

LORETTA ILARIA MANCINI

PERSONAL INFORMATION

Address	13 Oxford Street Stirchley Birmingham, UK B30 2LH	Mobile	+44 7939320806
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Gender	Female	Nationality	Italian
Date of birth	24/06/1978		

I am a PhD student at the School of Computer Science of the University of Birmingham. I work under the supervision of Dr. Eike Ritter and Dr. Myrto Arapinis. I work on security protocol verification in pervasive systems within the EPSRC VPS (Verification of Pervasive Systems) project. I am a member of the CryptoForma network for formal methods and cryptography. My research mainly focuses on the verification of privacy related properties more specifically anonymity and unlinkability. Although the development of formal methods for the verification of security protocols is the main goal of my research, I draw inspiration and motivation from real world case studies. In particular, mobile telephony protocols proved to be interesting and challenging from the privacy verification point of view and for the development of the theoretical tools needed for the verification of unlinkability and anonymity in stateful systems.

PUBLICATIONS:

Myrto Arapinis, Loretta Mancini, Eike Ritter, Mark Ryan, Nico Golde, Kevin Redon, Ravishankar Borgaonkar. *New privacy issues in mobile telephony: fix and verification*. Proceedings of the 19th ACM Conference on Computer and Communications Security. CCS 2012. <http://markryan.eu/research/mobile/UMTS>

Myrto Arapinis, Loretta Mancini, Eike Ritter, Mark Ryan. *Formal Analysis of UMTS Privacy*. Eprint.

WORKSHOPS:

Myrto Arapinis, Loretta Mancini, Eike Ritter, Mark Ryan. *Pseudonyms in mobile telephony systems: good principles but weak implementations*. HotSpot 2013. <http://markryan.eu/research/mobile/tmsi-reallocation>

TEACHING:

2010/2011 **First Year Workshop Small Group Tutor.** University of Birmingham, School of Computer Science. Small group lecturing and face to face marking of weekly assignments.

EDUCATION:

2010/now **PhD Computer Science.** University of Birmingham, School of Computer Science.

2006/2007 **Computer Science and Software Engineering Exchange Student.** University of Birmingham, School of Computer Science

Subjects: Natural computation , Automatic verification, Machine learning, Principles of programming languages, Software engineering, Software workshop: Haskell

2006 **Undergraduate Course in Computer Science.** *Università degli Studi di Roma "La Sapienza"*

Course length: 3 years

Subjects: Computer Architecture 1, 2 & laboratory, Programming 1, 2 & laboratory, Calculus 1 & 2, Discrete Mathematics, Logic, Algorithms 1, Operating Systems 1 & 2, Operating Systems Laboratory, Data Base, Data Base Laboratory, Combinatorial Calculi, Computer Networks, Network Programming, Network Programming Laboratory, Computer Security, Languages & compilers, Physics 1, Object Oriented Programming, Visualisation Algorithms, Computability & Complexity, Algorithms 2, English, *Oral English*

Developed Projects:

- Multi-threaded, Multi-platform, mail server in C
- Checker like board games application implemented in two different Object Oriented Languages: Java and Small Talk
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- Website design using server side programming
- Relational Data Base design and implementation in SQL
- Memory allocation performance analysis application

Title of thesis: *“Formalizzazione di Proprietà di sicurezza in π -Calcolo”*
(*Formalisation of Security Properties in π -Calculus*)

Awarded Qualification: Degree in Computer Science

Final mark: 107/110

PROFESSIONAL QUALIFICATIONS:

1998/2000 **Interior Designer.** Istituto di Cultura “Pantheon” Roma. Interior design, sketching, painting, CAD, Furniture design.

1999/2000 **Multimedia Designer.** ENGIM (Ente Nazionale Giuseppini del Murialdo) Roma. Multimedia CD design using Macromedia Director, Adobe Premier, Adobe Photoshop, Microsoft Office.

SKILLS AND COMPETENCES:

Programming Languages	C, Pascal, Java, Smalltalk, Haskell, Servlet, Jsp, Javascript, Html,
Operating Systems	Linux, Windows
DBMS	MySQL
Authoring\publishing	Tex/Latex
Tool-kit	Gnuplot, Wireshark
Mobile Phones related	Osmocom-BB

LANGUAGES:

Italian: mother tongue, **English:** intermediate, **French:** basic

HOBBY AND INTERESTS:

I regularly practise Kung-Fu and I am the founder and chair of the Black Dragon Kung Fu society at the University of Birmingham. For the work undertaken in this role, in 2012 I have been awarded the Club Colours award by the University of Birmingham Sports. I enjoy dancing Argentine Tango and playing volleyball as well. I love cooking; Italian food mainly but I like to experiment ethnic recipes too; furthermore I enjoy catering meals and parties for friends and relatives. From time to time I like to keep myself busy doing origami and hand craft; playing pool; gardening.