

Europass Curriculum Vitae



Personal information

Surname(s) / First name(s)

Address(es)

Telephone(s)

Email(s)

Nationality(-ies)

Date of birth

Gender

Website

Linkedin

Borassi Michele

Piazza S. Francesco, 19 - 55100 Lucca (LU), Italy

+39 333 7232971

michele.borassi@imtlucca.it

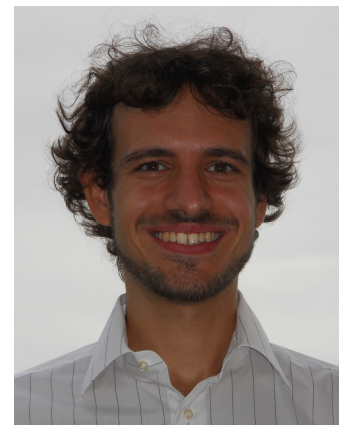
Italian

18/05/1989

Male

<https://sites.google.com/a/imtlucca.it/borassi>

<https://it.linkedin.com/pub/michele-borassi/b6/934/421>



Education and training

Dates

Title of qualification awarded

Principal subjects/Occupational skills covered

Name and type of organization providing education and training

Level in national or international classification

November 2013 - Today

PhD in Computer Science - Expected in 2016

Computer, Decision and System Sciences - Curriculum: Computer Science

[IMT Institute for Advanced Studies Lucca](#), Italy

On admission: 1st out of 2,497 applicants

"A" mark in all exams

Dates

Title of qualification awarded

Principal subjects/Occupational skills covered

Name and type of organization providing education and training

Level in national or international classification

September 2011 - February 2014

Diploma di Licenza (Second Level Diploma)

Mathematics - Title of dissertation: *Algoritmi di enumerazione e complessità (Enumeration Algorithms and Complexity)* - Supervisor: Prof. P. Crescenzi

[Scuola Normale Superiore \(SNS\)](#), Italy

70/70 *cum laude*

Dates

Title of qualification awarded

Principal subjects/Occupational skills covered

Name and type of organization providing education and training

Level in national or international classification

September 2011 - April 2013

Laurea Magistrale (Master Degree)

Mathematics - Thesis title: *Telling Stories: Enumerating Maximal Directed Acyclic Subgraphs with a Specified Set of Sources and Targets* - Supervisor: Prof. P. Crescenzi

[Department of Mathematics, Pisa University](#), Italy

110/110 *cum laude*, 30/30 *cum laude* in all exams, except one (30/30)

Dates

Title of qualification awarded

Principal subjects/Occupational skills covered

September 2008 - July 2011

Diploma di Primo Livello (First Level Diploma)

Mathematics - Topic of 3rd year dissertation: *L'aritmetica di Presburger (Presburger Arithmetic)* - Supervisor: Prof. A. Berarducci

Name and type of organization providing education and training

[Scuola Normale Superiore \(SNS\)](#), Italy

Dates

September 2008 - July 2011

Title of qualification awarded

Laurea Triennale (Bachelor Degree)

Principal subjects/Occupational skills covered

Mathematics - Thesis title: *Zilber's Trichotomy Theorem* - Supervisor: Prof. A. Berarducci

Name and type of organization providing education and training

[Department of Mathematics](#), [Pisa University](#), Italy

Level in national or international classification

110/110 *cum laude*

Work experience

Dates

September 2012 - July 2013

Occupation or position held

Collaborating student for 290 hours

Main activities and responsibilities

SNS network management, configuration of server using ASP language, hardware and software management, ordinary and extraordinary technical reparations

Name and address of employer

[Area IT](#)

Type of business or sector

Hardware and software support for Scuola Normale Superiore

Personal skills and competences

Mother tongue(s)

Italian

Other language(s)

*Self-assessment
European level^(*)*

English

French

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user
B1	Independent user	B1	Independent user	B1	Independent user	B1	Independent user	B1	Independent user

^(*)Common European Framework of Reference (CEF) level

Computer skills and competences

Experience in the development of high-quality, robust software, in an Agile Development framework, and in the development of documentation and automated tests, in order to reduce technical debt ([Google Summer of Code 2015](#)).

Excellent programming skills in Java, C, C++, and Python, developed during my Master Degree and my PhD. These skills are testified by several publications related to the implementation of state-of-the-art algorithms, by my participation at [Google Summer of Code 2015](#), and by several unpublished works on [my personal web page](#).

