

Nataliia Bielova

Chargée de Recherche (CRCN), Inria

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1 Education and employment

2020 - ongoing	Chargée de Recherche (CRCN) , PRIVATICS team at Inria Grenoble Rhône-Alpes administrative residence at Inria Sophia Antipolis – Méditerranée.
2016 - 2019	Chargée de Recherche (CR1, then CRCN) , INDES team at Inria Sophia Antipolis – Méditerranée
2013 - 2015	Chargée de Recherche (CR2) , INDES team at Inria Sophia Antipolis – Méditerranée.
2012 - 2013	Post-doc , CELTIQUE team at Inria Rennes Bretagne Atlantique
2010	Visiting scholar , Katholieke Universiteit Leuven, Belgium
2009	Visiting scholar Carnegie Mellon University, USA
2007 - 2011	PhD in Computer Science, University of Trento, Italy Date awarded: November 28, 2011

2 Prizes and awards

- **ANR Jeunes chercheuses / Jeunes chercheurs (JCJC)** personal grant, Dec 2018 - Nov 2022.
- **Prime d'Encadrement Doctoral et de Recherche (PEDR)** d'Inria, Mar 2017 - Feb 2021.
- **LabEx postdoctoral fellowship**, Feb 2012 - Nov 2013.

3 Scientific Responsibilities

Since my PhD, I am continuously being invited to serve in technical program committees of major international conferences and journals listed below.

3.1 Award Committees

2020	<i>Award co-Chair</i> of CNIL-Inria Privacy Protection Award
2020	<i>Committee Member</i> of Caspar Bowden Privacy Enhancing Technologies Award
2019	<i>Award co-Chair</i> of CNIL-Inria Privacy Protection Award
2017	<i>Committee Member</i> of Data Transparency Lab Award

3.2 Member of the Steering Committee

2018 - 2020 ACM Workshop on Programming Languages and Analysis for Security (ACM PLAS)

3.3 Chair of Conference Program Committees

2017 ACM Workshop on Programming Languages and Analysis for Security (PLAS'17) at ACM CCS'17

3.4 Member of the Conference Program Committees

I have been a member of more than 20 technical program committees, including the flagship top-level conferences in security and privacy (highlighted in bold), such as PETs, IEEE S&P and TheWeb conferences:

- 2021 IEEE Symposium on Security and Privacy (**IEEE S&P'21**)
Privacy Enhancing Technologies Symposium (**PETs'21**)
IEEE S&P Workshop on Technology and Consumer Protection (ConPro'21)
NDSS Workshop on Measurements, Attacks, and Defenses for the Web (MADWeb'21)
- 2020 Privacy Enhancing Technologies Symposium (**PETs'20**)
Security and Privacy Track of TheWeb Conference (**TheWeb 2020**)
- 2019 Privacy Enhancing Technologies Symposium (**PETs'19**)
IEEE European Symposium on Security and Privacy (**IEEE EuroS&P'19**)
IEEE Secure Development Conference (IEEE SecDev'19)
NDSS Workshop on Measurements, Attacks, and Defenses for the Web (MADWeb'19)
Atelier sur la Protection de la Vie Privée (French workshop on Privacy Protection, APVP'19)
- 2018 International Conference on Principles of Security and Trust (**POST'18**)
IEEE Secure Development Conference (IEEE SecDev'18)
Symposium on Electronic Crime Research (eCrime 2018)
International Workshop on Programming Technology for the Future Web (ProWeb 2018)
IEEE Workshop on Legal and Technical Issues in Cloud Computing and the Internet of Things (CLaw 2018)
Atelier sur la Protection de la Vie Privée (French workshop on Privacy Protection, APVP'18)
- 2017 IEEE Computer Security Foundations Symposium (**IEEE CSF'17**)
IEEE Secure Development Conference (IEEE SecDev'17)
ACM Workshop on Programming Languages and Analysis for Security (PLAS'17)
Workshop on Foundations of Computer Security (FCS'17)
International Workshop on Programming Technology for the Future Web (ProWeb'17)
IEEE Workshop on Legal and Technical Issues in Cloud Computing and the Internet of Things (CLaw 2017)
Atelier sur la Protection de la Vie Privée (French workshop on Privacy Protection, APVP'17)
International Conference on Math. Methods, Models and Architectures for Computer Networks Security (MMM-ACNS 2017)
- 2013 ACM SIGPLAN Workshop on Programming Languages and Analysis for Security (PLAS'13)

