

# CURRICULUM VITAE

***Marco Biazzi***

## Personal Information

<b>Birth date and Place</b>	01 Jan 1976 – Moncalieri (TO), Italy
<b>Nationality</b>	Italian
<b>Title</b>	Ph.D.
<b>Desk Address</b>	INRIA – Bretagne Atlantique Campus de Beaulieu 35042 Rennes Cedex France
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## Education

2010	<b>PhD in Information and Communication Technologies</b> <ul style="list-style-type: none"><li>• <i>Institution</i> : Università di Trento – DISI</li><li>• <i>Thesis title</i> : Gossiping Optimization Framework. A decentralized P2P architecture for function optimization</li><li>• <i>Advisor</i> : Prof. Alberto Montresor</li></ul>
2008	Visiting student at University of Szeged (HU) Collaboration with Dr. Mark Jelasity Main research topic : distributed hyper-heuristics based on gossip protocols
2006	Summer School: Next Generation Computing Systems Place: Athens Information Technology (Athens – Greece)
2005	Ph.D. Student at the International Doctorate School of the University of Trento – Department of Engineering and Computer Science. Attended courses (selected) : Efficient Boolean reasoning, Empirical Methods for the Analysis and Design of Algorithms, Entrepreneurship, Peer-To-Peer (P2P) Overlay Networks: Systematic Design and Practical Implementations, Statistical Machine Learning, Text and Content Processing, Web Information Retrieval, Stochastic Local Search.

- 2005      **MS in Computer Science**      (110/110 *cum laude*)
- *Institution* : Università Ca' Foscari – Venezia
  - *Dissertation title* : Web Application Frameworks : stato dell'arte, problemi, prospettive (Web Application Frameworks : state of the art, problems, prospects)
  - *Supervisor* : Prof. Alberto Pravato
- 2003      **Bachelor in Computer Science**      (110/110 *cum laude*)
- *Institution* : Università Ca' Foscari – Venezia
  - *Dissertation title* : Una libreria di funzioni per l'estrazione di caratteristiche dalle immagini digitali (A software library to extract features from digital images)
  - *Supervisor* : Prof. Augusto Celentano
- 1997      Attended courses of the Faculty of Philosophy
- *Institution* : Università Lateranense – Roma
  - *Acquired knowledge* : History of Philosophy, Philosophy of Language, Philosophy of Science, Anthropology, Elements of Psychology
- Dismissed in 1999.

## Professional experience

- 2012-      Post-Doctorate
- *Institution* : INRIA – Bretagne Atlantique – Equipe Triskell
  - *Task* : Quantitative characterization of successful open source software projects through data mining and ecology-inspired data analysis techniques.
- 2011-2012      Post-Doctorate
- *Institution* : University of Nantes, Francia – LINA-GDD. Distributed Systems research group.
  - *Task* : Design of distributed algorithms to manage and exploit the user preferences in P2P applications, while preserving the data privacy the same user agreed upon. The task is assigned within the “P2P Web” project ([www.images-et-reseaux.com/en/les-projets/fiche-projets-finances.php?id=257](http://www.images-et-reseaux.com/en/les-projets/fiche-projets-finances.php?id=257)).
- 2009-2011      Research and development
- *Institution* : University of Trento – DISI. Networking research group.
  - *Task* : Design and development of gossip protocols to support real time P2P audio/video streaming for the NAPA-WINE project (EU Seventh Framework Programme, ICT Call 1 FP7-ICT-2007-1)
- 2004-2006      Temporary Collaboration
- *Company* : ShP (Software House Padovana).
  - *Task* : Event driven UI and applications. Development of small industrial applications for human-machine interaction, written in C++, using Standard MFC Libraries, for Microsoft Windows OS.

