

## PERSONAL INFORMATION

## Tommaso Papini

33, Via Poggio alla Croce, 50063, Figline e Incisa  
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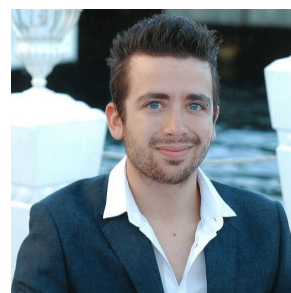
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<https://www.linkedin.com/in/tommaso-papini/>

Skype tommy39ita

Gender Male | Date of birth 30 September 1990

Nationality Italian



## JOB APPLIED FOR Software Development &amp; Research

## WORK EXPERIENCE

## June 2016 – Oct 2016 Research Fellow

University of Florence (Italy)  
Faculty of Engineering, Department of Information Engineering  
Model based quantitative analysis for non-Markovian systems

## Oct 2013 – Nov 2014 Technical Student Internship

CERN, Route de Meyrin 385, 1217 Meyrin (Switzerland)  
Web developer for the Indico Knowledge Transfer Project, a project aimed to increased the worldwide impact of Indico. Indico is a web-application for event organization

## EDUCATION AND TRAINING

## Nov 2016 – Present PhD in Smart Computing

ISCED 8

Universities of Florence, Pisa and Siena (Italy)  
Faculty of Engineering, Department of Information Engineering

Courses GPU Programming Basics

Thesis Model-based quantitative analysis for on-line diagnosis, prediction, scheduling and compliance evaluation in partially observable systems - [https://github.com/oddlord/phd-sc-research-project/raw/master/research\\_project.pdf](https://github.com/oddlord/phd-sc-research-project/raw/master/research_project.pdf)

## Dec 2012 – Apr 2016 Master in Computer Science

ISCED 7

University of Florence (Italy)  
Faculty of Maths, Physics and Natural Sciences

Courses Design and Analysis of Algorithms, Data Warehousing, Non-standard Architectures, Foundations of Programming Languages, Quantitative Analysis of Systems, Advanced Numerical Analysis, Models of Sequential and Concurrent Systems, Human Computer Interaction, Information Retrieval and Semantic Web Technologies, Machine Learning, Verification and Testing Methods, Data Mining, Information Theory

- Projects – *Rankboost*: C++ implementation of the learning-to-rank algorithm Rankboost. Included in the Quickrank tool developed at HPC Lab, ISTI, CNR - <https://github.com/hpclab/quickrank>
- *MRP steady-state*: Java implementation of an algorithm for steady-state probabilities computation for Markov Regenerative Processes. Included in the Oris tool developed at STLab, University of Florence - [https://github.com/trianam/mvt/raw/master/steady\\_state\\_MRP.pdf](https://github.com/trianam/mvt/raw/master/steady_state_MRP.pdf)
- Thesis The Indico KT Project: Improving the worldwide impact of Indico - <https://github.com/oddlord/tesi-magistrale/raw/master/tesi/tesi.pdf>
- Final rank 110/110 cum laude

## Sept 2010 – July 2011 Bachelor in Computer Engineering (Erasmus) ISCED 6

Polytechnic University of Madrid (Spain)

Faculty of Computer Science

- Courses Physical and Technological Foundations of Informatics, Linear Algebra, Probability and Statistics I, Programming II, Information Technology Security, Systems Programming, Operating Systems, Databases

## Oct 2009 – Dec 2012 Bachelor in Computer Science ISCED 6

University of Florence (Italy)

Faculty of Maths, Physics and Natural Sciences

- Courses English, Algorithm and Data Structures, Real Analysis I & II, Computer Architecture, Discrete Mathematics and Mathematical Logics, Programming, Data Bases and Information Systems, Operating Systems, Physics, Probability Theory and Statistics, Concurrent Programming, Programming Methodologies, Linear Algebra, Computing and Management, Models and Calculi for Physics, Artificial Intelligence, Coding Theory and Computer Security, Theoretical Computer Science, Numerical Analysis, Computer Networks

- Projects – *Cerithidea Decollata*: neural network to simulate intertidal snails predicting the incoming tide - <https://github.com/oddlord/cerithidea-decollata-model/raw/master/CerithideaModel.pdf>

- Thesis Algorithm Visualization in HTML5 - <https://github.com/oddlord/tesi-triennale/raw/master/tesi.pdf>

Final rank 110/110 cum laude

## Sept 2004 – July 2009 Scientific High School ISCED 3

State Institute of Higher Education *Giorgio Vasari*, Figline e Incisa Valdarno (Italy)

National Plan of Computer Studies (PNI)

Final rank 76/100

### PERSONAL SKILLS

Mother tongue Italian

Other languages

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
English	B2	C1	B2	C1
Spanish	B2	C1	B2	C1

Levels: A1/A2: Basic user – B1/B2: Independent user – C1/C2: Proficient user

Common European Framework of Reference (CEF) level

**Communication skills** I have worked both in research teams and development teams

**Organisational / managerial skills** During my PhD and my research activity I supervised several students both for exam projects and thesis research

**Computer skills**

- programming languages: Java, C, C++, Python, Javascript, Matlab, SQL, shell scripting, MIPS assembler, declarative programming,  $\lambda$ -calculus
- markup languages: HTML5, XML, CSS
- modeling languages: Petri Nets, UML, IDEF0
- tools & software: Jinja2, Git, Github, QEMU, VirtualBox, SASS, Eclipse, Windows, Linux, dotfiles, Python Fabric, Jekyll, LaTeX

**Other skills** Playing the electric guitar and listening to music. Training as a boxer and doing sports in general. Reading books of various nature. Passion for science. Love to travel and experience different cultures

**Driving licence** B (car owner)

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**ADDITIONAL INFORMATION**

**References**

- Prof. Enrico Vicario, University of Florence (Italy)
- Prof. Pierluigi Crescenzi, University of Florence (Italy)
- Prof. Gregorio Landi, University of Florence (Italy)
- Pedro Ferreira, CERN, Geneva (Switzerland)

**Other projects**

- *Blindstore*: private information retrieval data store. Best Technology winning project at CERN Summer Student Webfest 2014 & participant of The Port Hackathon 2014 @CERN - <http://blindstore.github.io/>

**Publications**

- Stefano Martina, Marco Paolieri, Tommaso Papini, and Enrico Vicario. Performance evaluation of fischer's protocol through steady-state analysis of markov regenerative processes. In *Modeling, Analysis and Simulation of Computer and Telecommunication Systems (MAS-COTS), 2016 IEEE 24th International Symposium on*, pages 355–360. IEEE, 2016