3.5 Scientific Events Organisation

- 2018 General co-Chair of Atelier sur la Protection de la Vie Privée (APVP'18)
- 2017 General co-Chair of the **Dagstuhl Seminar** on Online Privacy and Web Transparency

- 2015 Publication Chair of the International Symposium on Engineering Secure Software and Systems (ESSoS'15)
- 2014 Publication Chair of the International Symposium on Engineering Secure Software and Systems (ESSoS'14)

3.6 Local responsibilities

- 2017-ongoing Member of Comité de Suivi Doctoral (CSD) of Inria Sophia Antipolis. The committee gives a scientific opinion on the hiring and extension of the PhD students' contracts at Inria and overlooks the overall work of PhD students. The CSD also evaluates candidates for the Inria PhD scholarships (CORDI-S).
- 2019 Member of the jury "soutenance de stage" of the UBINET master of the University of Nice Sophia Antipolis.
- 2018 Member of selection committee of Inria internship program "Masters transverses".

3.7 Scientific Exeprtise

- 2020 Member of the evaluation committee for the projects "Initiatives de Recherche Stratégiques (IRS)" of the University Grenoble Alpes
- 2019 Member of the hiring committee for an Inria chair position "Enseignement et recherche dans le domaine de la cybersécurité" of École Supélec

3.8 PhD committees

I have been a member of the PhD jury of the following PhD defense committees:

- 2020 Tobias Urban, Institute for Internet Security, Ruhr University Bochum, Germany
- 2019 Antoine Vastel, University of Lille & Inria Lille, France
- 2018 Daniel Schoepe, Chalmers University of Technology, Sweden
- 2018 Oleksii Starov, Stony Brook University, USA
- 2017 Pierre Laperdrix, INSA Rennes & Inria Rennes, France
- 2016 Willem De Groef, KULeuven, Belgium

4 Research Projects

4.1 Industrial Collaborative Projects

PIA ANSWER The ANSWER project, "*Advanced aNd Secured Web Experience and seaRch*" (Jan 2018 - Dec 2021) is funded by PIA program. The aim of the ANSWER project is to develop the new version of the <http://www.qwant.com> search engine by introducing radical innovations in terms of search criteria as well as indexed content and users' privacy. The partners of this project include QWANT and Inria teams Wimmics, Privatics, Indes, Neo and Diana.

4.2 National projects

ANR PrivaWEB The PrivaWeb project, "*Privacy Protection and ePrivacy Compliance for Web Users*" (Dec 2018 - Nov 2022) is funded by the ANR JCJC personal funding initiative. PrivaWEB aims at developing new methods for detection of new Web tracking technologies and new tools to integrate in existing Web applications that seamlessly protect privacy of users. PrivaWEB is a personal ANR JCJC project.

ANR AJACS The AJACS project, “*Analyses of JavaScript Applications: Certification Security*” (Dec 2014 - May 2018) is funded by the ANR. The goal of the AJACS project is to provide strong security and privacy guarantees on the client side for web application scripts. I was involved in the tasks WP2 Certified Analyses and WP3 Security of JavaScript Applications. The partners of this project include Inria teams Celtique (coordinator), Toccata, Indes and Prosecco.

4.3 Inria Internal Funding

AEx DATA4US AEx DATA4US project, “*Personal DATA Transparency for web USers*” (Feb 2020 - Jan 2022) is a joint project with Cedric Lauradoux (PRIVATICS) granted by Inria exploratory action program. DATA4US tackles these interdisciplinary challenges by establishing collaborations with researchers in Law. DATA4US will propose a new architecture for exercising access rights that will explain the users whether their data has been legally collected and eventually help contact Data Protection Authorities for further investigations.

