilities in the Chromium Debugger API and in the granting of capabilities to extensions. We responsibly disclosed our findings to Google, which assigned CVE-2022-2164 to one of the vulnerabilities. Some of the remaining disclosures are still in discussion.
2022	US Federal Lawsuit	On July 2022, an USA Federal Judge has given approval for a lawsuit against Google for exposing sensitive users' data through their Google and Apple Exposure Notification (GAEN) technology and the Android's system logs . The lawsuit is based on our AppCensus' discovery as acknowledged in the note.
2021	US Congress about Location Tracking	On December 9, 2021, 44 members of the US Congress sent a letter addressed to the USA Federal Trade Commission (FTC) and Federal Communications Commission (FCC) to develop new rules against the collection of consumers' location data. To motivate the letter, they reference our USENIX Security'19 paper <i>"50 Ways to Leak Your Data: An Exploration of Apps' Circumvention of the Android Permission System"</i> .
	Covid-19 impact on Internet Traffic	Our ACM IMC'20 paper about the impact that the confinement measures implemented to combat the Covid-19 pandemic had on Internet traffic has been extensively covered in RFC 9075 . Moreover, ARCEP, the national agency in charge of regulating telecommunications in France, has also cited our paper in their "State of the Internet in France 2021" .
	COPPA Rule. USA Congress	As a result of our PETS'18 paper about the privacy risks of children-oriented apps, my co-author Serge Egelman testified to the US Congress on May 18th 2021 on the hearing "Protecting Kids Online: Internet Privacy and Manipulative Marketing".
	COPPA Rule. USA FTC	The Center for Digital Democracy and the Campaign for a Commercial-free Childhood launched a request to the USA FTC to investigate Google's potentially unfair and deceptive practices in marketing apps for children citing our PETS'18 paper.
	Privacy Risks of Contact-tracing Apps	We have identified and reported two vulnerabilities in Google's Exposure Notification API (CVE-2021-0575) and in the national Contact-Tracing app developed by the Spanish government (Radar Covid) (CVE-2020-26230). Both vulnerabilities could compromise users' privacy and digital rights of hundreds of millions of users. They have been fixed by Google and the Spanish health authority, respectively, after our disclosure.

2020	UK Competition and Market Authority (CMA)	UK's CMA published a report about online platforms and digital advertising. The report highlights that competition is not working well in these markets, leading to substantial harm for consumers and society as a whole. Our research on mobile privacy, the privacy-risks of mobile pre-installed apps, and our analysis of mobile regulatory compliance is heavily cited in Appendix G on tracking. The report recommends that further work in collaboration with the ICO is done on pre-installed apps in the Android ecosystem.
	ACCC	As part of AppCensus, we created a report for the Australian Competition and Consumer Commission about the privacy risks of 1,000 popular Android apps in Australia.
	Privacy International	Privacy International (PI) has launched an international campaign to demand Google measures to enforce control over pre-installed Android software citing our paper.
	Cloudflare	After our responsible disclosure, Cloudflare added padding to their DoH implementations in order to prevent traffic fingerprinting attacks (paper published at NDSS 2020).
2019	AEPD/EDPB	The AEPD (the Spanish Data Protection Agency) issued a press release to disseminate our analysis on the privacy-risks of pre-installed apps. We were later invited to present our work at the EDPB meeting in July 2019.
	Google	We reported to Google our findings regarding side-channels and covert-channels being used by Android apps in the wild to obtain user's location and unique identifiers without consent (USENIX Security'19 paper). Google modified the Android permission model in Android 10 to eliminate these vulnerabilities. We have been rewarded with a bug bounty in exchange.
	Mozilla State of the Internet	Mozilla's " State of the Internet Report " featured our analysis of the privacy risks of pre-installed apps
2018	Legal Actions resulting from our COPPA study	Multiple class action lawsuits against the developers of children's apps potentially violating the COPPA rule are using our paper's data, and cite it in their complaints. Based on the above litigation, several large privacy-invasive SDK developers have agreed to injunctive relief under which they are now required to proactively ensure that their SDKs are either not used in children's apps or correctly configured to disable behavioral tracking. (The details will be publicly announced in the coming months.) CASE: State of New Mexico Ex. Rel. Hector Balderas, Attorney General, The State, vs. Tiny Lab Productions, Twitter Inc., Mopub, Google, Inc., Admob Inc., Aerserv LLC, Inmobi Pte Ltd., Applovin Corporation, and IronSource USA, Inc.
	COPPA and Google / Apple	In response to our COPPA study, Google announced new Play Store policies for app developers with regard to children's privacy. This prompted Apple to one-up Google, by creating even more stringent privacy requirements and policies for app developers. In April 2021, Apple cited our paper in its educational report A Day in the Life of Your Data .
	COPPA and Facebook	Facebook received a copy of the results from the COPPA paper and used it to cut off API access to app developers using the Facebook SDK in child-directed apps, rewarding us with a bug bounty.
	US Senate and FTC about COPPA	Three US senators (Tom Udall, Edwards Markey and Richard Blumenthal) asked the FTC to open an investigation about Google's lack of control over children applications published in Google Play. This prompted the prompted the FTC to revisit its COPPA rulemaking authority ahead of schedule, which will result in updates to the associated regulations. In May 2021, co-author Dr. Egelman testified on this matter to the US Senate.
2017	Europol	Europol cited our IMC'16 paper about Carrier Grade NATs (CGNs) deployments in a blogpost discussing the difficulties to attribute criminal evidence due to CGNs.
	CDT	The Center for Democracy and Technology (CDT) has used our IMC'16 paper on Android VPN apps to request that the Federal Trade Commission (FTC) investigates HotspotShield, one of the offending apps found in our analysis.