europass Curriculum vitae

PERSONAL INFORMATION

Tommaso Papini

33, Via Poggio alla Croce, 50063, Figline e Incisa Valdarno (FI), Italy

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Gender Male | Date of birth 30 September 1990 | Nationality Italian

JOB APPLIED FOR

Software Development & Research

WORK EXPERIENCE

June 2017

Secondment

Ageing Lab Foundation & University of Jaén (Spain)

Department of Computer Science

REMIND project for the use of computational techniques to improve compliance to reminders within smart environments. Knowledge transfer between the Universities of Florence and Jaén in order to share experiences on techniques for Activity Recognition (especially based on fuzzy logic and stochastic models) and on the creation of AR datasets.

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, Fuzzy Logic & Fuzzy Systems, Summer School on “Optimization, Big Data and Applications” (OBA)

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`

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`

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	C1
Spanish	B2	C1	B2	C1	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, λ-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 guitar and listening to music. Training (mainly 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 A, B (car and motorbike owner)

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 (MASCOTS), 2016 IEEE 24th International Symposium on*, pages 355–360. IEEE, 2016
- Marco Biagi, Laura Carnevali, Marco Paolieri, Tommaso Papini, and Enrico Vicario. Exploiting non-deterministic analysis in the integration of transient solution techniques for markov regenerative processes. In *International Conference on Quantitative Evaluation of Systems*, pages 20–35. Springer, 2017
- Marco Biagi, Laura Carnevali, Tommaso Papini, Kumiko Tadano, and Enrico Vicario. An inspection-based compositional approach to the quantitative evaluation of assembly lines. In *European Workshop on Performance Engineering*, pages 152–166. Springer, 2017