ADT FingerKit In the context of the Inria ADT call, I am involved in a *FingerKit: a Cloud Platform to Study Browser Fingerprints at Large* (2018 - 2020), lead by Walter Rudametkin from the Spirals project-team, Inria Lille. The funding for a two year engineering position was obtained and an engineer is hired in Spirals project-team.

Actions Marquantes The joint project with Arnaud Legout from Inria Diana team “*User discrimination on the Web: measurement, causation and prevention*” (Dec 2016 - Nov 2017) is funded by Inria Sophia Antipolis Actions Marquantes initiative. The goal of this project is to detect when users get discriminated on the Web, what are the technologies used to discriminate users and how we can prevent it without breaking the functionality and sometimes useful personalisation within Web applications.

5 Teaching

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| 2018 - 2021 | Lecturer for “ Privacy on the Internet ”, SKEMA Business school, France
Program: Master in Digital Business
Level M2, 15h ETD per year |
| 2018 - 2021 | Lecturer for “ Privacy, Security and Ethical aspects of Data ”, Université Côte d’Azur, France
Program: Master in Data Science
Level M1, 18h ETD per year |
| 2018 - 2019 | Lecturer for “ Web Privacy ”, University of Trento, Italy
Level PhD, 30h ETD per year |
| 2015 - 2018 | Lecturer for “ Développements d’Applications Réticulaires ”, University Pierre et Marie Curie - UPMC, France
Level M2, 15h ETD per year |
| 2012 - 2013 | Teaching Assistant for “ Sécurité des systèmes d’information ”, University of Rennes 1, France
Level M2, 19h ETD |
| 2012 - 2013 | Teaching Assistant for “ Compilation ”, INSA Rennes, France
Level M1, 20h ETD |

5.1 E-learning

In 2018, together with Cédric Lauradoux and Vincent Roca (Inria PRIVATICS team), we have designed a Massive Open Online Course (MOOC) entitled “*Protection de la vie privée dans le monde numérique*”. From 2018 till May 2020, the MOOC has been open for 4 sessions and attracted in total **over 43,000 French-speaking participants** from all over the world.

6 Publications

6.1 International peer-reviewed journals

1. C. Santos, N. Bielova, and C. Matte. Are cookie banners indeed compliant with the law? deciphering EU legal requirements on consent and technical means to verify compliance of cookie banners. *Technology and Regulation*, pages 91–135, 2020. <https://doi.org/10.26116/techreg.2020.009>
2. P. Laperdrix, N. **Bielova**, B. Baudry, and G. Avoine. Browser fingerprinting: A survey. *ACM Transactions on the Web (TWEB)*, 14(2):8:1–8:33, 2020. <https://dl.acm.org/doi/10.1145/3386040>
3. I. Fouad, N. **Bielova**, A. Legout, and N. Sarafijanovic-Djukic. Missed by filter lists: Detecting unknown third-party trackers with invisible pixels. *Proceedings on Privacy Enhancing Technologies (PoPETs)*, 2020, 2020. <https://doi.org/10.2478/popets-2020-0038>
4. N. **Bielova**. Survey on javascript security policies and their enforcement mechanisms in a web browser. *Special Issue on Automated Specification and Verification of Web Systems of Journal of Logic and Algebraic Programming (JLAP)*, 82(8):243 – 262, 2013. <https://doi.org/10.1016/j.jlap.2013.05.001>
5. N. **Bielova** and F. Massacci. Iterative enforcement by suppression: Towards practical enforcement theories. *Journal of Computer Security (JCS)*, 20(1):51 – 79, 2012. Paid access: <https://content.iospress.com/articles/journal-of-computer-security/jcs431>, open access (author version): <http://www-sop.inria.fr/members/Nataliia.Bielova/papers/BIEL-MASS-10-JCS.pdf>
6. N. **Bielova** and F. Massacci. Do you really mean what you actually enforced? *International Journal of Information Security (IJIS)*, pages 239–254, 2011. <http://dx.doi.org/10.1007/s10207-011-0137-2>
7. N. **Bielova**, N. Dragoni, F. Massacci, K. Naliuka, and I. Siahaan. Matching in security-by-contract for mobile code. *Journal of Logic and Algebraic Programming (JLAP)*, 78. <http://dx.doi.org/10.1016/j.jlap.2009.02.013>

