

# Marco Volpe

Department of Mathematics  
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## Current Position

Postdoctoral Research Associate, Department of Mathematics, Instituto Superior Técnico (IST) - Lisbon.

## Education

Ph.D. Computer Science, University of Verona, 2010.

Dissertation: Labeled Natural Deduction for Temporal Logics.

Supervisor: Prof. Luca Viganò.

Committee: Carlos Caleiro, Stéphane Demri, Andrea Masini, Angelo Montanari.

Laurea in Informatica (Computer Science, 5 years degree), University of Rome “La Sapienza”, 2006.

Honors: 110/110.

Dissertation: Linear Logic and Locative Quantifiers.

Supervisor: Prof. Stefano Guerrini.

Liceo Scientifico, Istituto G. Braschi, Subiaco (Rome), 1999.

Honors: 100/100.

## Academic Experience

Instituto Superior Técnico (IST) - Lisbon, Department of Mathematics

Postdoctoral Research Associate, March 2011-Present.

University of Verona, Department of Computer Science

Postdoctoral Research Associate, May 2010-February 2011.

Ph.D. Student, January 2007-May 2010.

## Research

### Research Interests

Theory of Computation

Mathematical Logic

Modal and Temporal Logic

Proof Theory

## Information Security

## Publications

## Conference and Workshop Papers

- Andrea Masini, Luca Viganò and Marco Volpe. A History of Until. In Thomas Bolander and Torben Braüner, editors, Proceedings of the 6th workshop on Methods for Modalities (M4M-6), volume 262 of Electronic Notes in Theoretical Computer Science, pages 189-204, 2010.
- Andrea Masini, Luca Viganò and Marco Volpe. A Labeled Natural Deduction System for a Fragment of CTL\*. In Sergei N. Artëmov and Anil Nerode, editors, Proceedings of the 2009 Symposium on Logical Foundations of Computer Science (LFCS '09), volume 5407 of Lecture Notes in Computer Science, pages 338-353. Springer, 2009.
- Luca Viganò and Marco Volpe. Labeled Natural Deduction Systems for a Family of Tense Logics. In Stéphane Demri and Christian S. Jensen, editors, Proceedings of the 16th International Symposium on Temporal Representation and Reasoning (TIME-2008), pages 118-126. IEEE Computer Society, 2008.

## Journal Papers

- Andrea Masini, Luca Viganò and Marco Volpe. Labeled Natural Deduction for a Bundled Branching Temporal Logic. Journal of Logic and Computation, 2010 (doi: 10.1093/logcom/exq028).
- Andrea Masini, Luca Viganò and Marco Volpe. Back From the Future. Journal of Applied Non-Classical Logics, vol.20/3, pp. 241-277, 2010.

## Projects

- Deduction systems for temporal logics and their applications to information security, Department of Computer Science, University of Verona, March 2010-Present.
- SOFT: Security Oriented Formal Techniques, Department of Computer Science, University of Verona, September 2007-Present.
- Temporal logics for the formal analysis of protocols and web services for information security in the context of the European Project AVANTSSAR: Automated Validation of Trust and Security of Service-oriented Architectures, Department of Computer Science, University of Verona, January 2009-December 2009.

## Conference and Seminar Presentations

## A History of Until

6th workshop on Methods for Modalities (M4M-6), Copenhagen (Denmark), November 13, 2009.

## Labeled Natural Deduction for Temporal Logics

Centro De Giorgi, Pisa (Italy), April 10, 2009.

## A Labeled Natural Deduction System for a Fragment of CTL\*

Symposium on Logical Foundations of Computer Science (LFCS '09), Deerfield Beach, Florida (U.S.A.), January 5, 2009.

Department of Mathematics, Instituto Superior Técnico, Lisbon (Portugal), February 6, 2009.

## Labeled Natural Deduction Systems for a Family of Tense Logics

16th International Symposium on Temporal Representation and Reasoning (TIME-2008), Montreal (Canada), June 17, 2008.

## Conferences and Workshops Attended

6th workshop on Methods for Modalities (M4M-6), Copenhagen (Denmark), November 12-14, 2009.

Symposium on Logical Foundations of Computer Science (LFCS '09), Deerfield Beach, Florida (U.S.A.), January 3-6, 2009.

16th International Symposium on Temporal Representation and Reasoning (TIME-2008), Montreal (Canada), June 16-18, 2008.

## Schools Attended

FIRST Autumn School on Modal Logic, Copenhagen (Denmark), November 10-11, 2009.

European Summer School in Logic, Language and Information ESSLLI 2008, University of Hamburg (Germany), August 4-15, 2008.

Introduction to Engineering and Formal Methods for Information Security, University of Verona (Italy), September 11-18, 2007.

## Visits

Department of Mathematics, Instituto Superior Técnico, Lisbon (Portugal), January-March 2009.

Department of Computer Science, University of Wales, Aberystwyth (Wales), January-June 2004.

(Visits shorter than two weeks are omitted.)

## Teaching Experience

Teacher of the course Fundamentals of Software Engineering, Master in Game Development, Department of Computer Science, University of Verona, October 2010-January 2011.

Student Tutor for the course Software Architectures, Department of Computer Science, University of Verona, January 2008-June 2008.

Student Tutor for the course Programming Languages II, Department of Computer Science, University "La Sapienza", Rome, October 2005-January 2006.

Student Tutor for the course Programming Languages I, Department of Computer Science, University "La Sapienza", Rome, October 2004-January 2005.

## Languages Spoken

Italian: mother tongue.

English: very good (spoken and written).

Portuguese: basic (spoken and written).

## Computer Skills

Operating Systems: Unix, Windows.

Programming Languages: Java, C, Pascal, Prolog, ML, SQL, Php.

Modeling Languages: UML.

Database Management Systems: PostgreSQL, MySQL.

Last updated: June 24, 2011