Experience with integration of multiple programming languages.

Excellent knowledge of \LaTeX tools (I am currently maintaining a Beamer template for IMT presentations).

Sufficient programming skills in Bash.

Social skills and competences

Excellent competence in presentations, talks, and seminars, developed during conferences ([SEA 2013](#), [FUN 2014](#), and [ESA 2015](#)), and seminars (in [SNS](#), [Unipi](#), [IMT](#), [Université Paris 7](#)).

Commitment to team work, as testified by my publications and by cooperation with other students, to write [notes](#), prepare exams, and deepen topics.

Technical skills and competences

Research-level knowledge of algorithms, data structures, and complexity.

Research-level knowledge of graph theory, graph models, and probability, with a specific focus on real-world graphs, and probabilistic analyses of algorithms.

Organisational skills and competences

Expertise in managing complex problems, respect deadlines, and team work.

Additional information

Publications

Elisabetta Bergamini, Michele Borassi, Pierluigi Crescenzi, Andrea Marino, and Henning Meyerhenke. Computing Top-k Closeness Centrality Faster in Unweighted Graphs.

In *Proceedings of the 18th Meeting on Algorithm Engineering and Experiments (ALENEX)*, 2016. To appear.

Michele Borassi, Pierluigi Crescenzi, and Andrea Marino.

Fast and Simple Computation of Top-k Closeness Centralities. *Preprint on arXiv*, 2015.

Michele Borassi, Alessandro Chessa, and Guido Caldarelli.

Hyperbolicity measures “Democracy” in Real-World Networks. *Physical Review E*, 2015.

Michele Borassi, Pierluigi Crescenzi, and Michel Habib.

Into the Square - On the Complexity of Some Quadratic-Time Solvable Problems. In *Proceedings of the 16th Italian Conference on Theoretical Computer Science (ICTCS)*, 2015.

Michele Borassi, David Coudert, Pierluigi Crescenzi, and Andrea Marino.

On Computing the Hyperbolicity of Real-World Graphs. In *Proceedings of the 23rd European Symposium on Algorithms (ESA)*, 2015.

Michele Borassi, Pierluigi Crescenzi, Michel Habib, Walter Kosters, Andrea Marino, and Frank Takes. Fast Diameter and Radius BFS-based Computation in (Weakly Connected) Real-World Graphs - With an Application to the Six Degrees of Separation Games.

Theoretical Computer Science, Special Issue - Fun with Algorithms, 2014.

Michele Borassi, Pierluigi Crescenzi, Michel Habib, Walter Kosters, Andrea Marino, and Frank Takes.

On the Solvability of the Six Degree of Kevin Bacon Game - A Faster Graph Diameter and Radius Computation Method.

In *Proceedings of the Seventh International Conference on Fun with Algorithms (FUN)*, 2014.

Paulo Vieira Milreu, Vicente Acuna, Etienne Birmelé, Michele Borassi, Ludovic Cottret, C. Junot, C. Klein, Alberto Marchetti-Spaccamela, Andrea Marino, Leen Stougie, Fabien Jourdan, Vincent Lacroix, Pierluigi Crescenzi, and Marie-France Sagot.

Telling metabolic stories to explore metabolomics data: a case study on the yeast response to cadmium exposure.

Bioinformatics, 2014.

Michele Borassi, Pierluigi Crescenzi, Vincent Lacroix, Andrea Marino, Marie-France Sagot, and Paulo Vieira Milreu.

Telling Stories Fast Via Linear-Time Delay Pitch Enumeration.

In *Proceedings of the 12th International Symposium on Experimental Algorithms (SEA)*, 2013.

Awards

Winner of 2008 [Italian Math Olympiad](#) (with the same score as other three contestants).

Bronze medal in 2008 [Italian Physics Olympiad](#).

World Othello Champion in 2008, runner-up in 2010, 4th place in 2015, European Champion in 2008, Italian Champion in 2005, 2006, 2007, 2008, 2010, 2012, 2013, 2014.

Personal interests

Othello: a board game (see <http://www.worldothello.org/> for more information).

Other board games: Shogi, Mancala, Go, Gomoku.

Athletics: competitive level for [Atletica Riccardi](#) club (Milan) from 2004 to 2008.

Nineteenth Century European Dance of Society, with [Società di Danza](#), [Circolo Pisano](#).

Other

Member of the project [LASAGNE](#) (Laboratory of Algorithms, models, and Analysis of Graphs and Networks).