

Matteo Giorgi

Curriculum Vitae

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BIO & EDUCATION

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| BIRTH | Born in Pisa (Italy), 18 June 1987 |
| HIGH SCHOOL | Diploma Maturità scientifica, <i>Liceo Scientifico F. Enriques</i> (Livorno) |
| UNIVERSITY | Studies in mechanics at the Department of Mechanical Engineering, <i>University of Pisa</i> Currently studying at the <i>University of Pisa</i> for <i>B.Sc. in Computer Science</i> with an expected final mark of 110L/110L |

AREAS OF INTEREST

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

PROGRAMMING & SOFTWARE

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| LANGUAGES | <i>C</i> , <i>C++</i> , <i>Scheme</i> , <i>Haskell</i> , <i>OCaml</i> , <i>Go</i> , <i>Python</i> , <i>Javascript</i> , <i>Bash</i> , <i>AWK</i> , <i>Java</i> , <i>Scala</i> , <i>R</i> , <i>Julia</i> |
| UNIX | <i>GNU/Linux</i> and <i>FreeBSD</i> system management, <i>C</i> system programming, good knowledge of <i>POSIX</i> standard |
| TOOLS | Experience with various software such as <i>Vim</i> , <i>Emacs</i> , <i>Git</i> , <i>T_EX</i> e <i>L_AT_EX</i> <i>Matlab</i> and <i>Wolfram Mathematica</i> |
| EXTRA | Knowledge of <i>Sql</i> , <i>HTML</i> and <i>CSS</i> |

LANGUAGES

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| ITALIAN | Mother tongue |
| ENGLISH | Advanced use in speaking and writing, <i>Cambridge C1 Advanced (IELTS 7.0)</i> |
| FRENCH | Basic understanding in speaking and writing, <i>DELTA A2</i> certification |

EXPERIENCES & PROJECTS

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| CNR PROJECT | I had an experience, together with a colleague of mine, as a <i>Python</i> programmer inside the <i>CNR</i> offices in Pisa helping realize a scale model for blind people. The project was under the supervision of Doctor Furfari from <i>CNR</i> and Professor Pelagatti from <i>UniPi</i> |
| LAB ASSISTANT | I worked together with Professor Pelagatti as lab assistant for the <i>C</i> laboratory exam at <i>B.Sc. in Physics</i> |
| RSA PAPER | Under the supervision of Professor Romani from <i>UniPi</i> , I wrote a paper regarding the attacks that exploit the <i>RSA</i> cryptosystem vulnerabilities. I focused specifically on <i>Wiener Attack</i> and its use of continued fractions for the factorization of the <i>RSA</i> module |
| SYSTEM CONFIG | I am keeping all my <i>GNU/Linux</i> scripts and configuration files, written over time, in a public repository so that everyone can access, change and update quickly their system configuration |
| DISSERTATION | Currently writing my B.Sc. dissertation on the use of non-linear programming for portfolio optimization under the supervision of Professor Passacantando from <i>UniPi</i> |

COMPETITIVE SPORTS

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| SAILING | I have more than 10 years of sailing activity at both national and international level. I won one national ranking list and qualified other three times among the first ten italian juniors. As a member of the italian national team, I competed in 1 word championship, 3 european championships and 1 european team championship (classified as vice-champion). Of all the regattas I won, the most prestigious are <i>Young Barcolana</i> , <i>Mediterranean Cup</i> and <i>Trofeo Accademia navale juniors</i> ; plus I took part in the two largest sailing event in the world: <i>Kiel Week</i> and <i>Barcolana</i> . |
| 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 <i>Etna Marathon</i> : an over 42km long race at 2000m msl on the volcano Etna. |