



Francesco Adalberto Bianchi

Personal Information

Name Francesco Adalberto Bianchi
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Nationality Italian
Date of birth 20/05/1988

Education

2012–2014 **Master's degree in Computer Science**, *University of Milan-Bicocca*, Milan.
2007–2012 **Bachelor's degree in Computer Science**, *University of Milan-Bicocca*, Milan.
2002–2007 **High School Diploma**, *Liceo Scientifico Statale Paolo Frisi*, Monza.

Masters Thesis

Title *Study, design and evaluation of a technique for storing and reusing satisfiability proofs using MapReduce paradigm.*
Supervisors Professor Mauro Pezzè & Professor Giovanni Denaro
Description The project aimed to reduce the impact of constraint solving techniques that represent the main bottleneck for verification approaches. The basic idea of this work is that constraints can occur many times during the same or different analysis; for this reason we proposed a technique for storing and reusing satisfiability proofs, aiming to improve the actual constraint solvers performance.

Bachelors Thesis

Title *A concurrent simulator for Petri Nets based on the paradigm of Actors of Hewitt.*
Supervisors Professor Lucia Pomello & Dr. Luca Bernardinello
Description The goal of this project was to design and implement a concurrent simulator for Petri Nets written in Scala, an object-oriented programming language built over Java. Scala implements concurrency through the paradigm of Actors of Hewitt and during the project a series of experiments have been made in order to compare the degree of concurrency offered by Java threads and Scala actors.

Main courses

- Master's degree Software and Data Architecture, Software Quality, Reverse Engineering, Digital Logic, Machine Learning, Telecommunication Systems and Services, Information Retrieval, Software Development Process
- Bachelor's degree Algorithms and data structures, Computer Architecture, Database, Software Engineering, Distributed Systems, Networks, Operating Systems, Formal Methods, Artificial Intelligence

Computer skills

- Programming language Java, Scala, C++, Objective-C
- Web programming Html, CSS, PHP (basic)
- Database systems PostgreSQL, MySQL
- Other technologies Apache Hadoop, MapReduce, Pig Latin
- Type Setting L^AT_EX, MS Office
- Operating Systems Windows, Mac OS X, Linux (basic)

Publications

- 2012 Luca Bernardinello, Francesco Adalberto Bianchi: *A Concurrent Simulator for Petri Nets Based on the Paradigm of Actors of Hewitt*. PNSE 2012: 217-221

Communication and teamwork skills

- 2013 - 2014 Collaboration with Ph.D. students at the Università della Svizzera italiana for the SFN project CloSE
- 2012 Poster presentation at PNSE 2012 in Hamburg (Germany)
- 2007 - 2012 Several academic projects I made, teamworking with colleagues

Languages

- Italian **Mother tongue**
- English **Intermediate** *Conversationally fluent and excellent reading and listening skills*