

Nataliia Bielova

(version of April 19, 2018)

Secure Diffuse Programming group (INDES)

Inria Sophia Antipolis

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Nationality: Ukrainian

Year of birth: 1985

Married, 1 child born in 2014



Education

2011 **PhD** in Computer Science, University of Trento, Italy
Date awarded: November 28, 2011

2007 **M.Sc. with honors** in Computer Science, Dnipropetrovsk National University, Ukraine
Date awarded: June 29, 2007
GPA 99/100

Employment

2013 - Present Research scientist (**CR**), INRIA Sophia Antipolis, France
2017 - 2020 Visiting Professor, University of Trento, Italy
2012 - 2013 Post-doc, INRIA Rennes Bretagne Atlantique, France
2010 Visiting Scholar, Katholieke Universiteit Leuven, Belgium
2009 Visiting Scholar, Carnegie Mellon University, Pittsburgh, USA

Professional activities (a selection)

2018 **PC Chair**, Atelier sur la Protection de la Vie Privée (French workshop on Privacy Protection)
PC Member, International Conference on Principles of Security and Trust (POST)
PC Member, Symposium on Electronic Crime Research (eCrime)
PC Member, International Workshop on Programming Technology for the Future Web (ProWeb)
PC Member, IEEE Secure Development Conference (IEEE SecDev)

2017 **Organizer of the Dagstuhl Seminar** on Online Privacy and Web Transparency
PC Chair, ACM Workshop on Programming Languages and Analysis for Security (PLAS)
Award Committee Member, Data Transparency Lab (DTL)
PC Member, IEEE Computer Security Foundations Symposium (CSF)
PC Member, IEEE Secure Development Conference (IEEE SecDev)
PC Member, USENIX Security Poster session
Invited Journal Reviewer, ACM TOIT and ACM TOPS
PhD Committee, Pierre Laperdrix, Inria Rennes

Research group

PhD students

- Dolière Francis Some on Web application security and Web tracking (2015-2018, co-advisor: Tamara Rezk)
- Imane Fouad on measurement of cookie syncing (2018-, co-advisor: Arnaud Legout)

Master students

- Leila Kuntar on analysis of pixel tracking (2016)
- Dolière Francis Some on measurement of JavaScript constructs in top 10 000 websites (2015)
- Patricio Palladino on analysis of stability of web browser fingerprinting over time (2013)

Projects and funding

2018 - 2021	Member of ANR project CISC: Certification of IoT Secure Compilation
2016 - 2017	Co-PI for a project in <i>Laboratoire d'Excellence UCN@Sophia</i> – French Government
2014 - 2018	Member of ANR project AJACS: Analyses of JavaScript Applications: Certification & Security
2012 - 2013	Personal postdoctoral fellowship in <i>Laboratoire d'Excellence SecCloud</i> – French Government
2007 - 2011	Personal grant for PhD studentship <i>with Best Score among applicants</i> – Italian Government

Invited talks and seminars (a selection)

- Tutorial at TheWeb Conference (WWW) on “*Web Tracking technologies and protection mechanisms*”, April 2018.
- Invited talk at the Transparency of information systems workshop, April 2018.
- Invited talk at the European Parliament on “*Fingerprinting through Browser Extensions*”, June 2017.
- Invited talk at SySoSec seminar (Inria Rennes) on “*A Taxonomy of Information Flow Monitors*”, May 2017.
- Invited talk at DGCCRF on “*Price discrimination of Online Airline Tickets*”, March 2017.
- Panel at Runtime Verification Conference (RV'13) on “*Hybrid Information Flow Monitoring Against Web Tracking: Future of Runtime Monitoring*”. Rennes, 2013.
- Dagstuhl seminar on “*Verifiably Secure Process-Aware Information Systems*”, Dagstuhl, August 2013.
- ENS Bretagne invited lecture on “*Program analysis against Web Tracking*”. Bruz, 2013.
- Dagstuhl seminar on “*Web Application Security*”, Dagstuhl, October 2012.

Recent collaborations

2017	Cormac Flanagan, Alejandro Russo – Secure multi-execution and multiple facets, University of California Santa Cruz (USA) and Chalmers University of Technology (Sweden)
2016 - 2017	Claude Castelluccia, Gabor Gulyas – Browser extensions and login leak experiment, Privatics team at INRIA Grenoble (France)
2014	Nick Nikiforakis, Thomas Vissers, Wouter Joosen – On the Price Discrimination of Online Airline Tickets, Katholieke Universiteit Leuven (Belgium) and Stony Brook University (USA)
2013 - 2016	Frederic Besson, Thomas Jensen – Hybrid Information Flow monitoring against Web Tracking, INRIA Rennes (France)

Teaching experience

2017 – 2018	Invited Lecturer – Web tracking technologies, University Pierre et Marie Curie, Paris, France 6 hours of lecture + 6 hours of practice, 18 students
2016 – 2017	Invited Lecturer – Web tracking technologies, University Pierre et Marie Curie, Paris, France 6 hours of lecture + 6 hours of practice, 20 students
2015 – 2016	Invited Lecturer – Web application development, University Pierre et Marie Curie, Paris, France 6 hours of lecture + 6 hours of practice, 21 students
2012 - 2013	Teaching Assistant – New Information Technologies, University of Rennes 1, France 19 hours of practice, 20 students
2012 - 2013	Teaching Assistant – Compilation, INSA Rennes, France 30 hours of practice, 26 students
2011 - 2012	Invited Lecturer – Computer Security, University of Trento, Italy 4 hours of lectures, 5 students
2011 - 2012	Lecturer – Formal languages and Compilers, University of Trento, Italy 32 hours of lectures + practice, 11 students

Career breaks

7 March 2014 – 5 May 2014	Leave due to pregnancy complications
6 May 2014 – 20 October 2014	Standard maternity leave