6.2 Peer-reviewed international conferences and workshops

1. C. Gray, C. Santos, N. **Bielova**, M. Toth, and D. Clifford. Dark patterns and the legal requirements of consent banners: An interaction criticism perspective. In *ACM CHI Conference on Human Factors in Computing Systems (ACM CHI 2021)*
2. C. Matte, N. **Bielova**, and C. Santos. Do cookie banners respect my choice? measuring legal compliance of banners from iab europe’s transparency and consent framework. In *IEEE Symposium on Security and Privacy (IEEE S&P 2020)*, 2020
3. C. Matte, C. Santos, and N. **Bielova**. Purposes in IAB Europe’s TCF: which legal basis and how are they used by advertisers? In *Annual Privacy Forum, APF*, Lecture Notes in Computer Science
4. I. Fouad, C. Santos, F. Al Kassar, N. **Bielova**, and S. Calzavara. On Compliance of Cookie Purposes with the Purpose Specification Principle. In *2020 International Workshop on Privacy Engineering, IWPE*, 2020

5. C. Boniface, I. Fouad, N. **Bielova**, C. Lauradoux, and C. Santos. Security analysis of subject access request procedures - how to authenticate data subjects safely when they request for their data. In *7th Annual Privacy Forum, APF*, volume 11498 of *Lecture Notes in Computer Science*, pages 182–209. Springer, 2019
6. G. G. Gulyás, D. F. Somé, N. **Bielova**, and C. Castelluccia. To extend or not to extend: On the uniqueness of browser extensions and web logins. In *Proceedings of the 2018 Workshop on Privacy in the Electronic Society, WPES@ACM CCS 2018*, pages 14–27. ACM, 2018
7. M. Ngo, N. **Bielova**, C. Flanagan, T. Rezk, A. Russo, and T. Schmitz. A better facet of dynamic information flow control. In *Web Programming, Design, Analysis, And Implementation (WPDAI 2018) alternate track of The Web Conference (WWW 2018)*, pages 731–739. ACM, 2018
8. D. F. Somé, N. **Bielova**, and T. Rezk. Control what you include! server-side protection against third party web tracking. In *International Symposium on Engineering Secure Software and Systems (ESSoS)*, volume 10379 of *Lecture Notes in Computer Science*, pages 115–132. Springer, 2017
9. D. F. Somé, N. **Bielova**, and T. Rezk. On the content security policy violations due to the same-origin policy. In *Proceedings of the 26th International Conference on World Wide Web, WWW 2017*, pages 877–886. ACM, 2017
10. N. **Bielova** and T. Rezk. Spot the difference: Secure multi-execution and multiple facets. In *21st European Symposium on Research in Computer Security, ESORICS*, volume 9878 of *Lecture Notes in Computer Science*, pages 501–519. Springer, 2016
11. F. Besson, N. **Bielova**, and T. P. Jensen. Hybrid monitoring of attacker knowledge. In *IEEE 29th Computer Security Foundations Symposium, CSF*, pages 225–238. IEEE Computer Society, 2016
12. N. **Bielova** and T. Rezk. A taxonomy of information flow monitors. In *Principles of Security and Trust - 5th International Conference, POST*, volume 9635 of *Lecture Notes in Computer Science*, pages 46–67. Springer, 2016
13. N. **Bielova**. Short paper: Dynamic leakage: A need for a new quantitative information flow measure. In *Proceedings of the 2016 ACM Workshop on Programming Languages and Analysis for Security, PLAS@CCS 2016*, pages 83–88. ACM, 2016
14. F. Besson, N. **Bielova**, and T. Jensen. Browser Randomisation against Fingerprinting: A Quantitative Information Flow Approach. In *Nordic Conference on Secure IT Systems (NordSec 2014)*, pages 181–196, 2014
15. T. Vissers, N. Nikiforakis, N. **Bielova**, and W. Joosen. Crying Wolf? On the Price Discrimination of Online Airline Tickets. In *7th Workshop on Hot Topics in Privacy Enhancing Technologies (HotPETs 2014)*, 2014
16. F. Besson, N. **Bielova**, and T. Jensen. Hybrid information flow monitoring against web tracking. In *IEEE Computer Security Foundations Symposium (CSF 2013)*, pages 240–254. IEEE, 2013
17. N. **Bielova**, D. Devriese, F. Massacci, and F. Piessens. Reactive non-interference for a browser model. In *International Conference on Network and System Security (NSS 2011)*, pages 97–104. IEEE, 2011
18. N. **Bielova** and F. Massacci. Computer-aided generation of enforcement mechanisms for error-tolerant policies. pages 89–96, 2011
19. N. **Bielova** and F. Massacci. Predictability of enforcement. volume 6542, pages 73–86, 2011
20. N. **Bielova**, F. Massacci, and A. Micheletti. Towards practical enforcement theories. volume 5838, pages 239–254, 2009
21. N. **Bielova** and F. Massacci. Do you really mean what you actually enforced? volume 5491, pages 287–301, 2008

