

Nataliia Bielova

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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.S.** in Computer Science, Dnipropetrovsk National University, Ukraine
Date awarded: June 29, 2007
With Honors (GPA 99/100)

Employment

- 2013 - Present Research scientist ([CR1](#)), INRIA Sophia Antipolis, France
- 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 Member, International Conference on Principles of Security and Trust (POST)
- 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, IEEE Workshop on Legal and Technical Issues in Cloud Computing and Internet of Things
PC Member, USENIX Security Poster session
Invited Journal Reviewer, ACM TOIT
PhD Committee, Pierre Laperdrix, Inria Rennes
- 2016 **PhD Committee**, Willem de Groef, Katholieke Universiteit Leuven, Belgium
Invited Journal Reviewer, ACM TISSEC, IEEE TDSC, IJIS, JLAMP
External Reviewer, ACM CCS, ISOC NDSS'16, USENIX Security, POST

Research group

Postdocs

- Natasa Sarafijanovic-Djukic on measurement of Web tracking (2016 – present, with Arnaud Legout)
- Minh Ngo on Information Flow control (2016 – present, with Tamara Rezk)

PhD students

- Dolière Francis Some on Web application security and Web tracking (2015 – present, co-advisor: Tamara Rezk)

Master students

- Imane Fouad on measurement of cookie syncing (2017)
- 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)

Teaching experience

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

Projects and funding

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)

- Invited talk at CAPPRIS (INRIA Collaborative Action on the Protection of Privacy Rights in the Information Society) on “*Price discrimination of Online Airline Tickets*”. Sophia Antipolis, April 2016.
- Invited talk on “*Browser Randomisation against Fingerprinting: a Quantitative Information Flow Approach*” at Quantitative Information Flow day, Paris, 2014
- Panel at Runtime Verification Conference 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)

Career breaks

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