

Filipe Beato · PhD

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Education

- Apr 11 – May 15 **PhD**, Engineering Science, KU Leuven - ESAT/COSIC, Leuven (Belgium).
Thesis: Private information sharing in online communities. (Promotor: Prof. Bart Preneel)
* Visitor Researcher at Prof. Mauro Conti Security Group, University of Padua, Italy (May 2013, 2014, and 2015).
* Visitor Researcher at Prof. Gene Tsudik's Security Group, UC Irvine, CA, US (May – Sept 2012).
- Sep 07 – Sep 08 **MSc**, Advanced Computing & Security (Computer Science), University of Bristol, Bristol (UK).
Thesis: Cryptographic Digital Signatures (Supervisor: Prof. Nigel Smart)
- Sep 00 – Jun 05 **MEng**, Electrical and Computer Engineering, Universidade Nova de Lisboa - FCT, Lisbon (Portugal).

Experience

- May 15 – Present **Research Associate**, KU Leuven - ESAT/COSIC, Leuven (Belgium).
- Research and development of privacy technologies, cloud security, and authentication methods.
- Responsible for management, design, and development of a secure architecture for SaaS-oriented project for the iMinds D-Base project.
- Dec 08 – May 15 **Research Assistant**, KU Leuven - ESAT/COSIC, Leuven (Belgium).
- Research and development of cryptographic protocols for multi-recipients and cloud security.
- Threat analyses and modeling of web security, privacy, and anonymity threats.
- Implementation of cryptographic standards and privacy-enhancing technologies.
- Collaboration in several International/National Projects:
· NIST BTPMetrics (2012): develop generic metrics for the analysis of biometric template protection protocols and standards.
· FP7-EU-Primelife (2009-2011): research on security and privacy issues on social media, and trusted wallets. Development of privacy-enhancing tools based on cryptographic mechanism, such as broadcast encryption, and anonymous credentials.
- Mentoring MSc students thesis projects on varying Security topics.
- Jul 07 – Sep 07 **Research Intern**, HP Labs, Palo Alto (US).
- Research and development of a secure C/C++ module for enterprise control over private data.
- Integration of a server-side module using and integration with HP enterprise solutions.
- Mar 07 – Jul 07 **Software Engineer**, Critical Software, Coimbra (Portugal).
- Responsible for design, development and integration of J2EE applications for Vodafone Portugal, and Agusta Westland UK defense projects.
- Apr 06 – Feb 07 **Research Intern**, HP Labs, Bristol (UK).
- Research collaboration within FP7-EU-Prime project and HP international project focusing on Identity Management, scalability, and privacy issues.
- Design and development of a Java multi-thread system dealing with policy-driven, lifecycle management of personal data stored in enterprise data repositories.
- Oct 05 – Mar 06 **Junior IT Consultant**, CGI, Lisbon (Portugal).
- Technical analyst responsible for the design and development of C# applications for various Unified Front End Projects at Vodafone PT. Build Web Services and Web Interfaces on Microsoft .Net Framework.

Skills

- Cyber Security - Cryptography, Privacy, PKI, Access Control, Cloud Security, Security Analysis, and Security Standards.
Networking - Knowledge of TCP/IP, HTTP/S, OAuth, OpenID, DNS, SMTP, FTP, tunneling.
Programming - Proficiency in Java, Python, JavaScript, and $\text{\LaTeX} 2_{\epsilon}$.
- Good Knowledge of C/C++, Unix, HTML, and XML.
- Familiarity with SQL, Perl, PHP, and Bash script.
Languages - Native Portuguese, Fluent English and French, and conversational Spanish.

Extra Information

- Services - Program Committee Member: SocialSec 2015, PST 2015, ISC 2014.
- Journal Reviewer: Transactions on Information Forensics & Security 2015, Computer Communications 2015, Transactions on Data Privacy 2014, Telecommunication Systems 2014, Multimedia Systems 2013.
 - External reviewer: Usenix Sec 2014, ACM TISSEC 2014, WPES 2014, IEEE PST 2014, PETs 2014, ESORICS 2013, SESOC 2013, CMS 2013, CCSW 2012, ISC 2011, CANS 2011, and ISO Documents.
- Courses
- iMinds & Imperial College of London Entrepreneurship Course, Nov 2012, Brussels (Belgium)
 - ECRYPT II Applied Cryptographic Protocols Summer School, Oct 2010, Mykonos (Greece).
 - SecAppDev course, Feb 2010 and 2011, Leuven (Belgium).
 - International Computer Security & Cryptography Course, Jul 2009 and 2013, Leuven (Belgium).
 - Interdisciplinary Privacy Course, Jun 2010 and 2011, Leuven (Belgium).
 - CCNA Course, Skillsolve, Nov 2006, Oxfordshire (UK).
- Activities
- Worked as a Volunteer during EuroCup 2004 (Portugal).
 - Taekwondo kids instructor during 2005-2006, Lisbon (Portugal).
- Hobbies
- Capoeira, Climbing, Surfing, Art, Cooking, and Web programming.

Honours and Awards

- Awarded the 4 year PhD grant from FCT (Portugal), ref: SFRH/BD/70311/2010, 2011.
- Awarded Student Travel Grant for PETs 2011, 2014 and 2015, and IEEE CNS 2014.
- Awarded a place at the program INOV-Contacto from AICEP, Portuguese Government, 2006.

Selected Publications

- Conferences
- F. Beato, E. De Cristofaro, and K. Rasmussen, "Undetectable Communication: The Online Social Networks Case", *In IEEE Conference on Privacy, Security and Trust*, IEEE, 2014.
 - F. Borges, L. A. Martucci, F. Beato, and M. Muhlhauser, "Secure and Privacy-Friendly Public Key Generation and Certification," *In Proceedings of the 13th IEEE TrustCom 2014*, IEEE Computer Society, 8 pages, 2014.
 - F. Beato, I. Ion, S. Capkun, M. Langheinrich, and B. Preneel, "For Some Eyes Only: Protecting Online Information Sharing", *In ACM Conference on Data and Application Security and Privacy*, ACM, 2013.
 - K. Simoens, B. Yang, X. Zhou, F. Beato, C. Busch, E. Newton, and B. Preneel, "Criteria Towards Metrics for Benchmarking Template Protection Algorithms", *in 5th IAPR International Conference on Biometrics*, IEEE, 2012.
 - F. Beato, M. Kohlweiss, and K. Wouters, "Scramble! your social network data", *In 11th Privacy Enhancing Technologies International Symposium*, LNCS 6794, Springer-Verlag, 2011.
- Workshops
- F. Beato, E. Balsa, and S. Gurses, "Why Can't Online Social Networks Encrypt?," *In W3C Workshop on Privacy and User-Centric Controls*, 2014.
 - F. Beato, and R. Peeters, "Collaborative Joint Content Sharing for Online Social Networks," *In IEEE International Workshop on Security and Social Networking*, IEEE, pp. 616-621, 2014.
- Book Chapters
- F. Beato, K. Borcea-Pfitzmann, R. Leenes, S. Potzsch, and B. Van den Berg, "Privacy in Social Software," *In Privacy and identity management for life*, J. Camenisch, S. Fischer-Huebner, and K. Rannenberg (eds.), Springer-Verlag, pp. 33-60, 2011.

References

- Available on request.