

PAOLO MAGGI

January 2004

PERSONAL DETAILS

Nationality: Italian

Date of Birth: July 10, 1973

Status: married

Address: Via Nazario Sauro, 2 - 12051 Alba (CN) - Italy

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Email address: paolo.maggi@polito.it

EDUCATION

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|--------------------------------|---|
| July 1992 | High School Diploma in Scientific Studies (final mark 51/60), Liceo Scientifico "L. Cocito", Alba (CN), Italy. |
| October 1998 | M. S. Degree (Laurea) in Computer Science Engineering (final mark 110/110 summa cum laude), Politecnico di Torino, Torino, Italy.

Thesis entitled: "Developing a framework for data-flow analysis of Java applications". |
| June 1999 | 5th International Summer School on Distributed Computing: Advanced Distributed Algorithms, Certosa di Pontignano, Pontignano (SI), Italy. |
| March 2000 | Professional Engineer licensure from Politecnico di Torino. |
| February 2002 | Ph.D. in Computer and System Engineering from Politecnico di Torino, Computer and Control Engineering Department.

Thesis entitled: "Mobile code for geographically distributed applications". |
| January 2002-
Today | Post-Doc student at Politecnico di Torino, Computer and Control Engineering Department, working on formal methods and tools for the verification of security properties of cryptographic communication protocols. |

RESEARCH ACTIVITIES

July 1999 – February 2000	Participation on behalf of Politecnico di Torino to the EU ACTS project AC339 SCARAB (Smart Card and Agent enabled Reliable Access).
2000	Participation to the project “Formal Methods and Tools for the automatic verification of cryptographic communication protocols”, funded by Politecnico di Torino.
July 2001 - July 2003	Participation to the project COORDINATO CNR (National Research Council) “Tools and Techniques for developing distributed virtual shops”, in collaboration with IETF (Istituto di Elettronica e di Ingegneria dell'Informazione e delle Telecomunicazioni).
Dicembre 2001 - today	Collaboration with the project CERCOM (Center for Multimedia Radio Communications), work package 7 (Enabling technologies and applications), research line 4.

TEACHING ACTIVITIES

1999 – 2002	Training seminars on Java, UML, Rational Rose and Internet/Intranet technologies at several private and public companies (Comitsiel in Milano, Informatica Trentina in Trento, SDI in Roma, Consorzio EURO Qualità in Torino, Banksiel in Milano, Infogroup in Firenze, ITS in Torino, CONSIP in Roma, etc.).
A.A. 1999-2000 A.A. 2000-2001 A.A. 2001-2002 A.A. 2002-2003	Teaching assistant the following graduate courses at Politecnico di Torino: Networks and Protocols for data transfer; Protocols for Internet Applications.
A.A. 1999-2000 A.A. 2000-2001	Instructor for the undergraduate course “Information Systems” at Politecnico di Torino.
A.A. 2001-2002	Teaching assistant for the graduate course “Software Engineer” at Politecnico di Torino.
March 2003	Instructor for the course “Computer Science for Aerospace Systems” at Alenia Aeronautica SpA, Torino, Italy.
November 2003	Professor for the course “Operating Systems” for the Master on Enterprise Communication on Internet, at UN.I.VER., Vercelli, Italy.

LANGUAGES

Italian: Native language;

English: good (awarded "pass with merit" in the Preliminary English Test by University of Cambridge on March 2000).

RELEVANT SKILLS

Good knowledge of the Linux/UNIX operating system both as user and as programmer.

Good knowledge of the following programming languages: C, C++ and Java

Good knowledge of the GTK+ library and of the GNOME desktop and development environment.

Proficient user of: Mozilla, OpenOffice.org and Ximian Evolution.

Good knowledge of OMG CORBA and UML.

Others: Microsoft Windows 95/98/ME/NT/XP, Assembler 80x86, Pascal, SQL, XML, HTML, ObjectSpace Voyager (mobile agents), Java Servlet, Enterprise Java Beans, formal verification of protocols and concurrent systems with the SPIN model checker, Rational Rose, etc.

OTHER RELEVANT INFO

Member of the GNOME Foundation.

Maintainer of the *gedit* text editor (<http://gedit.sourceforge.net>).

Co-maintainer of the *gtksourceview* widget.

PUBLICATIONS

1. Luigi Ciminiera, Paolo Maggi e Riccardo Sisto, "SCARAB: Innovative Services Supporting User and Terminal Mobility", Proceedings of 21st IEEE International Conference on Distributed Computing Systems Workshops, Mesa, Arizona, USA, 16-19 April 2001, pp. 487-493.
2. Paolo Maggi e Riccardo Sisto, "Using Data Flow Analysis to Infer Type Information in Java Bytecode", Proceedings of First IEEE International Workshop on Source Code Analysis and Manipulation, Firenze, Italy, 10 November 2001, pp. 211-222
3. Xavier Hannotin, Paolo Maggi e Riccardo Sisto, "Formal Specification and Verification of Mobile Agent Data Integrity Properties: a Case Study", Proceedings of 5th IEEE International Conference on Mobile Agents, Atlanta, Georgia, USA, 2-4 December 2001, pp. 42-53

4. Paolo Maggi e Riccardo Sisto, "Using SPIN to Verify Security Properties of Cryptographic Protocols", Proceedings of 9th International SPIN Workshop on Model Checking of Software, LNCS 2318, Grenoble, France, 11-13 April 2002, pp. 187-204
5. Paolo Maggi e Riccardo Sisto, "A Configurable Mobile Agent Data Protection Protocol", Proceedings Second International Joint Conference on Autonomous Agents and Multiagent Systems (AAMAS 2003), Melbourne, Australia, 14-18 July 2003
6. Xavier Hannotin, Paolo Maggi e Riccardo Sisto, "Using Process Algebras to Formally Specify Mobile Agent Data Integrity Properties: a Case Study", WOA 2001 - Dagli oggetti agli agenti - Tendenze evolutive dei Sistemi Software, Andrea Omicini and Mirko Viroli, Pitagora Editrice Bologna, September 2001 (published on CD-ROM with ISBN 88-371-1272-6)
7. Paolo Maggi e Riccardo Sisto, "Experiments on Formal Verification of Mobile Agent Data Integrity Properties", WOA 2002 - Dagli oggetti agli agenti - Dall'Informazione alla Conoscenza, Flavio De Paoli, Sara Manzoni and Agostino Poggi, Pitagora Editrice Bologna, November 2002 (published on CD-ROM with ISBN 88-371-1363-3)
8. Paolo Maggi e Marco Presenti Gritti, "Software: Gnome 2.0, il ritorno della scimmia", Linux & C., Anno 4, N° 27
9. Luigi Ciminiera, Paolo Maggi e Riccardo Sisto, "Implementing Innovative Services Supporting User and Terminal Mobility: the SCARAB Architecture", to be published on Journal of Systems and Software (Elsevier Science)

REFERENCES

Available upon request