## Research

Main interests :

- Empirical analysis of Git-based software repositories (see <http://github.com/marbiaz/GitWorks>)
- P2P algorithms for user preferences elicitation (see <http://github.com/marbiaz/WhatUsersWant>)
- Design and implementation of distributed function optimization algorithms (see <http://p2poem.sf.net>)
- Distributed decentralized processing in a peer-to-peer fashion (see <http://cloudware.sf.net>)

**PC Member** of GECCO (ACM Genetic and Evolutionary Computation Conference) since 2010.

Recently I served as reviewer upon request for the following international journals:

- IEEE Transactions on Evolutionary Computation – 2013
- Elsevier's Future Generation Computing Systems Journal – 2012 - 2013
- Springer's Computing – 2012 SI: Extreme Distributed Systems
- NaCo : Natural Computing Journal – 2012
- JOSH : Journal of Scheduling – Volume 13 / 2010
- AMAI : Annals of Mathematics and Artificial Intelligence – Volume 57 / 2009

## Selected Publications

A complete list is available at my home page : <http://people.irisa.fr/Marco.Biazzini>

*M. Biazzini, M. Brunato, A. Montresor*

Towards a Decentralized Architecture for Optimization.

*IPDPS 2008 – 22<sup>nd</sup> International Parallel and Distributed Processing Symposium.* April 2008.

*B. Banhelyi, M. Biazzini, A. Montresor, M. Jelasity*

Peer-to-peer Optimization in Large Unreliable Networks with Branch-and-Bound and Particle Swarms.

*EvoCOMNET 2009 – 6<sup>th</sup> European Workshop on the Application of Nature-inspired Techniques for Telecommunication Networks and other Parallel and Distributed Systems.* April 2009.

*M. Biazzini, B. Banhelyi, A. Montresor, M. Jelasity*

Distributed Hyper-Heuristics for Real Parameter Optimization.

*GECCO 2009 – Genetic and Evolutionary Computation Conference.* July 2009.

*L. Abeni, A. Bakay, M. Biazzini, R. Birke, E. Leonardi, R. Lo Cigno, C. Kiraly, M. Mellia, S. Niccolini, J. Seedorf, T. Szemethy and G. Tropea*

Network Friendly P2P-TV: The Napa-Wine Approach,

*IEEE P2P 2010.* August 2010

*M. Biazzini, A. Montresor*

Gossiping Differential Evolution: a decentralized heuristic for function optimization in P2P networks

*ICPADS '10 : 16<sup>th</sup> Intern. Conference On Parallel and Distributed Systems.* December 2010

*M. Biazzini, A. Montresor*

P2POEM: Function optimization in p2p networks

Peer-to-Peer Networking and Applications -- June 2013, Volume 6, Issue 2, pp 213-232.

( <http://dx.doi.org/10.1007/s12083-012-0152-8> )

## Teaching

- 2010 Teaching assistant at Università di Trento, department of Computer Science. Course: Algorithms and Data Structures (70 hours)
- 2009 Teaching assistant at Università di Trento, department of Computer Science. Course: Algorithms and Data Structures (100 hours)
- 2007 Teaching assistant at Università di Trento, department of Computer Science. Course: Algorithms and Data Structures (70 hours)
- 2006 Teaching at Università di Trento – SSIS. Course: “Didattica per la soluzione dei problemi ed algoritmi” (Didactics for problem solving and algorithmics) (20 hours).
- 2006 Teaching assistant at Università di Trento, department of Computer Science. Course: Algorithms and Data Structures (70 hours)
- 2004 Teaching assistant at Università Ca’ Foscari – Venezia, department of Computer Science. Course: Computer Architecture (20 hours)
- 2003 Teaching assistant at Università Ca’ Foscari – Venezia, department of Computer Science. Course: Computer Architecture (20 hours)
- 2002 Teaching assistant at Università Ca’ Foscari – Venezia, department of Computer Science. Course: Software Engineering (35 hours)
- 2001 Teaching assistant at Università Ca’ Foscari – Venezia, department of Computer Science. Course: Software Engineering (35 hours)

## Various

**S/W development:** Java (Servlet, JSP, JDBC)  
SVN, Git, JGit  
Bash scripting  
C, C++, MS Visual C++ (MFC)

**Operative Systems:** Linux, MS Windows

**Languages :** Italian (mother language)  
English (fluent, both written and spoken)  
French (basic)

## Other activities

**Hobbies :** Desperately looking for time to practice some of the following...  
Reading (English and Italian essays, reviews and novels)  
Singing and playing guitar  
Practicing sports (as amateur) : tennis, volleyball, ski, gym.