

# Matteo Giorgi

## Curriculum Vitæ

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## BIO & EDUCATION

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**BIRTH** Born in Pisa (Italy), 18 June 1987

**HIGH SCHOOL** Diploma Maturità scientifica, *Liceo Scientifico F. Enriques* (Livorno)

**UNIVERSITY** Studies in mechanics at the Department of Mechanical Engineering, *University of Pisa*

Currently studying at the *University of Pisa* for *B.Sc. in Computer Science* with an expected final mark of 110L/110L

## AREAS OF INTEREST

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I am very keen on programming languages and I often learn some new language trying to improve my skills; this has made me focused on *Functional programming* and *Category theory*, experimenting with uncommon languages such as *Haskell*, *Ocaml* and *Scala*.

I also grew interests in *Lattice Theory* because of its implications in elliptic-curve cryptography and post-quantum cryptography.

In recent times I explored the world of quantitative finance, studying *Mathematical finance* and financial derivative pricing.

## EXPERIENCES & PROJECTS

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**CNR PROJECT** I had an experience, together with a colleague of mine, as a *Python* programmer inside the *CNR* offices in Pisa helping realize a scale model for blind people. The project was under the supervision of Doctor Furfari from *CNR* and Professor Pelagatti from *UniPi*.

**LAB ASSISTANT** I worked together with Professor Pelagatti as lab assistant for the *C* laboratory exam at *B.Sc. in Physics*.

**RSA PAPER** Under the supervision of Professor Romani from *UniPi*, I wrote a paper regarding the attacks that exploit the *RSA* cryptosystem vulnerabilities. I focused specifically on *Wiener Attack* and its use of continued fractions for the factorization of the *RSA* module.

**SYSTEM CONFIG** I am keeping all my *GNU/Linux* scripts and configuration files, written over time, in a public repository so that everyone can access, change and update quickly their system configuration.

**DISSERTATION** I am currently writing my B.Sc. dissertation on the use of non-linear programming for portfolio optimization under the supervision of Professor Passacantando from *UniPi*.

## COMPETITIVE SPORTS

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**SAILING** I have more than 10 years of sailing activity at both national and international level in Optimist, 420 and 470 class. I won one national ranking list and qualified other four times among the first ten italian juniors. As a member of the italian national team, I competed in 1 world championship (China), 3 european championships (Portugal, Ireland, Italy) and 1 european team championship (Germany) where I classified as vice-champion. Of all the regattas I won, the most prestigious are *Young Barcolana*, *Mediterranean Cup* and *Trofeo Accademia navale juniors*; plus I took part in the two largest sailing event in the world: *Kiel Week* and *Barcolana*.

**RUNNING** I started as a middle-distance runner then moved to long distance, specialising in 10km and half-marathon. Sometime I took the time to do few ultra-marathon competitions, one over all the *Etna Marathon*: an over 42km long race at 2000m msl on the volcano Etna.

## PROGRAMMING & SOFTWARE

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**LANGUAGES** *C*, *C++*, *Scheme*, *Haskell*, *OCaml*, *Go*, *Python*, *Javascript*, *Bash*, *AWK*, *Java*, *Scala*, *R*, *Julia*

**UNIX** *GNU/Linux* and *FreeBSD* system management, *C* system programming, good knowledge of *POSIX* standard

**TOOLS** Experience with various software such as *Vim*, *Emacs*, *Git*, *T<sub>E</sub>X* e *L<sub>A</sub>T<sub>E</sub>X* *Matlab* and *Wolfram Mathematica*

**EXTRA** Knowledge of *Sql*, *HTML* and *CSS*

## LANGUAGES

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**ITALIAN** Mother tongue

**ENGLISH** Advanced use in speaking and writing, *Cambridge C1 Advanced (IELTS 7.0)*

**FRENCH** Basic understanding in speaking and writing, *DELF A2* certification