22. N. **Bielova**, M. Dalla Torre, N. Dragoni, and I. Siahaan. Matching policies with security claims of mobile applications. pages 128–135, 2008
23. N. **Bielova** and I. Siahaan. Testing decision procedures for security-by-contract. 2008

6.3 Contribution to the Data Protection Authorities and EDPB

1. M. Toth, N. **Bielova**, C. Santos, V. Roca, and C. Matte. Contribution to the public consultation on the CNIL's draft recommendation on "cookies and other trackers", 2020. Research report, <https://hal.inria.fr/hal-02490531>
2. N. **Bielova** and C. Santos. Feedback to EDPB regarding Guidelines 07/2020 on the concepts of controller and processor in the GDPR, 2020. Research report, <http://www-sop.inria.fr/members/Nataliia.Bielova/opinions/EDPB-contribution-controllers-processors.pdf>
3. N. **Bielova** and C. Santos. Feedback to the Guidelines on the use of cookies and other tracking tools of the Italian Data Protection Authority, 2020. Research report, <https://hal.inria.fr/hal-03079482>

6.4 Research reports and publications under review

1. A. Boutet, N. **Bielova**, C. Castelluccia, M. Cunche, C. Lauradoux, D. Le Métayer, and V. Roca. Proximity Tracing Approaches - Comparative Impact Analysis. Research report, INRIA Grenoble - Rhone-Alpes, Apr. 2020. <https://hal.inria.fr/hal-02570676>
2. C. Castelluccia, N. **Bielova**, A. Boutet, M. Cunche, C. Lauradoux, D. Le Métayer, and V. Roca. DESIRE: A Third Way for a European Exposure Notification System Leveraging the best of centralized and decentralized systems. <https://hal.inria.fr/hal-02570382>, 2020
3. C. Castelluccia, N. **Bielova**, A. Boutet, M. Cunche, C. Lauradoux, D. Le Métayer, and V. Roca. ROBERT: ROBust and privacy-presERving proximity Tracing. <https://hal.inria.fr/hal-02611265>, May 2020
4. N. **Bielova**, N. Laoutaris, A. Narayanan, and N. Nikiforakis. Online privacy and web transparency (Dagstuhl Seminar 17162). *Dagstuhl Reports*, 7(4):83–106, 2017

7 Dissemination of scientific knowledge

I have been an invited speaker and invited lecturer at international conferences, workshops and summer schools since I obtained my PhD in 2011. In this section I also present scientific mediation and popularization activities I have carried out after my PhD.

7.1 Invited talks

- 2020 Invited talk at Cyber Security Coalition, “Are cookie banners indeed compliant with the law?” <https://www.cybersecuritycoalition.be/webinars#gdpr>
- 2020 Selected talk "I see a cookie banner – is it even legal?" with Cristiana Santos at HotPETs 2020, virtual Montreal, Canada
- 2019 Invited talk on Detection of Web tracking missed by browser extensions at the Mozilla Security Summit, Vienna, Austria <https://events.mozilla.org/mozillasecurityresearchsummit2019>
- 2019 Keynote at the the Francophone workshop on Privacy Protection “l’Atelier sur la Protection de la Vie Privée” (APVP’18) in Cap-Hornu, France <https://project.inria.fr/apvp2019/>.
- 2018 Keynote at the Journée scientifique RISE/DS4H of Université Côte d’Azur, France <http://univ-cotedazur.fr/contenus-riches/agenda/fr/journee-scientifique-vie-privée-numérique>
- 2018 Invited talk at the "Transparence et opacité des systèmes d’information" workshop in Lyon, France <http://transparence.conf.citi-lab.fr/>.
- 2018 Invited talk at the Journées Scientifiques Inria, Bordeaux, France. <https://journées-scientifiques2018.inria.fr/francais-programme/>.
- 2017 Invited talk at the **EU Parliament** meeting dedicated to the analysis of the new EU ePrivacy Regulation in Brussels, Belgium. I presented our work on web tracking via browser extension fingerprinting [11]. <https://www.inria.fr/fr/vie-privée-internet-parlement-europeen>
- 2017 Invited talk at the SySoSec seminar, Inria Rennes. http://seminaire-dga.gforge.inria.fr/archives_fr.html#16-17
- 2017 Invited talk at the Russian-French Workshop in Big Data and Applications, Higher School of Economics, Moscow, Russia <https://bi.hse.ru/en/rfw/2017>
- 2016 Invited talk at the CAPPRIS Inria Collaborative Action meeting, Sophia Antipolis, France. <https://cappris.inria.fr/>
- 2013 Invited speaker at the panel of International Conference on Runtime Verification, Rennes, France. <http://rv2013.gforge.inria.fr>
- 2013 Invited talk at Dagstuhl Seminar: Verifiably Secure Process-Aware Information Systems, Wadern, Germany. <https://www.dagstuhl.de/en/program/calendar/semhp/?semnr=13341>
- 2012 Invited talk at Dagstuhl Seminar: Web Application Security, Wadern, Germany. <https://www.dagstuhl.de/en/program/calendar/semhp/?semnr=12401>
- 2012 Invited talk at Security and Formal Methods seminar, Inria Rennes, France. <http://videos.rennes.inria.fr/interne/Seminaire-Celtique/Natalia-Bielova/index.html>

7.2 Invited lectures

- 2019 Invited lecture on GDPR consent mechanisms in Web applications at the Summer School on Cybersecurity, Université Côte d’Azur, France
- 2018 Tutorial on Web Tracking Technologies at TheWeb’18 International conference, Lyon, France
- 2018 Invited lecture on Web tracking technologies and protection mechanisms at Carnegie Mellon University, USA
- 2018 Invited lecture on Web Privacy at the Summer School ResCom, France
- 2018 Invited lecture on Web tracking technologies at SKEMA Business school, France
- 2018 Invited lecture on Web Tracking, Privacy and Transparency Measurements at the Summer School on Cybersecurity, Université Côte d’Azur, France
- 2017 Invited lecture on Web tracking technologies and protection mechanisms at Carnegie Mellon University, USA
- 2017 Invited lecture on Web Tracking Technologies at Igor Sikorsky Kiev Polytechnic Institute, Kiev, Ukraine

7.3 Impact on society

- 2019 “None Of Your Business” (NOYB) NGO issued a **complaint to the French Data Protection Authority (CNIL)** based on the results of our work on the potential violations of GDPR and ePrivacy directive in cookie banners [13]. NOYB used our open source “Cookie Glasses” browser extension that brings transparency to the banners that rely on IAB Europe TCF. The complaint addressed three popular French websites: CDiscount, AlloCine and VanityFair. <https://noyb.eu/en/say-no-cookies-yet-see-your-privacy-crumble>
- 2020 I co-author **ROBERT protocol** [7] implemented in the **StopCovid** mobile contact tracing application deployed in France by the French Government in the context of the Covid-19 pandemic and intended to warn of possible contamination. <https://fr.wikipedia.org/wiki/StopCovid>

7.4 Mentorship

- 2020 Presentation to female MSc students of UBINET on career in research, Nice, France.
- 2019 Presentation to BSc and MSc students during the ACM-W Ukrainian Chapter celebration, Kiev, Ukraine. <https://women.acm.org/2019-2020-celebrations/>

7.5 Popularization of scientific knowledge

- 2019 Intervention with high school students during “Semaine De La Science” with Cinesciences at the cinémathèque of Nice, France.
- 2019 I am a contributor of the Inria white book on CyberSecurity: I provided an overview of the research in the area of Web Tracking technologies carried out by Inria teams. <https://hal.inria.fr/hal-01993308>
- 2017 I have contributed the article by LINC of the CNIL on the usage of browser extensions for Web tracking, that highlights our research [11], <https://linc.cnil.fr/fr/inria-research-project-tries-uncover-how-websites-can-dig-your-preferences-online>
- 2017 Presentation “Technologies et Protection de votre vie privée sur Internet” at Cafe-techno organised by Inria, <http://univ-cotedazur.fr/contenus-riches/agenda/fr/cafe-techno-technologies-et-protection-de-votre-vie-privee-sur-internet-par-nataliia-b>
- 2016 Leading author of the article for general public in ERCIM News: “ *Using JavaScript Monitoring to Prevent Device Fingerprinting*”, <https://ercim-news.ercim.eu/en106/special/using-javascript-monitoring-to-prevent-device-fingerprinting>
- 2013 Presentation “Web Tracking technologies and privacy protection on the Web” at Conf’Lunch, Inria Rennes, France. <http://videos.rennes.inria.fr/confLunch/NataliiaBielova/indexConfLunchBielova.html#expose>
- 2013 Co-author of the article for general public “L’équipe Celtique et la protection de la vie privée sur le web” at Ouest Inria, that presented our approach for quantifying Web browser fingerprinting, <https://iww.inria.fr/ouest-inria/protection-de-la-vie-privee-sur-le-web/>

7.6 Interviews by the media

- 2020 Interview in MediaPart: *“Donnees personnelles: les cookies resistant encore”*. I presented our work on verifying legal compliance of cookie banners with GDPR and ePrivacy [13], <https://www.mediapart.fr/journal/france/190220/donnees-personnelles-les-cookies-resistant-encore>.
- 2019 Interview in Usine Digitale: *“Fuite massive de données à AccorHotels : ce que risque l’entreprise”*. I explained the problem of data breaches and massive data collection, data minimisation and purpose limitation principles of the GDPR, <https://www.usine-digitale.fr/article/fuite-massive-de-donnees-a-accorhotels-que-risque-l-entreprise-N906279>
- 2019 Interview in L’OBS: *“Entre réalité augmentée et reconnaissance faciale, on a parcouru le supermarché de demain”*, I explain the meaning of valid consent under GDPR, problem of consent and third-party data usage and data minimisation principle: *“Si vous me ciblez par rapport à mon âge, vous n’avez pas besoin de mon visage !”* <https://www.nouvelobs.com/economie/20191129.OBS21725/entre-realite-augmentee-et-reconnaissance-faciale-on-a-parcoursu-le-supermarche-de-demain.html>
- 2018 Interview in NiceMatin: *“Comment mieux protéger sa vie privée en naviguant sur internet? Les conseils d’une spécialiste”*. I explained how Web browser cookies and other tracking technologies work and demonstrated our research on how users can be tracked by the fingerprint of their browser extensions [11]. <https://www.nicematin.com/faits-de-societe/comment-mieux-protoger-sa-vie-privee-en-naviguant-sur-internet-les-conseils-dune-specialiste/>
- 2017 Interview in DCloudNews: *“Les mouchards du web épinglés par une jeune chercheuse de l’INRIA”*. I explained how Internet users can be tracked on the Web thanks to the browser extensions they install [11] and how the new ePrivacy Regulation could protect the users. <http://www.dcloudnews.eu/les-mouchards-du-web-epingles-par-une-jeune-chercheuse-de-linria/>.
- 2015 Interview in “Science et vie” magazine: *“Achat sur Internet – Des prix à la tête du client!”*, No. 1177. I was involved in this article thanks to my knowledge on Web tracking techniques and to my research on Price Discrimination of Online Airline Tickets [37].

